Disclaimer: Please note that only the Italian version of the present call for applications, issued with Rector's Decree 2723 dated 9.06.2023, is legally binding, the English version is provided for informational purposes only. The original Italian version is available at https://unige.it/usg/it/dottorati-di-ricerca

Course: ARCHITECTURE AND DESIGN

Curriculum: ARCHITECTURE (CODE 9842)

Course Coordinator: Giberti Massimiliano	
Department of Architecture and Design (Dipartimento di Architettura e Design - DAD)	
Places: 5 – **Grants**: 5 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 2 grants funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001250006) [1] <s>(*) 1 grant funded within D.M. 118 dated 2.3.2023 (Patrimonio culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001250006)</s> [1] (*) 1 grant cofunded by MUR/Department (DAD), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	19.07.2023 – time 9.30 The interview will be held in person.
Further information on how to present qualifications/publications	Every candidate is asked to present a research project proposal, which should be structured as follows: -research goals -research methods -innovation criteria with respect to the discipline's current scientific landscape -bibliography -research impact factor The research project proposal should contain max. 15.000 characters (excluding spaces), including the bibliography. The aforementioned project will then be evaluated by the Commission together with your qualifications and will be discussed during the oral exam. On the day of the exam, candidates can present a portfolio relating to their previous studies/research experience.
Exam Syllabus	Interview on the submitted research project, the PhD course topics, and the candidate's specific interests in the field. English language test.
Research Themes	The research topics stated below make up part of the overall evaluation and are related to the four components of the PhD course material: • Territorial Strategies Policies and Perspectives; • Theory of Design; • Strategies and technologies for sustainability andsystemic design; • Visual languages and communication. • Metaverse, Innovation of digital art and digitalization of spaces and production of digital architecture
Information on references	Letters of recommendation are not requested. Any letter of recommendation received shall not be taken into consideration.
Foreign Languages	English
Further Information	Dott.ssa Michela Mazzucchelli (+39)0102095810 dottoratodad@unige.it https://add.dottorato.unige.it/ https://architettura.unige.it/

[1] Information updated due to factual error: 1 position with grant added within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), 1 position with grant deleited within D.M. 118 dated 2.3.2023 (Patrimonio culturale)

Course: ARCHITECTURE AND DESIGN

Curriculum: DESIGN (CODE 9843)

Course Coordinator: Giberti Massimiliano	
Department of Architecture and Design (Dipartimento di Architettura e Design - DAD)	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Intervie	19.07.2023 – time 9.30 The interview will be held in person.
Further information on how to present qualifications/publications	Every candidate is asked to present a research project proposal, which should be structured as follows: -research goals -research methods -innovation criteria with respect to the discipline's current scientific landscape -bibliography-research impact factor The research project proposal should contain max. 15.000 characters (excluding spaces), including the bibliography. The aforementioned project will then be evaluated by the Commission together with your qualifications and will be discussed during the oral exam. On the day of the exam, candidates can present a portfolio relating to their previous studies/research experience.
Exam Syllabus	Interview on the submitted research project, the PhD course topics, and the candidate's specific interests in the field. English language test.
Research Themes	The research topics stated below make up part of the overall evaluation and are related to the four components of the PhD course material: • Territorial Strategies Policies and Perspectives; • Theory of Design; • Strategies and technologies for sustainability andsystemic design • Visual languages and communication
Information on references	Letters of recommendation are not requested. Any letter of recommendation received shall not be taken into consideration.
Foreign Languages	English
Further Information	Dott.ssa Michela Mazzucchelli (+39)0102095810 dottoratodad@unige.it https://add.dottorato.unige.it/ https://architettura.unige.it/

Course: ARCHITECTURE AND DESIGN

Curriculum: DESIGN (CODE 9844)

Course Coordinator: Giberti Massimiliano	
Department of Architecture and Design (Dipartimento di Architettura e Design - DAD)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded under **REGIONAL PROGRAMME EUROPEAN SOCIAL FUND+ 2021-2027 PRIORITY 2 - EDUCATION AND TRAINING - ESO 4.6 (OS-f)** in collaboration with and with the contribution of GGallery s.r.l., under condition of approval of the project and its funding; the annual amount of the grant, gross of social security charges borne by the recipient, is € 16,243. Project: New normal: macro changes in contemporary society	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	19.07.2023 – time 9.30 The interview will be held in person.
Further information on how to present qualifications/publications	Every candidate is asked to present a research project proposal, which should be structured as follows: -research goals -research methods -innovation criteria with respect to the discipline's current scientific landscape -bibliography-research impact factor The research project proposal should contain max. 15.000 characters (excluding spaces), including the bibliography. The aforementioned project will then be evaluated by the Commission together with your qualifications and will be discussed during the oral exam. On the day of the exam, candidates can present a portfolio relating to their previous studies/research experience.
Exam Syllabus	Interview on the submitted research project, the PhD course topics, and the candidate's specific interests in the field. English language test.
Research Themes	Research topics are related to the following areas: - inclusive design and web accessibility criteria; - user experience curation and user interface optimization; - opportunities and challenges of digital technologies for inclusion. Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): New normal: macro changes in contemporary society
Information on references	Letters of reference are not required. Any letters of reference however received will not be considered for scoring purposes.
Foreign Languages	English
Further Information	Dott.ssa Michela Mazzucchelli (+39)0102095810 dottoratodad@unige.it https://architettura.unige.it/ https://add.dottorato.unige.it/ Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

Course: BIOENGINEERING AND ROBOTICS

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: ADVANCED AND HUMANOID ROBOTICS (CODE 9845)

Course Coordinator: Massobrio Paolo	
Department of Informatics, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 9 – **Grants**: 9 (*)	
(*) 9 grant funded by The Italian Institute of Technology (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	Candidates must submit: - the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator. - the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: https://biorob.phd.unige.it/how-to-apply); - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: https://biorob.phd.unige.it/how-to-apply); - a curriculum vitae et studiorum including all the technical scientific studies/activities already done and pertinent to the doctoral programme; - endorsement letters (maximum 3) from university professors or recognized experts in the field supporting the candidate. - the Candidate Summary Profile form available at https://biorob.phd.unige.it/how-to-apply.
Research Themes	1. Design and development of mechatronic systems for human-robot interaction 2. Human-robot Collaboration with Quadruped Robots on Rough Terrain 3. Vision-Based Terrain Classification for Quadruped Robots 4. Design of the Next Generation of Quadruped Robots 5. Agile and efficient legged robot design and actuation principles 6. Intelligent end-effector embodiment principles 7. Locomotion planning and control of a hybrid legged/wheeled robot platform 8. Optimal configuration synthesis and control of a reconfigurable mobile manipulation platform 9. Vision based control of prosthetic hands For further details check: https://biorob.phd.unige.it/how-to-apply https://www.iit.it/phd
Information on references	Candidates must choose not less than one and not more than three referees to endorse their candidature. The referees must be university professors or recognized experts in the field, and must send the reference letters (specifying their name, role and affiliation), within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: phd.biorob@dibris.unige.it.
Foreign Languages	English
Further Information	- The detailed description of the research themes can be found at the following links: https://biorob.phd.unige.it/how-to-apply https://www.iit.it/phd - The template for the research project can be found at the following link: https://biorob.phd.unige.it/how-to-apply - The candidate summary profile form can be found at the following link: https://biorob.phd.unige.it/how-to-apply For further information about the research themes please contact: Dr. Ferdinando Cannella (Advanced Robotics): Ferdinando.Cannella@iit.it Dr. Lorenzo Natale (Humanoid Robotics): Lorenzo.Natale@iit.it

Course: BIOENGINEERING AND ROBOTICS
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: BIOENGINEERING (CODE 9846)

Course Coordinator: Massobrio Paolo	
Department of Informatics, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 25 (°) – **Grants**: 24 (*)	
(*) 4 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
(*) 5 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001260006)	
(*) 6 grant funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001260006)	
(*) 6 grant funded within D.M. 117 dated 2.3.2023 (cofunded by: 5) Ospedale Policlinico San Martino 22),23) Fondazione Italiana Sclerosi Multipla FISM-ETS, 8) E.L.CO., 20) Ente Ospedaliero Ospedale Galliera, and 9) Libra Sistemi) under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001630008)	
(*) 3 grant funded by The Italian Institute of Technology (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
(°) 1 place reserved for Rewing S.r.l. employees	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	Candidates must submit: - the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator. - the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: https://biorob.phd.unige.it/how-to-apply); - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: https://biorob.phd.unige.it/how-to-apply); - a curriculum vitae et studiorum including all the technical scientific studies/activities already done and pertinent to the doctoral programme; - endorsement letters (maximum 3) from university professors or recognized experts in the field supporting the candidate. - the Candidate Summary Profile form available at https://biorob.phd.unige.it/how-to-apply.
Research Themes	The following research themes are proposed: 1.Sleep maturation in preterm infants (d.m. 118 PA) 2. Translational neurosensory engineering 3. Closed-loop neuroengineering for electroceutical therapy (d.m. 118 PNRR) 4. Intracortical Microstimulation techniques for stroke recovery: a comparative study on neural dynamics 5. Advanced computational approaches to preclinical imaging (d.m. 117, Policlinico San Martino) 6. Correlation of multimodal ^{18}F-DOPA PET and conventional MRI with treatment response and survival in pediatric-type diffuse high-grade gliomas (d.m. 118 PA) 7. Development of advanced clinical data protection techniques to ensure the security and privacy of sensitive information in medical field (d.m. 118 PA) 8. Application of AI algorithms to bioimaging and medical history data for personalization of diagnostics (d.m. 117, EL.CO.) 9. Optimization of the transition mechanisms from Client-Server systems to systems based on services for integration with the regional electronic health record infrastructure (d.m. 117, Libra Sistemi) 10. Investigation of the interplay between connectivity and dynamics in large-scale hiPSC ensembles 11. Management of the processes of acquisition and standardization of clinical data and diagnostic images for the creation of pseudonymised databases (d.m. 118 PA) 12. Brain-on-a-chip models to investigate new therapeutic approaches (d.m. 118 PNRR) 13. 2D and 3D engineered neuronal networks 14. Large-scale models of neuronal ensembles to characterize the emerging patterns of electrophysiological activity 15. 3D bioprinting of living materials (d.m. 118 PNRR)

	16. 3D *in vitro* model of Parkinson's disease
	17. A computational analysis of early vision function in silico networks of LIF neurons (d.m. 118 PNRR)
	18. Robotic agents and patient digital twins for personalized cognitive and neuromotor rehabilitation (d.m. 118 PNRR)
	19. Mobile applications for remote training to contrast cognitive decline (d.m. 117, Ente Ospedaliero Ospedale Galliera)
	20. Technologies for assistance and rehabilitation of people with spinal cord injury (d.m. 118 PA)
	21. Rehabilitation for people with Multiple Sclerosis in the era of digital health (d.m. 117 Fondazione Italiana Sclerosi Multipla FISM-ETS)
	22. Assessment and treatment of fatigability in people with Multiple Sclerosis (d.m. 117, Fondazione Italiana Sclerosi Multipla FISM-ETS)
	23. Development of novel quantitative diagnostic methods to be applied in anatomic-pathology (d.m. 118 PA)
	24. Software Architectures for Optimizing Upper Limb Rehabilitation with Robotics (place reserved for Rewing S.r.l. employees)
	25. Advanced Clinical Evaluation of Lower Limb Prostheses
	26. Functional Electrical Stimulation for Neurorehabilitation
	27. Neuromodulation for training of prosthetic users
	The detailed description of the research themes can be found at the following link: https://biorob.phd.unige.it/how-to-apply
Information on references	Candidates must choose not less than one and not more than three referees to endorse their candidature. The referees must be university professors or recognized experts in the field, and must send the reference letters (specifying their name, role and affiliation), within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: phd.biorob@dibris.unige.it.
Foreign Languages	English
Further Information	- The detailed description of the research themes can be found at the following links: https://biorob.phd.unige.it/how-to-apply - The template for the research project can be found at the following link: https://biorob.phd.unige.it/how-to-apply - The candidate summary profile form can be found at the following link: https://biorob.phd.unige.it/how-to-apply For further information about the research themes please contact: Prof. Paolo Massobrio paolo.massobrio@unige.it

Course: BIOENGINEERING AND ROBOTICS

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: BIOENGINEERING (CODE 9847)

Course Coordinator: Massobrio Paolo	
Department of Informatics, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 3 – **Grants**: 3 (*)	
(*) 1 grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of REACT4LIFE S.r.l. under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Development of semi-automated "Organ-on-Chip" platforms using pumping systems and robotics (REACT4LIFE S.r.l.)	
(*) 1 grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of NEXTAGE S.r.l, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: - Pass-through vision systems: continuous perceptual calibration strategies in augmented and impoverished reality (ETT S.p.A.) [1]	
(*) 1 grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of ETT S.p.A. under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: - Model of dialogue between people and digital agents for personalized stimulation of mnemonic abilities and support for the evaluation of the progress and assistance of psyche problems (Nextage Srl) [1]	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	Interviews are scheduled on **18/07/2023 at 15.00 PM (CEST)** [2] at DIBRIS, via Opera Pia 13, Genoa. The schedule of video conference interviews will be fixed according to the availability of the commission members
Further information on how to present qualifications/publications	Candidates must submit: - the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator. - the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: https://biorob.phd.unige.it/how-to-apply); - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: https://biorob.phd.unige.it/how-to-apply); - a curriculum vitae et studiorum including all the technical scientific studies/activities already done and pertinent to the doctoral programme; - endorsement letters (maximum 3) from university professors or recognized experts in the field supporting the candidate. - the Candidate Summary Profile form available at https://biorob.phd.unige.it/how-to-apply.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): - Pass-through vision systems: continuous perceptual calibration strategies in augmented and impoverished reality (ETT S.p.A.) [1] - Development of semi-automated "Organ-on-Chip" platforms using pumping systems and robotics (REACT4LIFE srl) - Model of dialogue between people and digital agents for personalized stimulation of mnemonic abilities and support for the evaluation of the progress and assistance of psyche problems (Nextage Srl) [1]
Information on references	Candidates must choose not less than one and not more than three referees to endorse their

	candidature. The referees must be university professors or recognized experts in the field, and must send the reference letters (specifying their name, role and affiliation), within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: phd.biorob@dibris.unige.it.
Foreign Languages	English
Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

[1] Information updated following communication of the course coordinator dated 12.06.2023
[2] Information updated following communication of the course coordinator dated 21.06.2023

Course: BIOENGINEERING AND ROBOTICS

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: BIONANOTECHNOLOGY (CODE 9848)

Course Coordinator: Massobrio Paolo	
Department of Informatics, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 7 – **Grants**: 7 (*)	
(*) 7 grant funded by The Italian Institute of Technology (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	Candidates must submit: - the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator. - the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: https://biorob.phd.unige.it/how-to-apply); - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: https://biorob.phd.unige.it/how-to-apply); - a curriculum vitae et studiorum including all the technical scientific studies/activities already done and pertinent to the doctoral programme; - endorsement letters (maximum 3) from university professors or recognized experts in the field supporting the candidate. - the Candidate Summary Profile form available at https://biorob.phd.unige.it/how-to-apply.
Research Themes	The following research themes are proposed: 1. Hybrid neuro-interfaces between nanosensors and living tissues 2. 3D polymer filters for water decontamination 3. New Developments in Fluorescence Lifetime Microscopy 4. Fungal Mycelium as scaffolds for wound management 5. Sustainable nanocomposite components of flexible electronic systems for development of PCBs, Circuits and Sensors 6. Mycelium-accelerated enzymatic degradation of plant biomass, biopolymers and conventional polymers 7. Development of a computational pipeline to design RNA aptamers For further details check: https://biorob.phd.unige.it/how-to-apply https://www.iit.it/phd
Information on references	Candidates must choose not less than one and not more than three referees to endorse their candidature. The referees must be university professors or recognized experts in the field, and must send the reference letters (specifying their name, role and affiliation), within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: phd.biorob@dibris.unige.it
Foreign Languages	English
Further Information	- The detailed description of the research themes can be found at the following links: https://biorob.phd.unige.it/how-to-apply https://www.iit.it/phd - The template for the research project can be found at the following link: https://biorob.phd.unige.it/how-to-apply - The candidate summary profile form can be found at the following link: https://biorob.phd.unige.it/how-to-apply For further information about the research themes please contact: Dr. Giuseppe Vicidomini (IIT) giuseppe.vicidomini@iit.it

Course: BIOENGINEERING AND ROBOTICS

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: COGNITIVE ROBOTICS, INTERACTION AND REHABILITATION TECHNOLOGIES (CODE 9849)

Course Coordinator: Massobrio Paolo	
Department of Informatics, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 3 – **Grants**: 3 (*)	
(*) 3 grant funded by The Italian Institute of Technology (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	Candidates must submit: - the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator. - the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: https://biorob.phd.unige.it/how-to-apply); - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: https://biorob.phd.unige.it/how-to-apply); - a curriculum vitae et studiorum including all the technical scientific studies/activities already done and pertinent to the doctoral programme; - endorsement letters (maximum 3) from university professors or recognized experts in the field supporting the candidate. - the Candidate Summary Profile form available at https://biorob.phd.unige.it/how-to-apply.
Research Themes	The following research themes are proposed: 1. Human-artificial interaction systems, machine learning and tools development 2. From science to technology for visually impaired children 3. ERC MySpace Position – Cortical mechanisms of spatial representation in children with and without visual impairment For further details check: https://biorob.phd.unige.it/how-to-apply https://www.iit.it/phd
Information on references	Candidates must choose not less than one and not more than three referees to endorse their candidature. The referees must be university professors or recognized experts in the field, and must send the reference letters (specifying their name, role and affiliation), within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: phd.biorob@dibris.unige.it.
Foreign Languages	English
Further Information	- The detailed description of the research themes can be found at the following links: https://biorob.phd.unige.it/how-to-apply https://www.iit.it/phd - The template for the research project can be found at the following link: https://biorob.phd.unige.it/how-to-apply - The candidate summary profile form can be found at the following link: https://biorob.phd.unige.it/how-to-apply For further information about the research themes please contact: Dr. Alessandra Sciutti (IIT) alessandra.sciutti@iit.it

Course: BIOENGINEERING AND ROBOTICS

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: ROBOTICS AND AUTONOMOUS SYSTEMS (CODE 9850)

Course Coordinator: Massobrio Paolo	
Department of Informatics, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 2 – **Grants**: 2 (*)	
(*) 1 grant cofunded by MUR/Department (DIBRIS), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001260006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	Candidates must submit: - the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator. - the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: https://biorob.phd.unige.it/how-to-apply); - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: https://biorob.phd.unige.it/how-to-apply); - a curriculum vitae et studiorum including all the technical scientific studies/activities already done and pertinent to the doctoral programme; - endorsement letters (maximum 3) from university professors or recognized experts in the field supporting the candidate. - the Candidate Summary Profile form available at https://biorob.phd.unige.it/how-to-apply.
Research Themes	The following research themes are proposed: 1. Augmented Reality for teams of Intelligent Aerial vehicles 2. Intercultural Robotics Pedagogy 3. Enhancing the perceptual, learning, planning, and interaction capabilities of the spot quadruped 4. Modeling and Solving Problems with Social and Antisocial Robot 5. Robot avatars and their embodiment (d.m. 118 PNRR) 6. Robot behavior synthesis using prediction machine theory 7. A multi-modal, cognitive extension to surgeons for robot-assisted surgery 8. Methods and techniques to synthesize in-hand manipulation actions 9. A distributed, cognitive architecture for Cephalopods-inspired robots 10. Machine learning methods for active identification (MUR/DIBRIS) 11. Coordination and control of a team of UAVs for cooperative load transportation The detailed description of the research themes can be found at the following link: https://biorob.phd.unige.it/how-to-apply
Information on references	Candidates must choose not less than one and not more than three referees to endorse their candidature. The referees must be university professors or recognized experts in the field, and must send the reference letters (specifying their name, role and affiliation), within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: phd.biorob@dibris.unige.it.
Foreign Languages	English
Further Information	- The detailed description of the research themes can be found at the following links: https://biorob.phd.unige.it/how-to-apply - The template for the research project can be found at the following link: https://biorob.phd.unige.it/how-to-apply - The candidate summary profile form can be found at the following link: https://biorob.phd.unige.it/how-to-apply For further information about the research themes please contact: Prof. Giorgio Cannata giorgio.cannata@unige.it

Course: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE

Curriculum: BIOIMAGING (CODE 9851)

Course Coordinator: Malatesta Paolo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 4 – **Grants:** 4 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 of 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001270006); (*) 1 grant funded within D.M. 117 of 02.03.2023 (co-financed by Esaote Spa), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001620008); (*) 1 position reserved for employees (Fondazione Italiana Sclerosi Multipla - FISM).	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20th July 2023 - h. 14.00 - in presence at the Classroom 1 of Polo Alberti (Via L.B. Alberti, n.4 - Genova), alternatively, if unable for justified reasons to participate in the presence, the interview can be carried out via skype, by sending a request by e-mail, by 17th July 2023, to the Secretariat enrico.zeraschi@unige.it The ranking of the evaluation of qualifications, with the indication of admission or non-admission to the interview, will be sent to all candidates by e-mail, by h. 13.00 of 20th July 2023.
Further information on how to present qualifications/publications	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12) together with the qualifications. The project will be evaluated by the commission together with the qualifications and discussed during the oral interview.
Exam Syllabus	Interview on the titles and on the research project presented.
Research Themes	Advanced cell imaging and microscopy; Diagnostic/computational imaging.
Information on references	No letters of reference are required. Any reference letters received in any case will not be taken into consideration for scoring purposes.
Foreign Languages	English
Further Information	Coordinator: Prof. Paolo Malatesta - Department of Experimental Medicine - Tel. 0105558403 - paolo.malatesta@unige.it Curriculum contact person (to whom to request scientific information): Prof. Gianmario Sambuceti - Department of Health Sciences - Tel. 0105552026 - gianmario.sambuceti@unige.it Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it

Course: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE

Curriculum: CELLULAR AND MOLECULAR BIOTECHNOLOGIES (CODE 9852)

Course Coordinator: Malatesta Paolo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 – **Grants:** 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20th July 2023 - h. 14.00 - in presence at the Classroom 1 of Polo Alberti (Via L.B. Alberti, n.4 - Genova), alternatively, if unable for justified reasons to participate in the presence, the interview can be carried out via skype, by sending a request by e-mail, by 17th July 2023, to the Secretariat enrico.zeraschi@unige.it The ranking of the evaluation of qualifications, with the indication of admission or non-admission to the interview, will be sent to all candidates by e-mail, by h. 13.00 of 20th July 2023.
Further information on how to present qualifications/publications	A tutti i candidati viene richiesto di presentare una proposta di progetto di ricerca (max 2 fogli A4 dimensione carattere 12) insieme ai titoli. Il progetto sarà valutato da parte della commissione insieme ai titoli ed oggetto di discussione durante il Interview orale.
Exam Syllabus	Interview on the titles and on the research project presented.
Research Themes	Innovative diagnostics; Therapeutic treatments; New pharmaceutical products; gene therapy; Cell therapies; Immunosuppressive therapies; Anticancer therapies.
Information on references	No letters of reference are required. Any reference letters received in any case will not be taken into consideration for scoring purposes.
Foreign Languages	English
Further Information	Coordinator: Prof. Paolo Malatesta - Department of Experimental Medicine - Tel. 0105558403 paolo.malatesta@unige.it Curriculum contact person (to whom to request scientific information): Prof. Aldo Pagano - Department of Experimental Medicine - Tel. 0105558213 - aldo.pagano@unige.it Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it

Course: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE

Curriculum: TRANSLATIONAL SURGERY (CODE 9853)

Course Coordinator: Malatesta Paolo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 3 – **Grants:** 3 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00; (*) 1 grant funded within D.M. 118 of 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001270006); (*) 1 grant funded within D.M. 117 of 02.03.2023 (co-financed by Camelot Biomedical Systems Srl), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001620008).	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20th July 2023 - h. 14.00 - in presence at the Classroom 1 of Polo Alberti (Via L.B. Alberti, n.4 - Genova), alternatively, if unable for justified reasons to participate in the presence, the interview can be carried out via skype, by sending a request by e-mail, by 17th July 2023, to the Secretariat enrico.zeraschi@unige.it The ranking of the evaluation of qualifications, with the indication of admission or non-admission to the interview, will be sent to all candidates by e-mail, by h. 13.00 of 20th July 2023.
Further information on how to present qualifications/publications	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12) together with the qualifications. The project will be evaluated by the commission together with the qualifications and discussed during the oral interview.
Exam Syllabus	Interview on the titles and on the research project presented.
Research Themes	Experimental diagnostic and therapeutic approaches in general surgery, specialist surgery and anesthesiology; Computational analysis and artificial intelligence; Innovative diagnostic approaches in clinical microbiology.
Information on references	No letters of reference are required. Any reference letters received in any case will not be taken into consideration for scoring purposes.
Foreign Languages	English
Further Information	Coordinator: Prof. Paolo Malatesta - Department of Experimental Medicine - Tel. 0105558403 - paolo.malatesta@unige.it Curriculum contact person (to whom to request scientific information): Prof. Marco Frascio - Department of Surgical Sciences and Integrated Diagnostics - Tel. 0103537217 - mfrascio@unige.it Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it

Course: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE

Curriculum: REGENERATIVE MEDICINE AND TISSUE ENGINEERING (CODE 9854)

Course Coordinator: Malatesta Paolo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 – **Grants:** 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20th July 2023 - h. 14.00 - in presence at the Classroom 1 of Polo Alberti (Via L.B. Alberti, n.4 - Genova), alternatively, if unable for justified reasons to participate in the presence, the interview can be carried out via skype, by sending a request by e-mail, by 17th July 2023, to the Secretariat enrico.zeraschi@unige.it+ The ranking of the evaluation of qualifications, with the indication of admission or non-admission to the interview, will be sent to all candidates by e-mail, by h. 13.00 of 20th July 2023.
Further information on how to present qualifications/publications	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12) together with the qualifications. The project will be evaluated by the commission together with the qualifications and discussed during the oral interview.
Exam Syllabus	Interview on the titles and on the research project presented.
Research Themes	Cell therapy; Tissue Engineering; Development of biocompatible, biodegradable materials capable of integrating and releasing molecules and cells).
Information on references	No letters of reference are required. Any reference letters received in any case will not be taken into consideration for scoring purposes.
Foreign Languages	English
Further Information	Coordinator: Prof. Paolo Malatesta - Department of Experimental Medicine - Tel. 0105558403 - paolo.malatesta@unige.it Curriculum contact person (to whom to request scientific information): Prof. Paolo Giannoni - Department of Experimental Medicine - Tel. 0105558436 - paolo.giannoni@unige.it Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it

Course: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE

Curriculum: TRANSLATIONAL AND PRECISION MEDICINE (CODE 9855)

Course Coordinator: Malatesta Paolo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 – **Grants:** 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20th July 2023 - h. 14.00 - in presence at the Classroom 1 of Polo Alberti (Via L.B. Alberti, n.4 - Genova), alternatively, if unable for justified reasons to participate in the presence, the interview can be carried out via skype, by sending a request by e-mail, by 17th July 2023, to the Secretariat enrico.zeraschi@unige.it The ranking of the evaluation of qualifications, with the indication of admission or non-admission to the interview, will be sent to all candidates by e-mail, by h. 13.00 of 20th July 2023.
Further information on how to present qualifications/publications	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12) together with the qualifications. The project will be evaluated by the commission together with the qualifications and discussed during the oral interview.
Exam Syllabus	Interview on the titles and on the research project presented.
Research Themes	Eye pathologies; Cancer biology and related innovative therapeutic approaches; Analysis of intercellular communication and study of the biological effects of the cell secretome; Development of innovative approaches for the delivery of drugs and bioactive molecules).
Information on references	No letters of reference are required. Any reference letters received in any case will not be taken into consideration for scoring purposes.
Foreign Languages	English
Further Information	Coordinator: Prof. Paolo Malatesta - Department of Experimental Medicine - Tel. 0105558403 - paolo.malatesta@unige.it Curriculum contact person (to whom to request scientific information): Prof. Sveva Bollini - Department of Experimental Medicine - Tel. 0105558394 – sveva.bollini@unige.it Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it

Course: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING

Curriculum: CHEMICAL, MATERIALS AND PROCESS ENGINEERING (CODE 9856)

Course Coordinator: Massabò Roberta	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria Civile, Chimica e Ambientale – DICCA)	
Places: 5 – **Grants**: 5 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded within D.M. 118 dated 2.3.2023 PNRR, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001280006). (*) 1 grant funded within D.M. 118 dated 2.3.2023 TRANSIZIONI DIGITALI E AMBIENTALI, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001520006). (*) 1 grant funded by ENEA, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within PNRR NEST - Network 4 Energy Sustainable Transition project; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22001330002).	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 21st 2023, 9:00 am, room A5 Polytechnic School, UNIGE, Via Montallegro 1, 16145 Genoa. Should there be a high number of candidates, the interviews will continue on the following working day. The interview may also take place electronically, on candidates' request or if necessary due to the health situation. Candidates requesting online interview must contact the doctoral secretarial staff (dottorato.dicca@unige.it) and Prof. Attilio Converti (converti@unige.it) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
Further information on how to present qualifications/publications	The application (curriculum vitae) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees; Laurea Triennale and Magistrale degrees). The transcripts of Records must be official documents released by the universities which awarded the degrees. Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career. The knowledge of foreign languages certified by an international certificate (TOEFL, CPE, CAE, FCE, etc.) attached to the cv would be an asset.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project, Curriculum Vitae et Studiorum and qualifications/publications. The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	The research themes are those of the curriculum in "Chemical, Materials and Process Engineering"; they are described in details on the course web page: http://dottorato.dicca.unige.it/eng/chmatpr/. The research project (10 pages max) must be prepared on one of the Project Thematics listed in http://dottorato.dicca.unige.it/documents/PhD_projects2023_ICMP.pdf or in http://dottorato.dicca.unige.it/documents/PhD_industrial_projects2023_ICMP.pdf for projects with industry, under the general Thematic "Chemical, Materials and Process Engineering". The project must be prepared under the guidance of the referent of the Project in the list above. The project must include the title of the Project (from the list above), the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references, and the objectives of the research activity. Projects that are not submitted as requested might be penalized in the evaluation process.
Information on references	Candidates must choose at least one and no more than three referees to support their candidature. One of the referees must be the member of the curriculum committee (http://dottorato.dicca.unige.it/eng/info/staff/comitatochmatpr.html) with whom the research project has been agreed. The referees must be university professors or experts in the subject. The reference letter must be sent by the referee, within the deadline of the public notice and using their institutional e-mail address, to the doctoral secretariat at dottorato.dicca@unige.it. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.

Foreign Languages	English
Further Information	http://dottorato.dicca.unige.it/eng/ Prof. Attilio Converti converti@unige.it

Course: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING

Curriculum: CHEMICAL, MATERIALS AND PROCESS ENGINEERING (CODE 9857)

Course Coordinator: Massabò Roberta	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria Civile, Chimica e Ambientale – DICCA)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of PAUL WURTH ITALIA, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Study and comparative analysis in terms of efficiency of possible evolutions of the direct reduction process with natural gas compared to direct reduction processes with hydrogen	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	July 21st 2023, 9:00 am, room A5 Polytechnic School, UNIGE, Via Montallegro 1, 16145 Genoa. Should there be a high number of candidates, the interviews will continue on the following working day. The interview may also take place electronically, on candidates' request or if necessary due to the health situation. Candidates requesting online interview must contact the doctoral secretarial staff (dottorato.dicca@unige.it) and Prof. Attilio Converti (converti@unige.it) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
Further information on how to present qualifications/publications	The application (curriculum vitae) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. Degrees; Laurea Triennale and Magistrale degrees). The transcripts of Records must be official documents released by the universities which awarded the degrees. Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career. The knowledge of foreign languages certified by an international certificate (TOEFL, CPE, CAE, FCE, etc.) attached to the cv would be an asset.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project, Curriculum Vitae et Studiorum and qualifications/publications. The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): "Study and comparative analysis in terms of efficiency of possible evolutions of the direct reduction process with natural gas compared to direct reduction processes with hydrogen" The research project (10 pages max) must be prepared on the related project thematic described in: http://dottorato.dicca.unige.it/documents/PhD_industrial_projects2023_ICMP.pdf The project must be prepared under the guidance of the referent of the Project. The project must include the title of the Project, the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the objectives of the research activity. Projects that are not submitted as requested might be penalized in the evaluation process.
Information on references	Candidates must choose at least one and no more than three referees to support their candidature. One of the referees must be the member of the curriculum committee (http://dottorato.dicca.unige.it/eng/info/staff/comitatochmatpr.html) with whom the research project has been agreed. The referees must be university professors or experts in the subject. The reference letter must be sent by the referee, within the deadline of the public notice and using their institutional e-mail address, to the doctoral secretariat at dottorato.dicca@unige.it. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English

Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6)
	Months to be spent abroad: 0
	http://dottorato.dicca.unige.it/eng/ Prof. Attilio Converti converti@unige.it

Course: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING

Curriculum: FLUID DYNAMICS AND ENVIRONMENTAL ENGINEERING (CODE 9858)

Course Coordinator: Massabò Roberta	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria Civile, Chimica e Ambientale – DICCA)	
Places: 7 – **Grants**: 7 (*)	

(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.
(*) 1 grant funded within D.M. 118 dated 2.3.2023 PNRR, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001280006)
(*) 1 grant funded within D.M. 118 dated 2.3.2023 Pubblica Amministrazione, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001280006)
(*) 1 grant funded within D.M. 117 dated 2.3.2023 cofunded by ARPAL, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001640008).
(*) 1 grant funded within D.M. 117 dated 2.3.2023 cofunded by ENEA, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001640008).
(*) 1 grant funded within PNRR RETURN - Multi-Risk Science for Resilient Communities Under a Changing Climat project; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22001290002).
(*) 1 grant funded by Department DICCA, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 21st 2023, 9:00 am, room A5 Polytechnic School, UNIGE, Via Montallegro 1, 16145 Genoa. Should there be a high number of candidates, the interviews will continue on the following working day. The interview may also take place electronically, on candidates' request or if necessary due to the health situation. Candidates requesting online interview must contact the doctoral secretarial staff (dottorato.dicca@unige.it) and Prof. Rodolfo Repetto (rodolfo.repetto@unige.it) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
Further information on how to present qualifications/publications	The application (curriculum vitae) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees; Laurea Triennale and Magistrale degrees). The transcripts of Records must be official documents released by the universities which awarded the degrees. Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career. The knowledge of foreign languages certified by an international certificate (TOEFL, CPE, CAE, FCE, etc.) attached to the cv would be an asset.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project, Curriculum Vitae et Studiorum and qualifications/publications. The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	The research themes are those of the curriculum in "Fluid Dynamics and Environmental Engineering"; they are described in details on the course web page: http://dottorato.dicca.unige.it/eng/fluamb/. The research project (10 pages max) must be prepared on one of the Project Thematics listed in: http://dottorato.dicca.unige.it/documents/PhD_projects2023_FIA.pdf, or in http://dottorato.dicca.unige.it/documents/PhD_industrial_projects2023_FIA.pdf for projects with industry, under the general Thematic "Fluid Dynamics and Environmental Engineering". The project must be prepared under the guidance of the referent of the Project in the list above. The project must include the title of the Project (from the list above), the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the objectives of the research activity. Projects that are not submitted as requested might be penalized in the evaluation process.

Information on references	Candidates must choose at least one and no more than three referees to support their candidature. One of the referees must be the member of the curriculum committee (http://dottorato.dicca.unige.it/eng/info/staff/comitatofluamb.html) with whom the research project has been agreed. The referees must be university professors or experts in the subject. The reference letter must be sent by the referee, within the deadline of the public notice and using their institutional e-mail address, to the doctoral secretariat at dottorato.dicca@unige.it. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English
Further Information	http://dottorato.dicca.unige.it/eng/ Prof. Rodolfo Repetto rodolfo.repetto@unige.it

Course: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING

Curriculum: FLUID DYNAMICS AND ENVIRONMENTAL ENGINEERING (CODE 9859)

Course Coordinator: Massabò Roberta	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria Civile, Chimica e Ambientale – DICCA)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of WHEATER WATER AND SAND, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243.	
Research project: Hindcasting and forecasting the triggering and dynamics of marine sediment gravity flows	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	July 21st 2023, 9:00 am, room A5 Polytechnic School, UNIGE, Via Montallegro 1, 16145 Genoa. Should there be a high number of candidates, the interviews will continue on the following working day. The interview may also take place electronically, on candidates' request or if necessary due to the health situation. Candidates requesting online interview must contact the doctoral secretarial staff (dottorato.dicca@unige.it) and Prof. Rodolfo Repetto (rodolfo.repetto@unige.it) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
Further information on how to present qualifications/publications	The application (curriculum vitae) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. Degrees; Laurea Triennale and Magistrale degrees). The transcripts of Records must be official documents released by the universities which awarded the degrees. Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career. The knowledge of foreign languages certified by an international certificate (TOEFL, CPE, CAE, FCE, etc.) attached to the cv would be an asset.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project, Curriculum Vitae et Studiorum and qualifications/publications. The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): "Hindcasting and forecasting the triggering and dynamics of marine sediment gravity flows" The research project (10 pages max) must be prepared on the related project thematic described in: http://dottorato.dicca.unige.it/documents/PhD_industrial_projects2023_FIA.pdf The project must be prepared under the guidance of the referent of the Project. The project must include the title of the Project, the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the objectives of the research activity. Projects that are not submitted as requested might be penalized in the evaluation process.
Information on references	Candidates must choose at least one and no more than three referees to support their candidature. One of the referees must be the member of the curriculum committee (http://dottorato.dicca.unige.it/eng/info/staff/comitatofluamb.html) with whom the research project has been agreed. The referees must be university professors or experts in the subject. The reference letter must be sent by the referee, within the deadline of the public notice and using their institutional e-mail address, to the doctoral secretariat at dottorato.dicca@unige.it. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English
Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of

	competition (article 6, paragraph 6)
	Months to be spent abroad: 0
	http://dottorato.dicca.unige.it/eng/ Prof. Rodolfo Repetto rodolfo.repetto@unige.it

Course: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING

Curriculum: STRUCTURAL AND GEOTECHNICAL ENGINEERING, MECHANICS AND MATERIALS (CODE 9860)

Course Coordinator: Massabò Roberta	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria Civile, Chimica e Ambientale – DICCA)	
Places: 4 – **Grants**: 4 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded within D.M. 118 dated 2.3.2023 PATRIMONIO CULTURALE, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001280006). (*) 1 grant funded within PNRR RETURN – CN MOST "Sustainable Mobility"; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22001290002).	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 21st 2023, 9:00 am, room A5 Polytechnic School, UNIGE, Via Montallegro 1, 16145 Genoa. Should there be a high number of candidates, the interviews will continue on the following working day. The interview may also take place electronically, on candidates' request or if necessary due to the health situation. Candidates requesting online interview must contact the doctoral secretarial staff (dottorato.dicca@unige.it) and Prof. Maria Pia Repetto (repetto@dicca.unige.it) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
Further information on how to present qualifications/publications	The application (curriculum vitae) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. Degrees; Laurea Triennale and Magistrale degrees). The transcripts of Records must be official documents released by the universities which awarded the degrees. Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career. The knowledge of foreign languages certified by an international certificate (TOEFL, CPE, CAE, FCE, etc.) attached to the cv would be an asset.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project, Curriculum Vitae et Studiorum and qualifications/publications. The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	The research themes are those of the curriculum in "Structural and Geotechnical Engineering, Mechanics and Materials"; they are described in details on the course web page: http://dottorato.dicca.unige.it/eng/stmatgeo/. The research project (10 pages max) must be prepared on one of the Project Thematics listed in http://dottorato.dicca.unige.it/documents/PhD_projects2023_SMG.pdf or in http://dottorato.dicca.unige.it/documents/PhD_industrial_projects2023_SMG.pdf for projects with industry, under the general Thematic "Structural and Geotechnical Engineering, Mechanics and Materials". The project must be prepared under the guidance of the referent of the Project in the list above. The project must include the title of the Project (from the list above), the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the objectives of the research activity. Projects that are not submitted as requested might be penalized in the evaluation process.
Information on references	Candidates must choose at least one and no more than three referees to support their candidature. One of the referees must be the member of the curriculum committee (http://dottorato.dicca.unige.it/eng/info/staff/comitatostmatgeo.html) with whom the research project has been agreed. The referees must be university professors or experts in the subject. The reference letter must be sent by the referee, within the deadline of the public notice, to the doctoral secretariat at dottorato.dicca@unige.it. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English

Further Information	http://dottorato.dicca.unige.it/eng/
	Prof. Maria Pia Repetto repetto@dicca.unige.it

Course: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING

Curriculum: STRUCTURAL AND GEOTECHNICAL ENGINEERING, MECHANICS AND MATERIALS (CODE 9861)

Course Coordinator: Massabò Roberta	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria Civile, Chimica e Ambientale – DICCA)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of ISTITUTO ITALIANO DELLA SALDATURA, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Development of systems for predictive maintenance of infrastructures based on the use of BIM, digital twin and artificial intelligence	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	July 21st 2023, 9:00 am, room A5 Polytechnic School, UNIGE, Via Montallegro 1, 16145 Genoa. Should there be a high number of candidates, the interviews will continue on the following working day. The interview may also take place electronically, on candidates' request or if necessary due to the health situation. Candidates requesting online interview must contact the doctoral secretarial staff (dottorato.dicca@unige.it) and Prof. Maria Pia Repetto (repetto@dicca.unige.it) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
Further information on how to present qualifications/publications	The application (curriculum vitae) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. Degrees; Laurea Triennale and Magistrale degrees). The transcripts of Records must be official documents released by the universities which awarded the degrees. Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career. The knowledge of foreign languages certified by an international certificate (TOEFL, CPE, CAE, FCE, etc.) attached to the cv would be an asset.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project, Curriculum Vitae et Studiorum and qualifications/publications. The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): Development of systems for predictive maintenance of infrastructures based on the use of BIM, digital twin and artificial intelligence The research project (10 pages max) must be prepared on the related project thematic described in: http://dottorato.dicca.unige.it/documents/PhD_industrial_projects2023_SMG.pdf The project must be prepared under the guidance of the referent of the Project. The project must include the title of the Project (from the list above), the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the objectives of the research activity. Projects that are not submitted as requested might be penalized in the evaluation process.
Information on references	Candidates must choose at least one and no more than three referees to support their candidature. One of the referees must be the member of the curriculum committee (http://dottorato.dicca.unige.it/eng/info/staff/comitatostmatgeo.html) with whom the research project has been agreed. The referees must be university professors or experts in the subject. The reference letter must be sent by the referee, within the deadline of the public notice and using their institutional e-mail address, to the doctoral secretariat at dottorato.dicca@unige.it. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.

Foreign Languages	English
Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0 http://dottorato.dicca.unige.it/eng/ Prof. Maria Pia Repetto repetto@dicca.unige.it

Course: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION
In agreement with Università degli Studi di Torino - University of Turin

Curriculum: ARTS, PERFORMING ARTS AND MULTIMEDIA TECHNOLOGIES (CODE 9862)

Course Coordinator: Bricco Elisa	
Department of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)	
Places: 4 – **Grants**: 4 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001590006) (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Patrimonio Culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001590006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	26.07.2023 – time 9.30 AM - in telematic mode: the link for the connection will be communicated via the PhD website (https://digitalhumanities.phd.unige.it/), News section, and the communication will be sent to all students admitted to the interview.
Further information on how to present qualifications/publications	Together with their qualifications, applicants must enclose a research project on a topic related to Digital Humanities and consistent with the themes and objectives specified in the 'Research Topics' section. The project should be structured in the following sections: -title; -summary; -objectives of the research project; -analysis of existing literature on the research topic; -research problems that you want to face and to which you want to give an answer; -methodologies that you plan to use to achieve the objectives; -expected results at the end of the three-year research period. The project will be evaluated according to: • compliance with the presentation modalities set out above; •clarity of objectives, hypotheses and methodological approach of the research; •originality and innovativeness of the proposal with respect to the reference literature; •clear feasibility of the timing of the work phases; •a solid bibliographical basis. The candidate should also indicate potential foreign partner research centres/places to carry out the research. The project must be no longer than 4000 words plus references. In case of admission to the Ph.D. program, the candidate will normally carry out his/her activity within the specific Research Theme among those in the call for which he/she has submitted the project (section "Research Themes") but not necessarily on the specific activities described and planned in the submitted research project, which has the main purpose of demonstrating the candidate's aptitude for research.

Research Themes	1. Contemporary art history: retrieval, historical-critical analysis and digitisation of textual and iconographic sources, virtual reconstruction of exhibition environments, re-enactment of performative actions also through motion capture technologies.
	2. Virtual reconstruction of dispersed art collections (15th - 18th century). Retrieval, analysis, critical contextualisation of sources and mapping of heritages for the digital and multimedia realisation of the space.
	3. Investigation on the Creation of a Virtual Museum of the "Underground City" through Digital Reconstruction of the Complex Underground Structures Hidden beneath the City of Genoa. (DM 118 02.03.2023 Ricerca PNRR).
	4. Analysis and Digital Reconstruction of Important Italian Art Collections from the 15th to the 18th Century, Dispersed Over the Centuries. (DM 118 02.03.2023 (Patrimonio Culturale)
Information on references	Applicants must choose no fewer than one and no more than three referees to support their application. These referees must be university lecturers or experts in the field. In the application form, candidates must indicate the name, position and place of employment of their chosen referees. It will be the responsibility of the referees supporting the application to send the letters of reference by the deadline of the call to the PhD coordinator: silvia.orsino@unige.it.
Foreign Languages	Applicants must demonstrate knowledge of at least one foreign language chosen between English and French.
Further Information	The administrative contact person for the PhD is dr. Silvia Orsino: silvia.orsino@unige.it.

Course: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION
In agreement with Università degli Studi di Torino - University of Turin

Curriculum: LANGUAGES, LITERATURES, FOREIGN CULTURES AND TECHNOLOGIES (CODE 9863)

Course Coordinator: Bricco Elisa	
Department of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)	
Places: 7 – **Grants**: 7 (*) [1]	
(*) 7 grants funded by the Università di Torino. The annual gross amount of the grant, including security axpenses to be paid by the recipient, is € 17.500 (3 of these grants within D.M. 118 dated 2.3.2023 Azione Dottorati per la Pubblica Amministrazione and 1 grant within D.M. 118 dated 2.3.2023 Azione Dottorati PNRR, under condition to the approval of Ministerial funding - CUP D32B23001590006) [1]	
At the end of the doctoral course, a joint degree will be awarded by the Universities of Genova and Turin.	
Comparative assesment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	24.07.2023 – time 10.00 AM - in telematic mode: the link for the connection will be communicated via the PhD website (https://digitalhumanities.phd.unige.it/), News section, and the communication will be sent to all students admitted to the interview.
Further information on how to present qualifications/publications	Together with their qualifications, applicants must submit a Digital Humanities research project on a topic related to Digital Humanities and consistent with the themes and objectives specified in the "Research Topics" section. The project should be structured in the following sections: • title; • summary; • objectives of the research project; • analysis of existing literature on the research topic; • research problems that you want to face and to which you want to give an answer; • methodologies that you plan to use to achieve the objectives; • expected results at the end of the three-year research period. The project will be evaluated according to • compliance with the presentation modalities set out above; • clarity of objectives, hypotheses and methodological approach of the research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • a solid bibliographical basis. The candidate should also indicate potential foreign partner research centres/places to carry out the research. The project must be no longer than 4000 words plus references. In case of admission to the Ph.D. program, the candidate will normally carry out his/her activity within the specific Research Theme among those in the call for which he/she has submitted the project (section "Research Themes") but not necessarily on the specific activities described and planned in the submitted research project, which has the main purpose of demonstrating the candidate's aptitude for research.
Research Themes	1. Critical reflection and methodological approaches to the design and realisation of a digital corpus of the visual poetry of the Spanish and Catalan historical avant-garde (first quarter of the 20th century). 2. Critical reflection and methodological approaches to the realisation of a bilingual Italian and Chinese digital platform on the literary and essayistic works of Alessandro Manzoni. 3. Critical reflection and methodological approaches to contemporary Japanese poetry, with particular reference to Gender and Queer Studies and with a view to the creation of a digital archive. 4. Study of integrated digital archives: production, landscape and cultural patterns from the cotton mills of Mumbai to the wool mills of Biella, in literature, the arts and essay with reference to the role and writings of Gandhi (DM 118 02.03.2023 Pubblica Amministrazione). 5. Critical reflection and methodological approaches to contemporary Polish literature with a

view to the realisation of an interactive digital map of a border region in Poland (DM 118 02.03.2023 Pubblica Amministrazione).

6. Digital literacy and human-computer interaction in English language teaching and learning (DM 118 02.03.2023 Ricerca PNRR).

7. Study of integrated digital archives in the context of Digital Poetry, Contemporary Anglophone African Literature and New Media, based on the archive Africanpoems.net and the novel corpus of the 2021 Nobel Prize winner for Literature from Zanzibar, Abdulrazak Gurnah (DM 118 02.03.2023 Action Doctorates for Public Administration). [1]

Information on references	Applicants must choose no fewer than one and no more than three referees to support their application. These referees must be university lecturers or experts in the field. In the application form, candidates must indicate the name, position and place of employment of their chosen referees. It will be the responsibility of the referees supporting the application to send the letters of reference by the deadline of the call to silvia.orsino@unige.it and for information to: veronica.orazi@unito.it (Theme 1), luca.badiniconfalonieri@unito.it (Theme 2), gianluca.coci@unito.it (Theme 3), carmen.concilio@unito.it (Theme 4), krystyna.jaworska@unito.it (Theme 5), virginia.pulcini@unito.it (Theme 6).
Foreign Languages	Candidates must demonstrate during the interview their knowledge of Spanish and as an additional preferential requirement knowledge of Catalan (Theme 1) or Chinese (Theme 2) or Japanese (Theme 3) or English (Themes 4 e 6) or Polish (Theme 5), as well as Italian, at CEFR C2 level.
Further Information	The administrative contact person for the PhD is dr. Silvia Orsino: silvia.orsino@unige.it

[1] 1 position with grant added following the letter received from Università degli Studi di Torino dated 27.06.2023

Course: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION
In agreement with Università degli Studi di Torino - University of Turin

Curriculum: LANGUAGES, CULTURES AND DIGITAL TECHNOLOGIES (CODE 9864)

Course Coordinator: Bricco Elisa	
Department of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)	
Places: 7 – **Grants**: 7 (*)	
(*) 3 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 2 grants funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001590006) (*) 1 grant funded within D.M. 117 dated 2.3.2023 (co-funded by: Sky Media Italia), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001650008). (*) 1 grant funded within D.M. 117 dated 2.3.2023 (co-funded by: E.H.T. S.C.P.A.), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001650008).	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25.07.2023 – time 14.00 PM - in telematic mode: the link for the connection will be communicated via the PhD website (https://digitalhumanities.phd.unige.it/), News section, and the communication will be sent to all students admitted to the interview.
Further information on how to present qualifications/publications	Together with their qualifications, applicants must enclose a research project on a topic related to Digital Humanities and consistent with the themes and objectives specified in the 'Research Topics' section. The project should be structured in the following sections: -title; -summary; -objectives of the research project; -analysis of existing literature on the research topic; -research problems that you want to face and to which you want to give an answer; -methodologies that you plan to use to achieve the objectives; -expected results at the end of the three-year research period. The project will be evaluated according to • compliance with the presentation modalities set out above; • clarity of objectives, hypotheses and methodological approach of the research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • a solid bibliographical basis. The candidate should also indicate potential foreign partner research centres/places to carry out the research. The project must be no longer than 4000 words plus references. In case of admission to the Ph.D. program, the candidate will normally carry out his/her activity within the specific Research Theme among those in the call for which he/she has submitted the project (section "Research Themes") but not necessarily on the specific activities described and planned in the submitted research project, which has the main purpose of demonstrating the candidate's aptitude for research.
Research Themes	1. Generative Artificial Intelligence: Multimedia content creation; Categorization of AI e-Learning systems; Definition of learning and teaching strategies and new skills needed for teachers and learners. 2. Computational analyses of contemporary French literary corpora for narratological, stylistic, and lexical analysis. 3. Effectiveness of Augmented Alternative Communication (AAC) Applications in the Educational Inclusion Process of Newly Arrived Students in Italy (NAI) with No Proficiency in

	the Italian Language.
	4. AWE (Automated Written Evaluation) and AI for Language Teaching. Investigation on the Effectiveness of ICTs in Providing Adequate and Formative Feedback on Foreign Language Written Production.
	5. Accessibility of Architectural and Documentary Heritage of Universities for the Public of Visually and Hearing-Impaired Individuals: Creation of a Multilingual Device. (DM 118 02.03.2023 Pubblica Amministrazione)
	6. Machine Translation as a tool for supporting language learning Processes to be applied in the management of multilingual resources and data in Public Administration. (DM 118 02.03.2023 Pubblica Amministrazione)
	7. Technology & Storytelling: How New Technologies (Generative AI, XR/AR/VR, Metaverse, Special Cameras) Support and Enable Transmedia Storytelling. (D.M. 117 del 2.03.2023 - Azione Dottorati innovativi)
	8. Designing and validating digital pathways for accessing heritage to promote individual and social well-being. (D.M. 117 del 2.03.2023 - Azione Dottorati innovativi)
Information on references	Applicants must choose no fewer than one and no more than three referees to support their application. These referees must be university lecturers or experts in the field.
	In the application form, candidates must indicate the name, position and place of employment of their chosen referees. It will be the responsibility of the referees supporting the application to send the letters of reference by the deadline of the call to the PhD coordinator: silvia.orsino@unige.it.
Foreign Languages	Applicants must demonstrate knowledge of at least one foreign language chosen between English and French.
Further Information	The administrative contact person for the PhD is dr. Silvia Orsino: silvia.orsino@unige.it.

Course: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION
In agreement with Università degli Studi di Torino - University of Turin

Curriculum: LINGUISTICS, APPLIED LINGUISTICS AND ONOMASTICS (CODE 9865)

Course Coordinator: Bricco Elisa	
Department of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)	
Places: 3 – **Grants**: 3 (*)	
(*) 3 grants funded by the Università di Torino. The annual gross amount of the grant, including security axpenses to be paid by the recipient, is € 17.500 (1 of these grant within D.M. 118 dated 2.3.2023 Azione Dottorati per la Pubblica Amministrazione, under condition to the approval of Ministerial funding - CUP D32B23001590006)	
At the end of the doctoral course, a joint qualification will be awarded by both the Universities of Genoa and Turin.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25.07.2023 – time 10.00 AM - in telematic mode: the link for the connection will be communicated via the PhD website (https://digitalhumanities.phd.unige.it/), News section, and the communication will be sent to all students admitted to the interview.
Further information on how to present qualifications/publications	Together with their qualifications, applicants must submit a Digital Humanities research project on a topic related to Digital Humanities and consistent with the themes and objectives specified in the "Research Topics" section. The project should be structured in the following sections: • title; • summary; • objectives of the research project; • analysis of existing literature on the research topic; • research problems that you want to face and to which you want to give an answer; • methodologies that you plan to use to achieve the objectives; • expected results at the end of the three-year research period. The project will be evaluated according to • compliance with the presentation modalities set out above • clarity of objectives, hypotheses and methodological approach of the research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • a solid bibliographical basis. The candidate should also indicate potential foreign partner research centres/places to carry out the research. The project must be no longer than 4000 words plus references. In case of admission to the Ph.D. program, the candidate will normally carry out his/her activity within the specific Research Theme, among those in the call for which he/she has submitted the project (section "Research Themes") but not necessarily on the specific activities described and planned in the submitted research project, which has the main purpose of demonstrating the candidate's aptitude for research.
Research Themes	1. Computational thinking and collaborative knowledge construction to foster student learning in a digital learning environment (DM 118 02.03.2023 Pubblica Amministrazione). 2. The contribution of digital technologies in the analysis and representation of data in complex onomastic systems: defining the repertoire and managing variability in diatopy and diachrony. 3. Description of the historical process of poetic speech with a phonetic approach and through the analysis of vocal data of the VIP-Voices of Italian Poets project. Development of an experimental research methodology, in a digital perspective, for the study of the relationship between music and language and between the sound and textual dimensions of poetry, with reference to a theory of intonation.

Information on references	Applicants must choose no fewer than one and no more than three referees to support their application. These referees must be university lecturers or experts in the field. In the application form, candidates must indicate the name, position and place of employment of their chosen referees. It will be the responsibility of the referees supporting the application to send the letters of reference by the deadline of the call to silvia.orsino@unige.it, and for information to: marina.marchisio@unito.it (Theme 1), elena.papa@unito.it (Theme 2), antonio.romano@unito.it (Theme 3).
Lingue straniere	Candidates must demonstrate during the interview their knowledge of English (Themes 1, 2 and 3), as well as Italian, at CEFR C2 level.
Further Information	The administrative contact person for the PhD is dr. Silvia Orsino: silvia.orsino@unige.it

Course: LAW

Curriculum: PHILOSOPHY OF LAW AND HISTORY OF LEGAL CULTURE (CODE 9866)

Course Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	From the CV and other documents enclosed the following data should result: a) University degree and the final note or qualification thereof; b) any other post-lauream degree (like, e.g., Master degrees); c) publications concerning one or more of the research topics of the present Curriculum, if any; d) research experiences and research and educational activities, if any.
Exam Syllabus	Candidates must submit, under penalty of exclusion from the competition, a research project (maximum 10000 characters, spaces and essential bibliographical references included, under penalty of exclusion) on a research topic singled out in the following box. The project must contain, under penalty of exclusion, a clear statement of the topic, goals, and stages of the research activity, along with essential bibliographical references. The research project can be written, on the candidate's choice, in Italian, French, English, or Spanish.
Research Themes	• Legal Philosophies • Legal Reasoning • Theories of Legal Interpretation • Theory of Legal Sources • General Theory of Law and State • Constitutional Interpretation • Logic and Legal Argumentation • Juridical Enlightenment and Codification Ideologies • Philosophies of Punishment • Epistemology and Theory of Legal Science • Natural Law and Legal Positivism • Feminist Theories of Law • Theory of Norms and Legal Systems • Theory of Legal Language • Equality, Poverty, Welfare State, Regulation and Deregulation • History and Theories of Subjective Rights • Law, Constitutions and Constitutionalism • History and Theories of Legal Dogmatics • Bioethics and Legal Philosophy • Sociology of Law and History of Legal-Sociological Thought • History of Legal Culture and Thought • Law and Culture • Law and Social Change
Information on references	Candidates must provide up to three letters of reference (minimum one) supporting their application. The letters must be written by Academics, or Experts, in the research topics of the Curriculum. They will send their letter of reference, with-in the deadline established in the Call, directly to the following address: pierluigi.chiassoni@unige.it, dottorato.diritto@unige.it. In their application form, candidates must point out the name, the qualification, and the workplace of the persons that will write reference letters for them.
Foreign Languages	English, Spanish

Further Information	During the three years of the Program (and preferably during the second year) PhD candidates shall spend a minimum six-months period of research abroad, or at qualified international Academic and Research Centres having their seat in Italy, doing research on the topic of their PhD dissertation.
	Referente del curriculum / Curriculum coordinator:
	Prof. Pierluigi Chiassoni pierluigi.chiassoni@unige.it
	Referente amministrativo / Curriculum secretary:
	dott.ssa Stefania Lavezzo dottorato.diritto@unige.it

Course: LAW

Curriculum: PHILOSOPHY OF LAW AND HISTORY OF LEGAL CULTURE (CODE 9867)

Course Coordinator: Chiassoni Pierluigi	
Law Department (Dipartimento di Giurisprudenza – DDG)	
Positions: 2 – **Grant:** 2 (*)	
(*) funded by the European Project "HABITAT", Title EN "How European Big Cities and Legal Systems Trigger Urban Inequality: An Inquiry into Law and Economics", Program "Horizon Europe", Action ERC StG, G.A. no. 101076616, CUP: D33C22002160006	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS/INTERVIEW
Interview	Interviews will take place on 17.07.2023 at 15.00 via Teams.
Further information on how to present qualifications/publications	From the CV and other documents enclosed the following data should result: a) University degree and the final note or qualification. b) Any other post-lauream degree (e.g., master's degrees/LLM); c) Publications concerning one or more of the research topics of the present Curriculum, if any; d) Research experiences and research and educational activities, if any. Candidates must submit a research project (Maximum 5 pages, possibly Times New Roman 12, including the bibliographical references) on a research topic specified in the following box. The project must containa clear statement of the topic, goals, and stages of the research activity, along with essential bibliographical references. The research project must be written in English
Exam Syllabus	The interview will focus on the subjects covered by the Project, such as but not limited to: urban law, urban inequalities, socioeconomic inequalities, urban development, methods of law and economics, local and regional governance, housing law, credit law (mortgage access and credit score), urban economics, methods of analysis in the social sciences, comparative law (methods), governance of cities. The candidate must discuss the publications and titles declared in the CV. The interview will be conducted entirely in English.
Research Themes	These positions are funded by the European Project "HABITAT", Title EN "How European Big Cities and Legal Systems Trigger Urban Inequality: An Inquiry into Law and Economics", Program "Horizon Europe", Action ERC StG, G.A. no. 101076616, CUP: D33C22002160006. The proposals must relate to the main research objectives of the HABITAT project. Thus, the proposals of the applicant must be devoted to the analysis of the main regulatory interventions in urban development, urban planning, property law, access to mortgages, financing and bonuses, real estate acquisition, credit score assessment, city network institutions, elements of urban governance, public law contracts, and procurement. The Italian system, the French system, the German system, and the English system will be the object of comparative study, with particular attention to the following cities: Milan, Paris, Berlin, and London. The method of analysis uses elements of law and economics and applied economics. The spectrum of the investigation covers the period 1980-2020: both legislative and jurisprudential changes will be studied, considering sociocultural and contextual background variables.
Foreign Languages	English
Further Information	During the three years of the Program (and preferably during the second year) PhD candidates shall spend at least a six-months period of research abroad, or at qualified international Academic and Research Centers, conducting research on the topic of their PhD dissertation. Referente del curriculum / Curriculum Coordinator: Prof. Pierluigi Chiassoni pierluigi.chiassoni@unige.it PI of the ERC STG Project: Dr. Alessio Sardo alessio.sardo@unige.it Referente amministrativo / Curriculum Officer: Mrs. Stefania Lavezzo dottorato.diritto@unige.it

Course: LAW

Curriculum: INTERNATIONAL LAW (COMMERCIAL, EUROPEAN UNION AND INTERNATIONAL LAW) (CODE 9868)

Course Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
Places: 2 – **Grants**: 2 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001290006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	21.07.2023, h. 09.30 a.m. at the former International and Navigation Law Section of the Department of Law, Via Balbi n. 22/7-B, 3rd floor. The interview will be held in person; at the candidate's motivated request, also online (on Skype/Teams). Candidates must inform Prof. Paola Ivaldi (Paola.Ivaldi@unige.it) and Dr. Lavezzo (dottorato.diritto@unige.it) of their choice to attend the interview online no later than seven days before the date fixed for the interview.
Further information on how to present qualifications/publications	Qualifications include the information contained in the application and in the curriculum vitae et studiorum, the research project, any further qualifications. The application and attached documents may be written in Italian or English.
Exam Syllabus	The interview consists: - an in-depth examination of the candidate's skills in relation to the key issues relating, at candidate's choice, to one of the following areas: international law, European Union law and commercial law, with particular regard to the research topics set out below; - in the discussion of the research project presented.
Research Themes	Within the curriculum in international law, European Union law and commercial law there are three research themes, substantially corresponding to the disciplinary "areas" (and related "competences") that are represented in it. These themes are part of a unitary framework, characterized by the sharing of a system of sources known as "multiple sources", by the presence of consolidated systems of protection and by the multidisciplinary approach. The first research theme concerns the most significant recent developments in international law (both public and private), including references to the international maritime law, analyzed from the perspective of the extension of the rights guaranteed to individuals and their "effective" judicial protection. The same perspective is adopted with reference to the European Union's legal system, of which the profiles of institutional as well as material law are highlighted (single market and other areas of competence of the Union, including those with external relevance). With respect to commercial law, again within the framework of the European Union's harmonization regulations, specific attention is paid to the regulation of banking, financial and insurance intermediaries and the corporate governance of listed companies, including the recent legislative and regulatory initiatives on EU sustainable finance. The topic of the PNRR Research grant concerns the discipline of international and EU law on corporate sustainability, under one or more of the "ESG criteria" respectively characterizing the environmental, social and governance aspects related to business activity. Thus, the profiles of investigation will touch upon the different strategies outlined in EU law and relevant international sources in order to ensure compliance with the conditions of sustainability of corporate activity.
Information on references	Candidates must choose no less than one and no more than three contacts to support their application. These contacts must be academics or experts in the field. It will be the responsibility of the referees to send the letters of reference, within the deadline of the call, to Prof. Paola Ivaldi, to the following e-mail address: Paola.Ivaldi@unige.it as well as to the administrative contact, Dr. M. Stefania Lavezzo: dottorato.diritto@unige.it. In the application form, candidates must specify the name, qualification and place of employment of the contact persons chosen by them.
Foreign Languages	English

Further Information	During the three-year period (and, preferably, during the second year) PhD students must spend at least 6 months abroad, or in Italy at international training center, to carry out in-depth studies in their respective fields of research. Contact person for the curriculum: Prof. Paola Ivaldi e-mail: Paola.Ivaldi@unige.it Administrative contact person: Dr. M. Stefania Lavezzo e-mail: dottorato.diritto@unige.it

Course: LAW

Curriculum: PRIVATE LAW (LABOUR, PRIVATE, PRIVATE COMPARATIVE AND CIVIL PROCEDURAL LAW) (CODE 9869)

Course Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
Places:2 – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25.07.2023, h. 4.00 p.m. – at the Private Law Section of the Department of Law, Via Balbi n. 22 (Stears B, 4th floor) Genova. Candidates residing abroad may take the exam by the means of a Microsoft Teams meeting. In this case, the candidate has to express a personal preference for the online examination and communicate the e-mail account of reference. Since the session of the evaluating commission dedicated to the candidate's interviews has to be open to the public and take place in the same meeting, please consider that candidates who are unable to connect to the online meeting and maintain a connection suitable to the purpose of taking the interview for the duration of the whole meeting - due to problems occurred independently from the means used by the members of the commission - will be held absent.
Further information on how to present qualifications/publications	All relevant degrees need to flow from the curriculum vitae et studiorum, and the research project. The submission and other required materials attached could be written in Italian, English, French or Spanish.
Exam Syllabus	The interview will focus on: • a complete assessment of subjects proposed in the curriculum, based on the candidate choice, between the following areas: private law; private comparative law; labor law, civil procedure, consistent with the research areas (see next section) • the research project discussion: the project may not exceed 15000 characters including spaces (a part from bibliography)
Research Themes	Within the academic curriculum is centered on 4 research areas, substantially corresponding to the discipline "areas" (and respective "competences") therein represented. The above-mentioned areas are placed in a unified framework, characterized by common sources of law, by a multilevel system and by the interdisciplinary approach. The first research area reflects the evolution of the current private law legal framework, considering a new legal framework and the comparatist analysis. Within this perspective, the evolutive lines of the system will be analyzed with special regard to classic themes in private law The second theme rotates towards the new developments of private comparative law with special regard to property law, secured transactions, community property regimes, and NGO. The third area focuses on labour law and industrial relations, with special regard to the historic evolution and the recent reforms that affected the legal framework, within the broader scheme of EU law and social politics. The fourth area centers on the analysis of the current scenario of civil procedure and litigation – also in a comparative perspective – pre-trial/trial/evidence phase and related issues.
Information on references	Candidates must choose not less than one and not more than three referees to support their application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the call, to the chair of the curriculum committee, Prof.ssa Gisella De Simone (gisella.desimone@unige.it, as well to the administrative contact person, Dott.ssa M. Stefania Lavezzo: dottorato.diritto@unige.it. In the application for admission, candidates must specify the name, qualification and place of employment of the referees they have chosen.

Foreign Languages	English
Further Information	During the three-year period (and, preferably, in the second year), PhD students must spend abroad, or in Italy at international training centers, for a total period of at least 6 months (possibly not consecutive, but in any case - for each fraction - of adequate consistency) to carry out in-depth activities in the respective research areas. Chair of the curriculum committee: Prof. Gisella De Simone gisella.desimone@unige.it Administrative contact person: Dott.ssa M. Stefania Lavezzo e-mail: dottorato.diritto@unige.it

Course: LAW

Curriculum: PRIVATE LAW (LABOUR, PRIVATE, PRIVATE COMPARATIVE AND CIVIL PROCEDURAL LAW) (CODE 9870)

Course Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant cofunded by MUR/Department (Dipartimento di Giurisprudenza), within RAISE project; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	26.07.2023, h. 3.30 p.m. – at the Private Law Section of the Department of Law, Via Balbi n. 22 (Stears B, 4th floor) Genova. Candidates residing abroad may take the exam by the means of a Microsoft Teams meeting. In this case, the candidate has to express a personal preference for the online examination and communicate the e-mail account of reference. Since the session of the evaluating commission dedicated to the candidate's interviews has to be open to the public and take place in the same meeting, please consider that candidates who are unable to connect to the online meeting and maintain a connection suitable to the purpose of taking the interview for the duration of the whole meeting - due to problems occurred independently from the means used by the members of the commission - will be held absent.
Further information on how to present qualifications/publications	Titles are defined as: (1) the information contained in the application and *curriculum vitae et studiorum*; (2) the submission of a research project on the research topic listed below, with a maximum length of 10000 characters, including spaces, under penalty of exclusion from the competition; (3) additional titles (e.g., any publications related to the research topic of the fellowship). The application and attached documents may be written in Italian, English or French.
Exam Syllabus	The interview will focus on: a) a complete assessment of subjects proposed in the curriculum, based on the fundamental issues pertaining to private law, with references also to European Union law b) the research project discussion.
Research Themes	The research area concerns the impact of new technologies, such as robotics and artificial intelligence, on the private law system, with particular reference to the development of techniques compliant with the rules of the legal system on fundamental rights and civil liability, moving from the new order of sources, comparative analysis and European law. The topic is consistent with the research lines envisaged in the MUR - PNRR - RAISE (Robotics and AI for Socio-Economic Empowerment) project aimed at supporting a technology-based innovation ecosystem and is to be developed in the context of the project.
Information on references	Candidates must choose not less than one and not more than three referees to support their application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the call, to the chair of the curriculum committee, Prof.ssa Gisella De Simone (gisella.desimone@unige.it, as well to the administrative contact person, Dott.ssa M. Stefania Lavezzo: dottorato.diritto@unige.it. In the application for admission, candidates must specify the name, qualification and place of employment of the referees they have chosen.
Foreign Languages	English and another foreign language of a European Union country.

Further Information	During the three-year period (and, preferably, in the second year), PhD students must spend abroad, or in Italy at international training centers, for a total period of at least 6 months (possibly not consecutive, but in any case - for each fraction - of adequate consistency) to carry out in-depth activities in the respective research areas. Chair of the curriculum committee: Prof. Gisella De Simone gisella.desimone@unige.it Administrative contact person: Dott.ssa M. Stefania Lavezzo e-mail: dottorato.diritto@unige.it

Course: LAW

Curriculum: PUBLIC LAW (ADMINISTRATIVE, CONSTITUTIONAL, CRIMINAL, CRIMINAL PROCEDURAL AND TAX LAW) (CODE 8971)

Course Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM
Written Test	19 July 2023 h. 10.00, classroom Poggi (via Balbi 5 - Palazzo dell'Università)
Interview	20 July 2023 h. 14.00, classroom Poggi (via Balbi 5 - Palazzo dell'Università)
Exam Syllabus	Written test: a brief written discussion on a topic consistent with the subjects listed in this call for application (excluded Criminal Procedural Law). The interview will focus on the discussion of the written test and of the research project in order to assess the applicant's ability to develop it. In addition, the applicants will be expected to show evidence of their general knowledge about the subject area of the PhD course as well of his/her academic potential. The research proposal shall focus on topics related to the research fields listed in the appropriate section of the call for application. The research project is requested to include: the thematic area of interest (administrative law, constitutional law and comparative public law, criminal law, criminal procedure law, tax law), title of the project, state of the art, synthetic bibliography, main research question(s), planned work, expected results.
Research Themes	The proposal submitted by the candidate must relate to one of the following thematic areas: Constitutional law - Historical-institutional evolution of the contemporary state; theory of the forms of state and forms of government; constitutional review; EU constitutionalization process and national and supranational protection of fundamental rights system; domestic, EU and international sources of law; Administrative law - issues related to recent reforms in the area of administrative organization and administrative activity, also with reference to the positions taken by the jurisprudence; - topical issues in administrative justice; Criminal law - Review of penal code (issues of general and special part), even in the prospective of unification and empowerment of international cooperation tools; Review of sanctioning system; - Tax law Fair trial and due process of law. The protection of fundamental rights and the challenges of technological progress. Human rights; Legal Pluralism; Minorities Rights; Federalism and regionalism; Constitution-making power and constitutional transitions; Fairness and transparency of political public decision-making and right to information of citizens; Public powers in the global legal space.
Information on references	No letters of reference are required. Any letters of reference received in any case will not be taken into account for the purposes of scoring.
Foreign Languages	One of the following languages: English, French, German, Spanish. Knowledge will be verified during the interview.
Further Information	During the three-year PhD period (preferably during the second year), PhD students must spend a period of time abroad or at higher education institutions of an international nature in Italy, in order to carry out in-depth studies in their respective fields of research; this period must have a total duration of at least 6 months (including non-consecutive periods, but in any case of adequate duration for each fraction).

	Administrative contact:
	Dr. M. Stefania Lavezzo
	dottorato.diritto@unige.it
	Responsible for the curriculum:
	Prof. Mitja Gialuz
	mitja.gialuz@unige.it

Course: LAW

Curriculum: PUBLIC LAW (ADMINISTRATIVE, CONSTITUTIONAL, CRIMINAL, CRIMINAL PROCEDURAL AND TAX LAW) (CODE 9872)

Course Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001290006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM
Written Test	19 July 2023 h. 10.00, classroom Poggi (via Balbi 5 - Palazzo dell'Università)
Interview	20 July 2023 h. 14.00, classroom Poggi (via Balbi 5 - Palazzo dell'Università)
Exam Syllabus	Written test: a brief written discussion on a topic consistent with the subjects listed in this call for application (excluded Criminal Procedural Law). The interview will focus on the discussion of the written test and of the research project in order to assess the applicant's ability to develop it. In addition, the applicants will be expected to show evidence of their general knowledge about the subject area of the PhD course as well of his/her academic potential. The research proposal shall focus on topics related to the research fields listed in the appropriate section of the call for application. The research project is requested to include: the thematic area of interest (administrative law, constitutional law and comparative public law, criminal law, criminal procedure law, tax law), title of the project, state of the art, synthetic bibliography, main research question(s), planned work, expected results.
Research Themes	The proposal submitted by the candidate must relate to one of the following thematic areas: Constitutional law - Historical-institutional evolution of the contemporary state; theory of the forms of state and forms of government; constitutional review; EU constitutionalization process and national and supranational protection of fundamental rights system; domestic, EU and international sources of law; Administrative law - issues related to recent reforms in the area of administrative organization and administrativeactivity, also with reference to the positions takenby the jurisprudence; - topical issues in administrative justice; Criminal law - Review of penal code (issues of general and special part), even in the prospective of unification and empowerment of international cooperation tools; Review of sanctioning system; - Tax law Fair trial and due process of law. The protection of fundamental rights and the challenges of technological progress. Human rights; Legal Pluralism; Minorities Rights; Federalism and regionalism; Constitution-making power and constitutional transitions; Fairness and transparency of political public decision-making and right to information of citizens; Public powers in the global legal space.
Information on references	No letters of reference are required. Any letters of reference received in any case will not be taken into account for the purposes of scoring.
Foreign Languages	One of the following languages: English, French, German, Spanish. Knowledge will be verified during the interview.
Further Information	During the three-year PhD period (preferably during the second year), PhD students must spend a period of time abroad or at higher education institutions of an international nature in Italy, in order to carry out in-depth studies in their respective fields of research; this period must have a total duration of at least 6 months

(including non-consecutive periods, but in any case of adequate duration for each fraction).

Administrative contact:
Dr. M. Stefania Lavezzo
dottorato.diritto@unige.it

Responsible for the curriculum:
Prof. Mitja Gialuz
mitja.gialuz@unige.it

Course: ECONOMICS AND QUANTITATIVE METHODS
(CODE 9873)

Course Coordinator: Piga Claudio Antonio Giuseppe	
Department of Economics (Dipartimento di Economia – DIEC)	
Places: 6 – **Grants**: 6 (*)	
(*) 5 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 117 dated 2.3.2023 (cofunded by FinPro Liguria srl), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001660008)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	24.07.2023 – ore 09:30 on a TEAMS channel
Exam Syllabus	Discussion on the candidate's CV and of the submitted Research Project. The discussion will be held in English
Research Themes	a) The research projects for the 5 ministerial scholarships should be based on the following wide disciplinary areas: • Microeconomics • Macroeconomics and Growth Theory • Statistics • Economic History • History of Economic Thought • Behavioural Economics • Industrial Organization and Economics • Health Economics • Regional Economics • Tourism Economics • Labour Economics The candidates for these grants must submit a research project where they illustrate the theoretical foundations drawn from these disciplines and discuss the quantitative methods they plan to adopt to develop their investigation of the chosen topic. b) Regarding the scholarships financed via the Ministerial Decree 117, the project must be about the following thematic area: The internationalization process of a retail chain, its motivations, strategies, modes and timing of entry in foreign markets. Identification of the quantitative tools more suited to analyse incumbent competition and potential demand in the target country. Development of relevant case studies to illustrate the causes of unsuccessful internationalization attempts in the retail market.
Information on references	Send one reference letters in support of application to the following e-mail address: dottoratodiec@economia.unige.it
Foreign Languages	English
Further Information	For further information: https://economia.unige.it/dottorato-di-ricerca-in-economics-and-political-economy or write an e-mail to: dottoratodiec@economia.unige.it or to the PhD Coordinator, Professor Claudio Piga: claudio.piga@unige.it For both types of scholarship the successful candidates can opt to spend at most 9 months visiting a foreign university or a foreign research institute.

Course: ECONOMICS AND QUANTITATIVE METHODS
(CODE 9874)

Course Coordinator: Piga Claudio Antonio Giuseppe	
Department of Economics (Dipartimento di Economia – DIEC)	
Places: 2 – **Grants**: 2 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of FinPro Liguria Sr,l under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: **Development of an economic model of an economic area based on the SIBATER methodology** (*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of FinPro Liguria Sr,l under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: **Development of economic ecosystems for goods and services, towards a collaborative and circular economy.**	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	25.07.2023 – ore 10:30 su canale TEAMS
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): **Development of an economic model of an economic area based on the SIBATER methodology** The general goal of this project is the definition of an innovative approach to local sustainable development that, through the transfer of knowledge among different players, is aimed at implementing the European strategies on climate change, food, soil, and biodiversity so as to enhance the processes of territorial development. Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): **Development of economic ecosystems for goods and services, towards a collaborative and circular economy** Main goal is to define a socio-economic model to identify the needs (at firm and territorial level) for the ecological transition (food safety and sustainable agriculture, digital innovation). The final objective is the definition of market-based policies aimed at supporting the objective of the ecological transition. From the supply side it is necessary to identify incentive-compatible methods for technological transfer; from the consumer side it may be necessary to enhance the consumers' ability to identify suitable products and sustainable lifestyles.
Information on references	Send one reference letters in support of application to the following e-mail address: dottoratodiec@economia.unige.it
Foreign Languages	English
Further Information	The winners will have to spend an internship research and study period of 12 months at the FinPro srl headquarters. Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: TRANSLATIONAL HAEMATOLOGY (CODE 9875)

Course Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 3 – **Grants**: 3 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001300006) (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001300006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	Remote interview 20.07.2023 - 9.00
Exam Syllabus	During the on-line interview, the candidate will be evaluated with respect to the following criteria: -Knowledge of the topics to be covered (see Research Themes) -Motivation -Logical thinking -Overall vision -Aptitude to carry out an independent project -Potential for excellence and leadership qualities -Capacity to work in team Knowledge of the English language will be evaluated by a short reading and translation test.
Research Themes	- Overview of main biological features observed in blood cancers: leukemia, lymphomas and multiple myeloma - Novel therapeutic approaches for the treatment of hematologic malignancies by use of precision-medicine strategies - The role of up-to date technologies single-cell-based for tumor heterogeneity investigations - Bioinformatics approaches to investigate hematologic malignancies - Role of plasma and platelet derivatives in tissue regeneration and their applications in onco-hematology - Development of innovative technologies for mapping and scanning hematologic malignancies by generation of organoids and three-dimensional models
Information on references	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: alessio.nencioni@unige.it, ricercadimi@unige.it, to Prof. Roberto Lemoli e-mail: roberto.lemoli@unige.it Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors.
Foreign Languages	English
Further Information	Reference professors: Roberto Lemoli e-mail: roberto.lemoli@unige.it Michele Cea e-mail: michele.cea@unige.it Maddalena Mastrogiacomo e-mail: Maddalena.Mastrogiacomo@unige.it

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: ENDOCRINE AND METABOLIC DISORDERS AND OBESITY (CODE 9876)

Course Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 1– **Grants** 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	21.07.2023 9.00 in presence
Exam Syllabus	During the interview, the candidate will be evaluated based on the following criteria: • Knowledge of Research Topics • Motivation • Logical Thinking • Big-picture Vision • Ability to carry out an independent project • Potential for excellence and leadership qualities • Ability to work in a team Proficiency in the English language will be assessed through a short reading and translation test.
Research Themes	• Pathophysiology of pituitary secretion, with particular emphasis on the hypothalamic-somatotropic and prolactin axes, and the IGF system • Pathophysiology of somatostatin receptors in neuroendocrine and pituitary tumors • Epidemiological and clinical aspects of thyroid neoplastic pathology and neuroendocrine tumors • Cellular mechanisms of insulin action and other growth factors • Pathophysiology of obesity, pharmacological and nutritional strategies for a wide range of metabolic disorders
Information on references	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: alessio.nencioni@unige.it, ricercadimi@unige.it, to Prof Diego Ferone e-mail: ferone@unige.it Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
Foreign Languages	English
Further Information	Reference professors: Prof. Diego Ferone, email: ferone@unige.it Prof. Davide Maggi, email: davide.maggi@unige.it Prof. Mara Boschetti, email: mara.boschetti@unige.it Prof. Manuela Albertelli, email: manuela.albertelli@unige.it

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum RENAL, CARDIOVASCULAR, ARTERIAL HYPERTENSIVE DISEASES (CODE 9877)

Course Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 3 – **Grants**: 2 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded by Department (DIMI), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	21.07.2023 9.00 in presence
Exam Syllabus	Remote interview: during the interview, the candidate will be evaluated with respect to the following criteria: - Knowledge of the research topics - Motivation - Logical thinking - Ability to carry out an independent project - Potential for excellence and leadership qualities - Ability to work in a team - Discussion of the presented project Knowledge of the English language will be assessed through a short reading and translation test or if the interview is held in English.
Research Themes	-Hemodynamic and metabolic mechanisms involved in the development of renal and extra-renal organ damage - Cardiovascular and renal risk factors in hypertension, diabetic nephropathy, glomerulonephritis and kidney transplantation. - Atherosclerosis, diabetic nephropathy, chronic kidney disease: role of innate and acquired immune system. - Thrombosis and anticoagulation in atrial fibrillation and acute coronary syndromes. - Role of inflammatory mediators in ischemic heart disease, in ischemic stroke, in metabolic and kidney diseases and their complications.
Information on references	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: alessio.nencioni@unige.it, ricercadimi@unige.it, to Prof. Francesca Chiara Viazzi e-mail: francesca.viazzi@unige.it, and Prof. Fabrizio Montecucco e-mail: fabrizio.montecucco@unige.it Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
Foreign Languages	English
Further Information	Reference Professors: Prof.ssa Francesca Chiara Viazzi e-mail: francesca.viazzi@unige.it Prof. Fabrizio Montecucco e-mail: fabrizio.montecucco@unige.it

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum DISEASES OF THE CARDIOVASCULAR AND RESPIRATORY SYSTEMS (CODE 9878)

Course Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 1 – **Grants**: 0	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	21.07.2023 9.00 In-presence
Exam Syllabus	During the interview, the candidate will be evaluated for: • knowledge of the topics of the Curriculum • general knowledge of the research methodologies that the candidate wants to develop within the PhD program • potential of scientific independence • ability to work in group. Proficiency in English will be assessed by asking to read and translate a brief text or by holding the interview in English.
Research Themes	Cardiovascular and respiratory diseases, with special attention to: • ischemic heart disease • heart failure, including specific underlying cardiomyopathies and pulmonary hypertension • interactions between cancer and cardiovascular disease (cardio-oncology) • severe asthma • chronic obstructive pulmonary disease • interstitial lung disease • allergology and rare immune-mediated pulmonary diseases.
Information on references	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course and the coordinators of the Curriculum: Prof Alessio Nencioni, Dip. Medicina Interna e Specialità Mediche (DiMI), viale Benedetto XV, 6 (16132 Genova): alessio.nencioni@unige.it, ricercadimi@unige.it; Prof. Pietro Ameri: pietroameri@unige.it; Prof. Italo Porto: italo.porto@unige.it; Prof. Giovanni Passalacqua: passalacqua@unige.it Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
Foreign Languages	English
Further Information	Coordinators of the Curriculum: Prof. Pietro Ameri: pietroameri@unige.it Prof. Italo Porto: italo.porto@unige.it Prof. Prof. Giovanni Passalacqua: passalacqua@unige.it

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum GERONTOLOGY, NUTRITION, AND ANTI-AGING MEDICINE (CODE 9879)

Course Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 1 – **Grants:** 1 (*)	
(*) 1 grant funded by Department (DIMI), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	remote interview 20.7.2023 – 9:00 am
Exam Syllabus	Remote interview: during the interview, the candidate will be evaluated with respect to the following criteria: - Knowledge of the research topics - Motivation - Logical thinking - Ability to carry out an independent project - Potential for excellence and leadership qualities - Ability to work in a team - Discussion of the presented project Knowledge of the English language will be assessed through a short reading and translation test or if the interview is held in English.
Research Themes	-The biochemistry of aging: regulation of i) autophagy, ii) IGF-1 signaling, iii) intracellular NAD , iv) sirtuins, v) response to oxidative stress. -Physiopathology of frailty in the elderly. -Aging and tumors: biology, main clinical problems in treatment, geriatric profiling of the elderly affected by cancer. -Caloric restriction and fasting as strategies for the promotion of longevity and for the treatment of diseases: biological rationale and clinical evidence. -The personalization of treatment of senior patients in the medical or surgical setting
Information on references	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: alessio.nencioni@unige.it, ricercadimi@unige.it and to Prof. Fiammetta Monacelli e-mail: fiammetta.monacelli@unige.it, Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors.
Foreign Languages	English
Further Information	Reference professors: Prof. Alessio Nencioni alessio.nencioni@unige.it Prof.ssa Fiammetta Monacelli fiammetta.moncelli@unige.it

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: GERONTOLOGY, NUTRITION, AND ANTI-AGING MEDICINE (CODE 9880)

Course Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of CENTRO LIGURE PER LA PRODUTTIVITA' - CLP, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: **SOSTENIBILITA' AGROALIMENTARE PER LE ECCELLENZE PRODUTTIVE DELLA RISTORAZIONE E DELL'AGROALIMENTARE**	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	21.07.2023 9.00 In-presence
Exam Syllabus	During the interview, the candidate will be assessed on the basis of the following criteria: - Knowledge of the research topics - Motivation - Logical thinking - Ability to carry out an independent project - Potential for excellence and leadership qualities - Ability to work in a team - Discussion of the presented project Knowledge of the English language will be assessed through a short reading and translation test or if the interview is held in English.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): **SOSTENIBILITA' AGROALIMENTARE PER LE ECCELLENZE PRODUTTIVE DELLA RISTORAZIONE E DELL'AGROALIMENTARE** • Food chemistry and biochemistry • Physiology of nutrition • Malnutrition, epidemiology of eating habits, food geography • UN Agenda 2030 objectives, definition and evaluation of sustainability. • Principles of sustainable nutrition: characterizing elements and fields of application
Information on references	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Coordinator of the PhD program at the address: Prof. Alessio Nencioni, Dip. DIMI, viale Benedetto XV, 6 (16132 Genova) e-mail: alessio.nencioni@unige.it, ricercaadimi@unige.it and to Prof. Livia Pisciotta livia.pisciotta@unige.it. Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
Foreign Languages	English
Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: DISEASES OF THE DIGESTIVE SYSTEM AND OF THE LIVER (CODE 9881)

Course Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 3– **Grants**: 3 (*)	
(*) 3 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	21.07.2023 9.00 in presence
Exam Syllabus	Remote interview: during the interview, the candidate will be evaluated with respect to the following criteria: - Knowledge of the research topics - Motivation - Logical thinking - Ability to carry out an independent project - Potential for excellence and leadership qualities - Ability to work in a team - Discussion of the presented project Knowledge of the English language will be assessed through a short reading and translation test or if the interview is held in English.
Research Themes	- Eosinophilic Esophagitis: application of innovative diagnostic techniques. - Role of material deprivation on the outcome of patients with chronic liver disease. - Orthodontic therapeutic protocols for the morphologic, functional and esthetic restoration of the stomatognathic system. - Implant-prosthodontic rehabilitation strategies and peri-implant disease.
Information on references	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: alessio.nencioni@unige.it, ricercadimi@unige.it, to Prof. Edoardo G. Giannini e-mail: edoardo.giannini@unige.it and Prof. Maria Menini e-mail: maria.menini@unige.it Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
Foreign Languages	English
Further Information	Reference professors: Prof. Edoardo G. Giannini e-mail: edoardo.giannini@unige.it Prof. ssa Maria Menini e-mail: maria.menini@unige.it

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: TRANSLATIONAL ONCOLOGY (CODE 9882)

Course Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 3 – **Grants**: 2 (*) [1]	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded by Department (DIMI), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 [1]	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	Remote interview 20.07.2023 9.00
Exam Syllabus	- Knowledge of the research topics - Motivation - Logical thinking - Ability to carry out an independent project - Potential for excellence and leadership qualities - Ability to work in a team - Discussion of the presented project Knowledge of the English language will be assessed through a short reading and translation test or if the interview is held in English. **Grant funded by DIMI** - Knowledge of the research topics. - Knowledge of standard stochastic high-dimensional models applied to the analysis of omics data. - Knowledge of the standard bioinformatic pipelines applied to the discovery of somatic and germline variants of interest in genomic oncology. - Knowledge of the stochastic models applied to genome data, in order to infer copy number alteration profile in cancer. - Knowledge of the standard bioinformatic pipelines and stochastic models applied to the quantitative transcriptomic data in genomic oncology. - Knowledge of the standard models designed to reconstruct tumor phylogeny from molecular data. - Motivation. - Logical thinking. - Ability to carry out an independent project. - Potential for excellence and leadership qualities. - Ability to work in a team. - Discussion of the presented project. Knowledge of the English language will be assessed through a short reading and translation test or if the interview is held in English. [1]
Research Themes	- Monitoring of solid neoplasms by analysis of circulating nucleic acids. - Study of the molecular factors that are prognostic and predictive of response in solid neoplasms. - Preclinical studies of associations between new antineoplastic drugs. - Pre-clinical and clinical trials in translational oncology. - Innovative therapeutic approaches in solid tumors and haematological neoplasms. - Tumor microenvironment and immune response to tumors. - Study of the molecular and pathogenetic aspects of cardio-toxicity from antiblastic drugs. - Study of the interactions between tumor cells and the immune system through systems biology approaches. - Identification of factors that are predictive of response to immunotherapy through immunogenomic approaches **Grant funded by DIMI** - Design and improvement of new integromic models applied to omics data. - Design and improvement of stochastic models to infer tumor ploidy. - Design and improvement of stochastic high-dimensional models applied to quantitative methylomic and transcriptomic data in genomic oncology. - Design and improvement of bioinformatic methods and probabilistic models for metagenomics of oncologic interest. - Design and improvement of molecular phylogenetic models in cancer. [1]

Information on references	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: alessio.nencioni@unige.it, ricercadimi@unige.it, to Prof. Alberto Ballestrero, e-mail: aballestrero@unige.it and Prof. Lucia Del Mastro, e-mail: lucia.delmastro@unige.it Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors **Grant funded by DIMI** For grant funded by Dipartimento di Medicina Interna e Specialità Mediche: Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: alessio.nencioni@unige.it, ricercadimi@unige.it, to Prof. Alberto Ballestrero, e-mail: aballestrero@unige.it and Prof. Gabriele Zoppoli, e-mail: gabriele.zoppoli@unige.it Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors [1]
Foreign Languages	English
Further Information	Reference Professors: Prof Alberto Ballestrero, e-mail: aballestrero@unige.it Prof.ssa Lucia Del Mastro, e-mail: lucia.delmastro@unige.it **Grant funded by DIMI** Prof Alberto Ballestrero, e-mail: aballestrero@unige.it Prof. Gabriele Zoppoli, e-mail: gabriele.zoppoli@unige.it [1]

[1] 1 position with grant added following the decree of the Director of DIMI dated 30.06.2023

Course: PHYSICS AND NANOSCIENCES
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT) and National Institute for Nuclear Physics (Istituto Nazionale di Fisica Nucleare – INFN-)

Curriculum: BIO-NANOSCIENCE (CODE 9883)

Course Coordinator: Ferrando Riccardo	
Department of Physics (Dipartimento di Fisica – DIFI)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20.07.2023 – 8:30 am at the Department of Physics (Dipartimento di Fisica – DIFI), via Dodecaneso 33, Genova. If a candidate has been admitted to the interview but cannot reach in time the place of the exam, the option of a video conferencing interview is available. To request this option it is necessary to send an e-mail by 14.07.2023 to phd@fisica.unige.it. The details about the connection will be in the reply to the e-mail request.
Further information on how to present qualifications/publications	Each candidate must submit a description of the research project he/she intends to carry out during the three years of the PhD course.The project must be written in English. A maximum length of 6000 characters including spaces is allowed.
Exam Syllabus	- Discussion about the qualification of the candidate. - Discussion of the Master's thesis. - Presentation and discussion of the proposed research project. - Interview on basic physics topics (general physics, modern physics). - Verification of knowledge of the English language.
Research Themes	Research topics of the grant funded by IIT: • "Nanocrystal-plasmonic hybrid devices for photocatalytic applications". The candidate will create and characterize, by means of stationary and ultrafast spectroscopy techniques, new plasmon nanostructures, with the specific aim of realizing hybrid systems in the regime of strong coupling between light and semiconductor nanocrystals. The investigation of the photocatalytic performance will guide the optimization of the final nano-hybrid device. Contact: Andrea Toma – andrea.toma@iit.it
Information on references	Candidates must choose up to three referees to support their application. These contacts must be university professors or experts in the field. It is preferable that at least one contact belongs to the University of Genoa or to the affiliated research bodies (CNR/INFN/IIT). The referents will be responsible for sending the reference letters, preferably written in English, within the deadline of the call.The letters must be addressed to the attention of the course coordinator Prof. Riccardo Ferrando to the e-mail address: phd@fisica.unige.it.The subject of the e-mail must be: PHD REFERENCE LETTER – BIONANOSCIENCES.
Foreign Languages	Excellent knowledge of both spoken and written English. A very basic knowledge of Italian is desirable.

Course: PHYSICS AND NANOSCIENCES

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT) and National Institute for Nuclear Physics (Istituto Nazionale di Fisica Nucleare – INFN)

Curriculum: PHYSICS (CODE 9884)

Course Coordinator: Ferrando Riccardo	
Department of Physics (Dipartimento di Fisica – DIFI)	
Places: 18 – **Grants**: 18 (*)	
(*) 7 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 4 grants funded within D.M. 118 dated 2.3.2023 (within Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001310006) (*) 2 grants funded by INFN, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 5 grants funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20.07.2023 – 8:30 am at the Department of Physics (Dipartimento di Fisica – DIFI), via Dodecaneso 33, Genova. If a candidate has been admitted to the interview but cannot reach in time the place of the exam, the option of a video conferencing interview is available. To request this option it is necessary to send an e-mail by 14.07.2023 to phd@fisica.unige.it. The details about the connection will be in the reply to the e-mail request.
Further information on how to present qualifications/publications	Each candidate must submit a description of the research project he/she intends to carry out during the three years of the PhD course.The project must be written in English. A maximum length of 6000 characters including spaces is allowed.
Exam Syllabus	- Discussion about the qualification of the candidate. - Discussion of the Master's thesis. - Presentation and discussion of the proposed research project. - Interview on basic physics topics (general physics, modern physics). - Verification of knowledge of the English language.
Research Themes	The research lines at DIFI include various aspects of Physics, among which - Theoretical and Experimental Physics of Fundamental Interactions - Theoretical and Experimental Physics of Condensed Matter - Astronomy and Astrophysics - Physics Applied to the Environment, to Biology and Medicine Research topics of the scholarships funded by IIT: • "Development of a computational multimodal approach based on super resolved fluorescence and label-free microscopy to study cellular systems at the nanoscale". The research project deals with the development of a computational multimodal approach to combine super resolved fluorescence and label-free microscopy. The project will focus on the utilization of STED and MINFLUX as fluorescence methods and on quantitative phase contrast and Mueller polarimetry for the label-free side. Case studies will be related to the imaging of chromatin organization in the cell nucleus at molecular scale. References: Diaspro, A., Bianchini, P.. Riv. Nuovo Cim. 43, 385–455 (2020). DOI: 10.1007/s40766-020-00008-1; Le Gratiet, A.; Mohebi, A.; Callegari F.; Bianchini, P.; Diaspro, A., Appl. Sci. 2021, 11, 1632. DOI: 10.3390/app11041632 Contact: Alberto Diaspro - diaspro@fisica.unige.it with subject 'PhD-2023-MULTIMICRO' • "Optical microscopy maging and tracking of fluorescent molecules at molecular level using minimal photon fluxes". The project deals with the use and characterization of optical microscopy images based on MINFLUX, a new and powerful concept for localizing photon emitters in space using minimal photon fluxes and maximising the image information content. . The MINFLUX microscope will be used to image a broad range of biological samples with unprecedented 3D resolution. It will be possible to study the motion of single molecules in living cells with an acquisition rate 100 times faster than conventional methods. References: Diaspro, A., Bianchini, P., Riv. Nuovo Cim. 43, 385–455 (2020) DOI: 10.1007/s40766-020-00008-1; Balzarotti F. et al., Science355,606-612(2017) DOI:10.1126/science.aak9913

Contact: Alberto Diaspro - diaspro@fisica.unige.it with subject 'PhD-2023-MINFLUX2023'

- "Novel tools for human brain investigations: from hybrid brain interfaces to RNA/protein dynamics".
  The project aims to develop a wide class of multi-functional sensors across the fields of nano-photonics, nano-electronics, and biophysics. By interfacing these nanostructured sensors with living human neurons we want to make an effective Hybrid Brain-Sensors interface. In addition, advanced optical and electrical nano-sensing at single molecule level will be developed so to provide novel tools in RNA/Protein investigations of brain functions.
  Contact: Francesco De Angelis - francesco.deangelis@iit.it

• "Control and modification of the exciton properties of semiconductor nanocrystals by light-matter hybridization".
The candidate will work on the design and optimization of new nanophotonic devices based on the integration between semiconductor nanocrystals and plasmonic metasurfaces. The activity will also concern the investigation of the photophysical processes that regulate the dynamics of the system under strong light-matter coupling.
Contact: Andrea Toma - andrea.toma@iit.it

- Title: Innovative nanocavities coupled to emissive nanomaterials for light-matter interaction
This PhD project will target the fabrication of the photonic cavities and explore different strategies for the integration of emitting nanomaterials, with the aim to discover novel approaches that can boost the performance of optoelectronic devices in light emission and photodetection. We are looking for highly motivated candidates with a degree in Physics, Material Science, Engineering or Nanotechnology that are keen to work in an interdisciplinary environment. Experience in nanofabrication, optoelectronic spectroscopies, and theoretical modeling are considered as a plus.
Information on the activities of the Optoelectronics Group and related publications can be found at: https://www.iit.it/it/web/optoelectronics
Contact: Roman Krahne - Roman.krahne@iit.it

Research topics for fellowships D.M. 118 02.03.2023

• "Computational design of superplasticising polymers for low environmental impact ceramics".
The project aims to optimize the structure and composition of new superplasticizer polymers, which can be used in the production of ceramic materials with low environmental impact. The candidate will use computational tools, such as models and multi-scale simulation tools, to study the physical (eg, rheological) properties of colloidal suspensions. The project will be carried out in close collaboration with IRCER/CNRS (Fr) and the University of Limoges (Fr), where the candidate will spend approximately half of the duration of the fellowship.
Contact: Prof. Giulia Rossi – giulia.rossi@unige.it

• "Identification of jets from charm quarks, search for H->cc decay in the VH production channel, and machine learning algorithms for a global reconstruction, using data from the ATLAS experiment at the LHC".
The project aims to enhance the jet flavor investigation algorithms identified by the ATLAS experiment at LHC (CERN, Geneva), exploiting innovative techniques based on Machine Learning and adopting a global approach to their reconstruction. In particular, the interest is placed on jets produced by the hadronization of charm quarks and aimed at increasing the statistical significance for the search for the decay channel of a Higgs boson in pairs of charm quarks. The studies will be carried out in collaboration with the Max Planck Institute for Physics (Munich, Germany).
Contact: Carlo Schiavi – carlo.schiavi@ge.infn.it

• "Modern artificial intelligence techniques and their application to the physics analysis of the ATLAS experiment".
The analysis of the vast dataset of high-energy hadronic collisions collected by the ATLAS experiment, at the CERN laboratory in Geneva, is a unique test bed for the development and testing of innovative artificial intelligence techniques, such as symbolic regression, generative, differential programming etc. This project proposes the use of these or other AI techniques for measurements of interest for Standard Model physics to be performed under complex experimental conditions, such as final states with high background contamination or particular

	kinematic configurations. Contacts: Federico Sforza – federico.sforza@unige.it, Andrea Coccaro – andrea.coccaro@ge.infn.it • "Neutrino Physics and Search for Dark Matter with liquid argon detectors". The candidate will carry out his research activity in the field of the study of neutrino oscillations with liquid argon detectors or for the search for dark matter by means of time drift chambers with liquid argon in double phase. He will be involved in Montecarlo simulation activities, laboratory tests of innovative devices, construction of experimental apparatuses at the Fermilab Laboratories in the United States or at the Gran Sasso National Laboratories in Italy. Contact: Marco Pallavicini – marco.pallavicini@unige.it
Information on references	Candidates must choose up to three referees to support their application. These contacts must be university professors or experts in the field. It is preferable that at least one contact belongs to the University of Genoa or to the affiliated research bodies (CNR/INFN/IIT). The referents will be responsible for sending the reference letters, preferably written in English, within the deadline of the call.The letters must be addressed to the attention of the course coordinator Prof. Riccardo Ferrando to the e-mail address: phd@fisica.unige.it. The subject of the e-mail must be: PHD REFERENCE LETTER – PHYSICS.
Foreign Languages	Excellent knowledge of both spoken and written English. A very basic knowledge of Italian is desirable.

Course: PHYSICS AND NANOSCIENCES
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT) and National Institute for Nuclear Physics (Istituto Nazionale di Fisica Nucleare – INFN-)

Curriculum: APPLIED SUPERCONDUCTIVITY (CODE 9885)

Course Coordinator: Ferrando Riccardo	
Department of Physics (Dipartimento di Fisica – DIFI)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant cofunded by MUR/Department (DIFI), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20.07.2023 – 8:30 am at the Department of Physics (Dipartimento di Fisica – DIFI), via Dodecaneso 33, Genova. If a candidate has been admitted to the interview but cannot reach in time the place of the exam, the option of a video conferencing interview is available. To request this option it is necessary to send an e-mail by 14.07.2023 to phd@fisica.unige.it. The details about the connection will be in the reply to the e-mail request.
Further information on how to present qualifications/publications	Each candidate must submit a description of the research project he/she intends to carry out during the three years of the PhD course.The project must be written in English. A maximum length of 6000 characters including spaces is allowed.
Exam Syllabus	- Discussion about the qualification of the candidate. - Discussion of the Master's thesis. - Presentation and discussion of the proposed research project. - Interview on basic physics topics (general physics, modern physics). - Verification of knowledge of the English language.
Research Themes	Themes on superconductivity Contact: Marina Putti e-mail putti@fisica.unige.it
Information on references	Candidates must choose up to three referees to support their application. These contacts must be university professors or experts in the field. It is preferable that at least one contact belongs to the University of Genoa or to the affiliated research bodies (CNR/INFN/IIT). The referents will be responsible for sending the reference letters, preferably written in English, within the deadline of the call.The letters must be addressed to the attention of the course coordinator Prof. Riccardo Ferrando to the e-mail address: phd@fisica.unige.it.The subject of the e-mail must be: PHD REFERENCE LETTER – APPLIED SUPERCONDUCTIVITY.
Foreign Languages	Excellent knowledge of both spoken and written English. A very basic knowledge of Italian is desirable.

**Course: CLINICAL AND EXPERIMENTAL IMMUNOLOGY
(CODE 9886)**

Course Coordinator: Sivori Simona	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 6 – **Grants**: 6 (*)	
(*) 3 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
(*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001320006)	
(*) 1 grant funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001320006)	
(*) 1 grant funded within D.M. 117 dated 2.3.2023 (cofunded by IRCCS Ospedale Policlinico S. Martino di Genova) under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001680008)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 19, 2023 – at 9.00 a.m (Italian time). The interview will take place at 9.00 am (Italian time) by videoconference on Microsoft Teams. Details will be provided to applicants via e-mail after the registration closes. The candidate must have a reliable internet connection to allow the interview to take place.
Further information on how to present qualifications/publications	Candidates must submit: - the pdf file of their Bachelor's and Master's degree and/or equivalents (BS, Master) - a project proposal in the field of Clinical and Experimental Immunology, and relating to one of the indicated topics - the curriculum vitae et studiorum including all the already done technical scientific studies/activities pertinent to the doctoral program - the list and pdf files of scientific publications - certifications related to periods spent in research laboratories - up to 3 recommendation letters from university professors or recognized experts in the field supporting the candidate.
Exam Syllabus	Presentation and discussion of the submitted project proposal, evaluation of the candidate's preparation on basic and clinical immunology topics. Evaluation of English language skills by reading, translating and understanding part of a scientific article.
Research Themes	Study of the mechanisms underlying the formation of Tertiary Lymphoid Structures (TLS) and possible role of innate lymphoid cells (ILC) (*research theme for grant funded within D.M. 118-PNRR*) Application of Mass Spectrometry-Cytometry and Imaging in the field of biomedical research and personalized diagnosis to enhance diagnostic performance (*research theme for grant funded within D.M. 118-PA*) Role of the immune system in pathologies of the central nervous system using in vivo multiphoton imaging techniques (*research theme for grant funded within D.M. 117*). *Research themes for the remaining PhD positions:* - Innate response and characterization of Innate Immunity cells (Natural Killer cells and ILCs) - Adaptive response and characterization of T lymphocytes - Autoimmunity - Cancer immunology - Immunology of infections
Information on references	The Candidates must choose up to three referees to endorse their candidature. The referees, chosen among university professors or recognized experts in the field, amust send the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to the Coordinator of the Doctoral Course, Prof. Simona Sivori, at the following address: dottorato.immunologia@unige.it The candidate must state in the application the name, status and current position of the referees chosen.
Foreign Languages	English

Further Information	Doctoral secretariat: Dr. Eva Baraldi and Dr. Chiara Marangoni - dottorato.immunologia@unige.it

Course: CLINICAL AND EXPERIMENTAL IMMUNOLOGY
(CODE 9887)

Course Coordinator: Sivori Simona	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Bruschettini srl, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Study of the immune response to bacterial lysate and its relation to infection prevention	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM
Interview	July 19, 2023 – at 9.00 a.m (Italian time). The interview will take place at 9.00 am (Italian time) by videoconference on Microsoft Teams. Details will be provided to applicants via e-mail after the registration closes. The candidate must have a reliable internet connection to allow the interview to take place.
Further information on how to present qualifications/publications	Candidates must submit: - the pdf file of their Bachelor's and Master's degree and/or equivalents (BS, Master) - a project proposal related to the indicated topic - the curriculum vitae et studiorum including all the already done technical scientific studies/activities pertinent to the doctoral program - the list and pdf files of scientific publications - certifications related to periods spent in research laboratories - up to 3 recommendation letters from university professors or recognized experts in the field supporting the candidate.
Exam Syllabus	Presentation and discussion of the submitted project proposal, evaluation of the candidate's preparation on basic and clinical immunology topics. Evaluation of English language skills by reading, translating and understanding part of a scientific article.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): Study of the immune response to bacterial lysate and its relation to infection prevention
Information on references	The Candidates must choose up to three referees to endorse their candidature. The referees, chosen among university professors or recognized experts in the field, amust send the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to the Coordinator of the Doctoral Course, Prof. Simona Sivori, at the following address: dottorato.immunologia@unige.it The candidate must state in the application the name, status and current position of the referees chosen.
Foreign Languages	English
Further Information	Doctoral secretariat: Dr. Eva Baraldi and Dr. Chiara Marangoni - dottorato.immunologia@unige.it Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

Course: COMPUTER SCIENCE AND SYSTEMS ENGINEERING

Curriculum: COMPUTER SCIENCE (CODICE 9888)

Course Coordinator: Delzanno Giorgio	
Department of Informatics, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 21 (°) - **Grants:** 20 (*) [1]	
(*) 4 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(*) 1 grant funded by DIBRIS, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 [1]	
(*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001330006)	
(*) 2 grant funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001330006)	
(*) 12 grant funded within D.M. 117 dated 2.3.2023 (cofunded by: 1) Gter S.r.l., 2) C&C Sistemi S.r.l., 3) Pirelli Tyre, 4) Snoots S.r.l., 5) e 6) Circle Garage S.r.l., 7) IRCCS Gaslini, 8), 9), e 10) Technoleader S.r.l. e COBO S.p.A.,11) e 12) Leonardo S.p.A.), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001750008)	
(°) 1 position reserved for Manydesign s.r.l. employees	

	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	Interviews are scheduled on 2023/7/24 at 9.00 AM (CEST) at DIBRIS, via Dodecaneso 35, Genoa. The schedule of video conference interviews will be fixed according to the availability of the commission members.
Further information on how to present qualifications and publications	**Curriculum vitae:** candidates must present a curriculum vitae with clear indications on the qualifications acquired with relative grades, research experience, publications, awards and work experience. **Research project:** candidates must submit a research project with clear indication of the following information: type of grant (University of Genoa/MUR, PNRR M. D. 118, PNRR M. D. 117, Place reserved for employees); research theme or macro-theme (see specific section of this notice); reference DIBRIS research group and company that cofinances the position. **Instructions and suggestions** for the submission of the research proposal are available at the URL https://csse.phd.unige.it/admission
Exam Syllabus	The comparative procedure consists of - an assessment of the candidate qualifications - an interview to verify background and knowledge of the candidate as well as motivations and goals of the research proposal submitted with the application.

Research Themes	The research project must contain a clear indication of the type of grant of interest to the candidate (University of Genoa/MUR, PNRR M.D. 118, PNRR D.M. 117, Positions reserved for employees), the research topic, and, possibly, the DIBRIS research group of reference and/or company co-financing the position.
	 _____
	
	 Research topics for 4 University of Genoa/MUR grants and 3 grants funded by PNRR M.D. 118
	
	 The projects proposed by DIBRIS research groups for University of Genoa/MUR grants and MD 118 grants are described at the URL: https://csse.phd.unige.it/admission
	
	 For **the 4 grants co-financed by the University of Genoa and MUR**, research projects will also be taken into consideration which in any case fall within the research lines of the Computer Science curriculum (see https://csse.phd.unige.it/).
	
	 The **3 grants funded by PNRR M.D. 118 dated 03.02.2023** are in any case bound to projects on the following macro-themes:
	
	   1 grant on investment-related topics 4.1 "Generic related to the PNRR"
	   1 grant on topics related to Investment 4.1 "Public Administration"
	   1 grant on topics related to Investment 4.1 "Public Administration"

	Research topic for 1 grant funded by DIBRIS N. 1 grant funded by DIBRIS on the theme: "Innovative teaching methods in computer science" [1] **Research topics for 10 grants funded by PNRR M.D. 117:** **N. 1 grant** cofunded by Gter S.r.l. on the theme: "GNSS precise and affordable positioning in harsh environment". **N. 1 grant** cofunded by C&C Sistemi S.r.l. on the topic: "Introduction of artificial intelligence in the PA workflow management software system in response to citizens' requests, in collaboration". **N. 1 grant** cofunded by Pirelli Tyre S.p.A. on the theme: "Physics informed machine learning for rubber compound material design". **N. 1 grant** cofunded by Snoots S.r.l. on the theme: "Deep learning approaches to support diagnosis in the veterinary domain". **N. 1 grant** cofunded by Circle Garage S.r.l. on the theme: "Advanced approaches for multi-robot coordination". **N. 1 grant** cofunded by Circle Garage S.r.l. on the topic: "Efficiency techniques for analyzing speech signals for intelligent support agents". **N. 1 grant** cofunded by IRCCS Gaslini on the theme: "Digital transformation and systems integration in the Health Sector". **N. 1 grant** cofunded by Technoleader S.r.l. and COBO S.p.A.: "Machine safety, mobile vehicle automation and runtime verification" **N. 1 grant** cofunded by Technoleader S.r.l. and COBO S.p.A.: "Use of cameras for security purposes and/or automation of mobile vehicles" **N. 1 grant** cofunded by Technoleader S.r.l. and COBO S.p.A.: "IT Security of interconnected mobile devices". **N. 1 grant** cofunded by Leonardo S.p.A.: "Parallel batch processing for Trino workflows on GPUs". **N. 1 grant** cofunded by Leonardo S.p.A.: "A Detailed study toward adaptive optimization of data intensive workflows based on Trino and Spark". For **more details** (abstracts/contacts), refer to the URL: https://csse.phd.unige.it/admission _____ **Research topic for 1 place reserved for Manydesign S.r.l. employees:** **N. 1 plac**e reserved for Manydesign s.r.l. employees on the topic: "Definition of a model for semi-automatic creation and updating of skills and competences inside a Company" For **more details** (abstracts/contacts), refer to the URL: https://csse.phd.unige.it/admission
Information on references	Candidates must choose no less than one and no more than three contact persons to support their candidacy. These referents must be university professors or experts in the field. It will be the referents' responsibility to send the reference letters, within the deadline of the call, to the attention of the Coordinator of the PhD course at the e-mail address: phd.compsci@dibris.unige.it. In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons chosen by them. The reference letter template is available at the URL: https://csse.phd.unige.it/admission

Language	English
Other Information	Period abroad: PNRR DM 117 e 118: at least 6 months

[1] 1 position with grant added following the minutes of DICCA Council dated 12.06.2023

Course: COMPUTER SCIENCE AND SYSTEMS ENGINEERING

Curriculum: COMPUTER SCIENCE (CODICE 9889)

Course Coordinator: Delzanno Giorgio	
Department of Informatics, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 2 - **Grants**: 2 (*)	
(*)1 grant funded by **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration with and cofunded by Leonardo S.p.A., subject to approval of the project and its financing; the annual amount of the grant, gross of social security contributions to be paid by the recipient, is €16,243. Project: Trustworthy AI applied to certification AI System" (*) 1 grant funded by **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration with and cofunded by Esaote S.p.A., subject to approval of the project and its financing; the annual amount of the grant, gross of social security contributions to be paid by the recipient, is €16,243. Project: Machine Learning for US Imaging	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Evaluation of qualifications and professional scientific curriculum • Written test (research project) • Interview which includes the illustration of the research activities of interest to the candidate, also on the basis of the previous activities declared in the scientific-professional curriculum
Interview	Interviews are scheduled on 2023/7/24 at 9.00 AM (CEST) at DIBRIS, via Dodecaneso 35, Genoa. The schedule of video conference interviews will be fixed according to the availability of the commission members.
Further information on how to present qualifications and publications	**Curriculum vitae:** candidates must present a curriculum vitae with clear indications on the qualifications acquired with relative grades, research experience, publications, awards and work experience. **Research project:** candidates must submit a research project with clear indication of the following information: type of grant (University/MUR, Ministerial Decree 118); research theme or macro-theme (see specific section of this notice); reference DIBRIS research group and company that cofinances the position. **Instructions and suggestions** for the submission of the research proposal are available at the URL https://csse.phd.unige.it/admission .
Exam Syllabus	The comparative procedure consists of - an assessment of the candidate qualifications - an interview to verify background and knowledge of the candidate as well as motivations and goals of the research proposal submitted with the application.
Research Themes	**Research topics for 2 grants cofunded by Regione Liguria:** 　**N. 1 grant** co-funded by Leonardo S.p.A: "Trustworthy AI applied to certification AI System" 　**N. 1 grant** co-funded by Esaote S.p.A.: "Machine Learning for US Imaging" For more details (abstracts/contacts), please refer to the URL: https://csse.phd.unige.it/admission
Information on references	Candidates must choose no less than one and no more than three contact persons to support their candidacy. The referents must be university professors or experts in the field. It will be the referents' responsibility to send the reference letters, within the deadline of the call, to the attention of the Coordinator of the PhD course at the e-mail address: phd.compsci@dibris.unige.it. In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons chosen by them. The reference letter template is available at the URL: https://csse.phd.unige.it/admission
Language	English

Other information	Period abroad: 0 months

Course: COMPUTER SCIENCE AND SYSTEMS ENGINEERING

Curriculum: SYSTEMS ENGINEERING (CODICE 9890)

Course Coordinator: Giorgio Delzanno	
Department of Informatics, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 4 - **Grants**: 4 (*)	
(*) 2 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Transizioni digitali ed ambientali), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001530006) (*) 1 grant funded within D.M. 117 dated 2.3.2023 (cofunded by: 1) Tema S.r.l.), under condition to the approval of Ministerial funding; the annual gross amountt of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001750008)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	Interviews are scheduled on 2023/7/24 at 9.00 AM (CEST) at DIBRIS, via Opera Pia 13, Genoa. The schedule of video conference interviews will be fixed according to the availability of the commission members.
Further information on how to present qualifications and publications	**Curriculum vitae:** candidates must present a curriculum vitae with clear indications on the qualifications acquired with relative grades, research experience, publications, awards and work experience. **Research project:** candidates must submit a research project with clear indication of the following information: type of grant (University/MUR, Ministerial Decree 118); research theme or macro-theme (see specific section of this notice); reference DIBRIS research group and company that cofinances the position. **Instructions and suggestions** for the submission of the research proposal are available at the URL https://csse.phd.unige.it/admission .
Exam Syllabus	The comparative procedure consists of - an assessment of the candidate qualifications - an interview to verify background and knowledge of the candidate as well as motivations and goals of the research proposal submitted with the application.
Research Themes	The research project must contain a clear indication of the type of grant of interest to the candidate (University/MUR, PNRR DM 118), the research topic or macro-topic and, possibly, the DIBRIS research group of reference and/or company co-financing the position. **Research topics for 2 grants funded by the University of Genoa/MUR, and 1 grant funded by the PNRR M.D. 118** The projects proposed by DIBRIS research groups for University/MUR grants and MD 118 grants are described at the URL: hhttps://csse.phd.unige.it/admission For **the 2 grants co-financed by the University and MUR**, research projects will also be taken into consideration which in any case fall within the research lines of the Systems Engineering curriculum (see https://csse.phd.unige.it/). The **grants funded by PNRR M.D. 118** are in any case bound to projects on the following macro-theme: **N. 1 grant** on investment-related topics 3.4 "**Digital and environmental transition**" **Research topics for 1 grant funded by PNRR M.D. 117:** **N. 1 grant** cofunded by Tema S.r.l. on the theme: "Analysis, planning, integration and monitoring of mobility services: innovative models, methods and tools for the mobility of the future ". For more details (abstracts/contacts), refer to the URL: https://csse.phd.unige.it/admission

	For more details (abstracts/contacts), refer to the URL: https://csse.phd.unige.it/admission
Information on references	Candidates must choose no less than one and no more than three contact persons to support their candidacy. The referents must be university professors or experts in the field. It will be the referents' responsibility to send the reference letters, within the deadline of the call, to the attention of the Coordinator of the PhD course at the e-mail address: phd.syseng@dibris.unige.it. In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons chosen by them. The reference letter template is available at the URL: https://csse.phd.unige.it/admission
Language	English
Other Information	Curriculum coordinator Prof.ssa Simona Sacone Period abroad: PNRR DM 117 e 118: at least 6 months

Course: COMPUTER SCIENCE AND SYSTEMS ENGINEERING

Curriculum: SYSTEMS ENGINEERING (CODICE 9891)

Coordinator: Giorgio Delzanno	
Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS)	
Places: 1 - **Grants**: 1 (*)	
(*) 1 grant funded by **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and cofunded by Engineering S.p.A., subject to approval of the project and its financing; the annual amount of the grant, gross of social security contributions to be paid by the recipient, is €16,243. Project: "Implementation of a Decision Support System for the efficiency of the management of an integrated Water Management System"	
Comparative assessment procedure	FOR TITLES AND EXAMINATION • Evaluation of qualifications and professional scientific curriculum • Written test (research project) • Interview which includes the illustration of the research activities of interest to the candidate, also on the basis of the previous activities declared in the scientific-professional curriculum
Interview	Interviews are scheduled on 2023/7/24 at 9.00 AM (CEST) at DIBRIS, via Opera Pia 13, Genoa. The schedule of video conference interviews will be fixed according to the availability of the commission members.
Further information on how to present qualifications and publications	**Curriculum vitae:** candidates must present a curriculum vitae with clear indications on the qualifications acquired with relative grades, research experience, publications, awards and work experience. **Research project:** candidates must submit a research project with clear indication of the following information: type of grant (University/MUR, Ministerial Decree 118); research theme or macro-theme (see specific section of this notice); reference DIBRIS research group and company that cofinances the position. **Instructions and suggestions** for the submission of the research proposal are available at the URL https://csse.phd.unige.it/admission .
Comparative assessment procedure	FOR TITLES AND EXAMINATION • Evaluation of qualifications and professional scientific curriculum • Written test (research project) • Interview which includes the illustration of the research activities of interest to the candidate, also on the basis of the previous activities declared in the scientific-professional curriculum
Research Themes	**Research topic for 1 grant cofunded by Regione Liguria:** **N. 1 grant** cofunded byEngineering S.p.A.: "Implementation of a Decision Support System for the efficiency of the management of an integrated Water Management System" For more details (abstracts/contacts), please refer to the URL: https://csse.phd.unige.it/admission
Information on references	Candidates must choose no less than one and no more than three contact persons to support their candidacy. The referents must be university professors or experts in the field. It will be the referents' responsibility to send the reference letters, within the deadline of the call, to the attention of the Coordinator of the PhD course at the e-mail address: phd.syseng@dibris.unige.it. In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons chosen by them. The reference letter template is available at the URL: https://csse.phd.unige.it/admission
Language	English
Other information	Curriculum coordinator Prof.ssa Simona Sacone Period abroad: 0 months

Course: ENGINEERING OF MODELS, MACHINE AND SYSTEMS FOR ENERGY, ENVIRONMENT AND TRANSPORT

Curriculum: MACHINES AND SYSTEMS FOR ENERGY, ENVIRONMENT AND PROPULSION (CODE 9892)

Course Coordinator: Cianci Roberto	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)	
Places: 5 – **Grants:** 5 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant cofunded by MUR/Department (DIME), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Transizioni digitali e ambientali), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001540006) (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001340006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Research Themes	The research topics of the Curriculum concern energy production and aeronautical propulsion. They have experimental, numerical and theoretical nature and concern: 1. Turbomachinery and combustors for power generation and aeronautical propulsion: • flow analysis in plant components and turbomachinery; • design of driving and operating turbomachinery; • unsteady aerodynamics of burners for turbogas plants; • mechanisms for generating aerodynamic noise in turbomachinery; - study of combustion processes. 2. Internal combustion engines for automotive traction and ship propulsion: • analysis of road vehicle emissions and modeling of the diffusion of pollutants in the environment; • study of the functional characteristics of components of the intake and exhaust systems of automotive engines; • advanced turbocharging systems for automotive applications; • optimization of performance, consumption and polluting emissions of engines for road traction. 3. Energy generation systems based on traditional and renewable primary sources: • analysis of the static and dynamic behavior of energy plants; • creation of simulators in simulated and real time; • analysis and optimization of complex and innovative systems for energy production. The topics covered present important connections with transport systems, with modeling aspects related to Mathematical Physics and numerical processing, with controls and signal processing.
Information on references	Candidates must choose not less than one and not more than three referees to support their candidacy. on references These referents must be university professors or experts in the subject. It will be the responsibility of the contact persons to send the reference letters, within the deadline of the call, to: Prof. Daniele Simoni DIME Via Montallegro 1 16145 Genoa daniele.simoni@unige.it
Foreign Languages	English language
Further Information	For further information, please contact the PhD Coordinator Prof. Roberto Cianci for information roberto.cianci@unige.it, or Prof. Daniele Simoni daniele.simoni@unige.it

Course: ENGINEERING OF MODELS, MACHINE AND SYSTEMS FOR ENERGY, ENVIRONMENT AND TRANSPORT

Curriculum: MACHINES AND SYSTEMS FOR ENERGY, ENVIRONMENT AND PROPULSION (CODE 9893)

Course Coordinator: Roberto Cianci	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of di Stara Glass Spa, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Studio dei processi di combustione per configurazioni innovative di forni fusori per vetro	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM - Evaluation of the scientific curriculum vitae - Evaluation of a relation describing the research program - Interview on the research activity planned to be carried out, also based on the skills and expertise highlighted into the curriculum vitae
Interview	18 July 2023, 10:00 am, in person at meeting room - sezione MASET of DIME
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): Studio dei processi di combustione per configurazioni innovative di forni fusori per vetro
Information on references	Candidates should presenta up to three reference letters from academic Professors or experts in the field. Reference Letters should be sent to: Prof. Daniele Simoni DIME Via Montallegro 1 16145 Genova daniele.simoni@unige.it
Foreign Languages	English
Further Information	Prof. Roberto Cianci roberto.cianci@unige.it Prof. Daniele Simoni daniele.simoni@unige.it Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

Course: ENGINEERING OF MODELS, MACHINE AND SYSTEMS FOR ENERGY, ENVIRONMENT AND TRANSPORT

Curriculum: MATHEMATICAL ENGINEERING AND SIMULATION (CODE 9894)

Course Coordinator: Roberto Cianci	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)	
Places: 4 – **Grants**: 6 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Pubblica amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001340006) (*) 1 grant funded within D.M. 117 dated 2.3.2023 (Co-founded by: Benvenuto ed Associati), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001670008)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Research Themes	The following research topics are proposed within the curriculum: 1. Continuous and discrete mathematical models for the thermo-fluid dynamics of energy systems; fluid mechanics and related equations. Problems of acoustics and wave propagation in fluid and solid media using "analogous instruments". Metamaterials. The Dirac field in interaction. 2. Methods of development and analysis of discrete and continuous models for the simulation of systems. Numerical analysis tools and problems; development of simulators and simulator federations for complex systems. Definition of objectives, formalization, implementation solutions, integration, verification, validation, testing, accreditation and execution of real-time, fast-time and slow time models. 3. Physical-mathematical models with finite or infinite degrees of freedom, interaction field theory. Geometric and analysis techniques. Diffusion problems and resolution techniques. Environmental problems of public safety for the fight against terrorism. 4. Mechanics of solids. Numerical and control techniques. 5. Development of aggregate and operational programming systems, realized through finite capacity tools, with discrete event simulation techniques. Optimal state estimation for linear and nonlinear systems. 6. Development and application of artificial intelligence techniques. Supporting geometric methodologies for the development of simulators in virtual reality environments. Simulation applied to the logistics and transport sector for supply chain management for decision support. 7. Simulation applied to the military, tactical and strategic sector.
Information on references	In the admission application, candidates must indicate the name, qualification and place of employment of the contact persons chosen by them.
Foreign Languages	English
Further Information	For further information, please contact Prof. Patrizia Bagnerini: patrizia.bagnerini@unige.it

Course: ENGINEERING OF MODELS, MACHINE AND SYSTEMS FOR ENERGY, ENVIRONMENT AND TRANSPORT

Curriculum: MATHEMATICAL ENGINEERING AND SIMULATION (CODE 9895)

Course Coordinator: Roberto Cianci	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)	
Places: 2 – **Grants**: 2 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of di Sim4future, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Ai and advanced simulation for decision making (*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of di EMAC srl, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Sviluppo di Decision support System (DSS) a supporto dei nuovi processi di cura e assistenza dei pazienti con disabilità sensori-motorie o cognitive erogati attraverso tecnologie innovative per la riabilitazione, il monitoraggio e l'assistenza.	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM - Evaluation of the scientific curriculum vitae - Evaluation of a relation describing the research program - Interview on the research activity planned to be carried out, also based on the skills and expertise highlighted into the curriculum vitae
Interview	18 July 2023, 10:00 am, in person at meeting room - sezione MASET of DIME
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): - Ai and advanced simulation for decision making - Sviluppo di Decision support System (DSS) a supporto dei nuovi processi di cura e assistenza dei pazienti con disabilità sensori-motorie o cognitive erogati attraverso tecnologie innovative per la riabilitazione, il monitoraggio e l'assistenza
Information on references	Candidates should present up to three reference letters from academic Professors or experts in the field. Reference Letters should be sent to: Prof. Roberto Cianci DIME Via Opera Pia 15 Genova roberto.cianci@unige.it
Foreign Languages	English
Further Information	Prof. Roberto Cianci roberto.cianci@unige.it Prof. Daniele Simoni daniele.simoni@unige.it Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

Course: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING

Curriculum: ECONOMICS AND MANAGEMENT (CODE 9896)

Course Coordinator: Berselli Giovanni	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)	
Places: 2 – **Grants** 2 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001350006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	18.07.2023 10:00 am at the Department of Mechanical, Energy, Management and Transport Engineering (DIME), MEC section, via All'Opera Pia 15 / a, Genoa. The interview can take place on a motivated request also electronically (video conference via Skype) by contacting in time the resume contact person, Prof. Silvano Cincotti (silvano.cincotti@unige.it) and for information the coordinator of the doctorate Prof. Giovanni Berselli (giovanni.berselli@unige.it) specifying the candidate's name and surname, Skype address and curriculum vitae to which it refers (EM)
Further information on how to present qualifications/publications	Further information on Qualifications/publications must contain a detailed explanation and the planning of the development of a possible research project concerning one of the syllabuses of the field Economy and Management Economics, Finance, Management (EM.1, EM.2, EM3), in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described in the actual project submitted. The research project (min. 8,000 max. 16,000 strokes including spaces and punctuation) must comprise: - the research title; - field state of the art and relative bibliographic references; - objectives and expected results. In addition to the documentation that must be submitted by means of the online procedure, the following information, if present, will also be taken into consideration: - the title of the thesis dissertation of the Specialist/II level Degree/Master of Science/Master of Engineering together with a brief description (max. 4,000 strokes including spaces and punctuation); - a list of the exams done with the number of credits, marks and syllabuses (max 500 strokes including spaces and punctuation for each course); - any other qualifications/publications relevant to the application and scientific activity carried out; - a letter that states aptitude and motivations and the advancement expectations of the candidate submitting the application.
Exam Syllabus	The interview will focus on the discussion of the project, the qualifications presented by the candidate and on all the specific themes bound to the Economy and Management syllabus.
Research Themes	The curriculum in Economics and Management (EM) offers to candidates advanced training and preparation to conduct research at the intersection of economics, management and finance. The EM curriculum aims at developing professionals who are able to carry out, in these fields, advanced research in universities and international research institutions, manufacturing and service companies, credit and finance sectors, policy maker institutions, regulatory authorities and other public bodies. Research questions address fundamental and actual themes with emphasis on sustainability, resilience, responsibility, change and transformation in the society. The Ph.D. programme allows the candidate to develop a sound methodological background and multidisciplinary knowledge by developing qualitative, quantitative and computational approaches in economics, management and finance. Three main research Areas are addressed. **EM1 Economics** The Economics Area uses economic theory and models to study issues arising in the industrial, financial, innovation and business domains at both national and international level with the emphasis on quantitative methods for microeconomic, macroeconomic and policy effectiveness analysis. Research activities are conducted at multiple levels of analysis, including households, firms, sectors, banks, countries, policy makers and regulatory bodies. Specific attention is paid to the foundations of policy design and coordination, of economic decisions and of managerial processes. Theories and models are empirically based and are tested using multiple methodologies. Quantitative methods are used for the purposes of testing theories and of developing models for the

study of economic systems and specific attention is dedicated to agent-based computational models and computational experiments on artificial economies. The goal is to determine the regularities and the emerging properties in economic systems and to evaluate the impacts of policy and regulatory measures as the result of the behaviors and of the interactions of heterogeneous bounded-rational economic agents. The Economics Area develops skills that provide access to work opportunities in the credit and financial sectors, in governments and international organizations, and in academia.

EM2 Finance

The Finance Area pays a specific emphasis on preparing PhD students to become skilled and diligent researchers who bring a problem-solving perspective to the emerging challenges associated with finance. The research activities use computational econometrics, data mining and analytics, computational intelligence and machine learning, dynamic stochastic non-linear models of financial and economic data in a non-Gaussian environment and in the presence of extreme events. The objectives are to study and to model financial assets, to develop statistical algorithmic arbitrage strategies, to evaluate and mitigate systemic, systematic and operational risks in financial markets, to use quantitative methods for portfolio management and hedging solutions, to analyze technology's impact on asset pricing and behavioral finance. The Finance Area develops skills that provide access to work opportunities in financial industries, in the private and public sectors and in academic fields.

EM 3 Management

The Management Area focuses on the study of firms, financial institutions and Public Administrations from an innovation, knowledge management, strategic or organizational point of view. Particular emphasis is paid to the study of the complex interactions among strategy, management and technology and to the analysis of business processes both internal and external to firms, institutions and administrations. Attentions is oriented towards understanding the change management processes required when introducing strategic, organizational, social or technological innovations with the goal of developing both innovative theoretical models and practical tools and methodologies to be applied and tested in real cases. The research topics are studied across industries and regions, also by comparing best practices and models developed in different countries. Research activities in this area are based on qualitative and quantitative methodologies, including case studies, action research, surveys, modelling and simulation. The Management Area develops skills that provide access to work opportunities in both private industries and Public Administrations, in national and international organizations, and in academia.

Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Giovanni Berselli at the following address giovanni.berselli@unige.it and to the contact person for the curriculum EM, Prof. Silvano Cincotti, at silvano.cincotti@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English
Further Information	Coordinator of the PhD IMEG course: Prof. Giovanni Berselli DIME/MEC via all'Opera Pia 15/A 16145 Genova (+39) 0103352839 giovanni.berselli@unige.it Contact person for the EM curriculum: Prof. Silvano Cincotti DIME/DOGE via all'Opera Pia 15 16145 Genova (+39) 0103352080 silvano.cincotti@unige.it

Course: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING

Curriculum: TECHNICAL PHYSICS (CODE 9897)

Course Coordinator: Berselli Giovanni	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)	
Places: 3 – **Grants** 3 (*) [1]	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Transizioni Digitale e Ambientali), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001550006) (*) 1 grant funded by Department (DIME), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 [1]	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	18.07.2023 10:00 am at the Department of Mechanical, Energy, Management and Transport Engineering (DIME), MEC section, via All'Opera Pia 15 / a, Genoa. The interview can take place on a motivated request also electronically (video conference via Skype) by contacting in time the resume contact person, Prof. Corrado Schenone (corrado.schenone@unige.it) and for information the coordinator of the doctorate Prof. Giovanni Berselli (giovanni.berselli@unige.it) specifying the candidate's name and surname, Skype address and curriculum vitae to which it refers (FT)
Further information on how to present qualifications/publications	Further information on Qualifications/publications must contain a detailed explanation and the planning of the development of a possible research project concerning one of the syllabuses of the field Technical Physics (FT.1, FT.2, FT.3), in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described in the actual project submitted.
Exam Syllabus	The interview will focus on the discussion of the project, the qualifications presented by the candidate and on all the specific themes bound to the Technical Physics curriculum (FT).
Research Themes	The FT syllabus – Technical Physics – of the IMEG Doctoral Course resumes the historical course of the Doctoral Courses in Technical Physics (first year of activation 1992). It's objective is to train young researchers capable of developing theoretical experimental research in the thermodynamic, thermofluid dynamic and transmission of heat sectors; of dealing with research in the energy sector, by means of a suitable methodological approach to the thermodynamic issue; of analysing thermal, acoustic and lighting phenomena which concur in defining both the conditions of environmental well-being, of environmental impact and consequent control possibilities. The FT curriculum develops research within the following fields: FT.1 Physics of buildings and environmental control - Components, heating and air-conditioning plants - Physics of buildings and environmental control - Lighting techniques and applied acoustics. The issues are developped according to the traditional approach of Environmental Technical Physics. FT.2 Energetics, Applied Thermofluid dynamics and refrigeration - Thermodynamic analysis of energy systems - Energy sources, vectors and rational consumption of energy - Environmental impact of energy systems - refrigeration and heat pump psystems - Single and multiphase thermofluid dynamics. Thermophysical properties of materials. Techniques to increase the efficiency of the energy processes and thermofluid dynamic exchange mechanisms. The thematics are developped according to the traditional approach of Industrial Technical Physics. FT.3 Nuclear Plants The thematics which characterise Nuclear Plants, within the limits of the available sources, are added to the first two fields, for the innovative application of the functioning principles of nuclear fission plants for the production of electricity and hydrogen and the solution to advanced thermohydraulic problems of the core of thermal and fast fission reactors.
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be

	their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Giovanni Berselli at the following address giovanni.berselli@unige.it and to the contact person for the curriculum FT, , Prof. Corrado Schenone (corrado.schenone@unige.it). The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English
Further Information	Coordinator of the PhD IMEG course: Prof. Giovanni Berselli DIME/MEC Via all'Opera Pia 15/A 16145 Genova (+39) 0103352839 giovanni.berselli@unige.it Contact person for the FT curriculum: Prof. Corrado Schenone DIME/TEC Via all'Opera Pia 15/A 16145 Genova (+39) 0103352309 corrado.schenone@unige.it

[1] Information updated following communication of the course coordinator dated 15.06.2023

Course: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING

Curriculum: MECHANICS, MEASUREMENTS AND MATERIALS (CODE 9898)

Course Coordinator: Berselli Giovanni	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)	
Places: 6 (°) – **Grants**: 5 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 2 grant funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001350006) (*) 1 grant funded within D.M. 117 dated 2.3.2023 (co-funded by Leonardo SPA), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001740008) (°) 1 places reserved to employees of Re-Wing Srl	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	18.07.2023 10:00 am at the Department of Mechanical, Energy, Management and Transport Engineering (DIME), MEC section, via All'Opera Pia 15 / a, Genoa. The interview can take place on a motivated request also electronically (video conference via Skype) by contacting in time the resume contact person & coordinator of the doctorate Prof. Giovanni Berselli (giovanni.berselli@unige.it) specifying the candidate's name and surname, Skype address and curriculum vitae to which it refers (MMM)
Further information on how to present qualifications/publications	The qualifications/publications must contain a detailed explanation and the development plan of how to present a possible research project, quoting the Robotics and Mechatronics (RM) syllabus, and the field qualifications/pubblications it refers to, in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described and planned in the actual project.
Exam Syllabus	The interview will focus on the discussion of the project, the qualifications presented by the candidate and on all the specific themes bound to the Mechanics, Measurements And Materials curriculum (MMM).
Research Themes	The Mechanics, Measurements and Materials (MMM) syllabus focuses on research themestypical of the Macrosectors it refers to. In particular the research themes suggested concern the functional and constructive design sector, CAD, CAE, PLM, PDM, additive manufacturing (polymer-based metals and composites (machine and material methods in combination), the mechanic behaviour of materials, materials and implants for medical, industrial and marin applications, calculus modelling and applications of composite components also for orthotics and biomedical applications, environmental compatibility and recycling, mechanical and mechatronic systems, motor vehicles, railway vehicles, airplanes, mechanical automation, working, raising and transport systems, lubrification, vibrations and noise, sound quality, experimental methods, diagnostics and qualifying of machines and components, monitoring and maintenance, reliability, reverse logistics. Mechatronics Design and Control of Energy Efficient Leg (research theme grant funded within D.M. 117 cofunded by Leonardo Spa) Development robotic devices fo upper limb rehabilitation (research themes for places reserved to employees of Rewing Srl
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Giovanni Berselli, at giovanni.berselli@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English

Further Information	Coordinator of the PhD IMEG course:
	Prof. Giovanni Berselli
	DIME/MEC
	via all'Opera Pia 15/A
	16145 Genova
	(+39) 0103352839
	giovanni.berselli@unige.it
	Contact person for the MMM curriculum:
	Prof. Giovanni Berselli
	DIME/MEC
	via all'Opera Pia 15/A
	16145 Genova
	(+39) 0103352309
	Giovanni.berselli@unige.it

Course: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING

Curriculum: MECHANICS, MEASUREMENTS AND MATERIALS (CODE 9899)

Course Coordinator: Berselli Giovanni	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Hy-Lex Italy S.p.a., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243.	
Research project: Identification of defects in the production of geared motors through the analysis of vibrations and noise	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	18.07.2023 10:00 am at the Department of Mechanical, Energy, Management and Transport Engineering (DIME), MEC section, via All'Opera Pia 15 / a, Genoa. The interview can take place on a motivated request also electronically (video conference via Skype) by contacting in time the resume contact person & coordinator of the doctorate Prof. Giovanni Berselli (giovanni.berselli@unige.it) specifying the candidate's name and surname, Skype address and curriculum vitae to which it refers (MMM)
Further information on how to present qualifications/publications	The qualifications/publications must contain a detailed explanation and the development plan of how to present a possible research project, quoting the Robotics and Mechatronics (RM) syllabus, and the field qualifications/pubblications it refers to, in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described and planned in the actual project.
Exam Syllabus	The interview will focus on the discussion of the project, the qualifications presented by the candidate and on all the specific themes bound to the Mechanics, Measurements And Materials curriculum (MMM).
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): 1. Production fault identification by means of noise and vibration.
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Giovanni Berselli, at giovanni.berselli@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English
Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 6

Course: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING

Curriculum: ROBOTICS AND MECHATRONICS (CODE 9900)

Course Coordinator: Berselli Giovanni	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant cofunded by MUR/Department (DIME), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	18.07.2023- 10:00 am at the Department of Mechanical, Energy, Management and Transport Engineering (DIME), MEC section, via All'Opera Pia 15 / a, Genoa. The interview can take place on a motivated request also electronically (video conference via Skype) by contacting in time the resume contact person, Prof. Matteo Zoppi (matteo.zoppi@unige.it) and for information the coordinator of the doctorate Prof. Giovanni Berselli (giovanni.berselli@unige.it) specifying the candidate's name and surname, Skype address and curriculum vitae to which it refers (RM)
Further information on how to present qualifications/publications	The qualifications/publications must contain a detailed explanation and the development plan of how to present a possible research project, quoting the Robotics and Mechatronics (RM) syllabus, and the field qualifications/pubblications it refers to, in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described and planned in the actual project.
Exam Syllabus	The interview will focus on the discussion of the project, the qualifications presented by the candidate and on all the specific themes bound to the Robotics and Mechatronics curriculum (RM).
Research Themes	The Robotics and Mechatronics (RM) syllabus focuses on research themes typical of the Macrosectors it refers to. In particular the research themes suggested concern the devel opment of robot and manipulation, switch systems, home automation (domotics), remote manipulation, modular robots and robots for safety, intelligent mini-vehicles, assembly systems, fluid automation; models and simulation of systems for robotics and mechatronics, man-machine interaction, collaborative robotics, cooperative robotics, robot programming, integration of robotic systems, mechatronics for the automatic machine sectors and for the mechanical and marine mechanical industry.
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Luca A. Tagliafico at the following address tgl@ditec.unige.it and to the contact person for the curriculum RM, Prof. Matteo Zoppi, at matteo.zoppi@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English
Further Information	Coordinator of the PhD IMEG course: Prof. Giovanni Berselli DIME/MEC via all'Opera Pia 15/A 16145 Genova (+39) 0103352839 giovanni.berselli@unige.it Contact person for the RM curriculum: Prof. Matteo Zoppi DIME/MEC via all'Opera Pia 15/A 16145 Genova (+39) 0103352964 matteo.zoppi@unige.it

Course: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING

Curriculum: TECHNOLOGIES AND PLANTS (CODE 9901)

Course Coordinator: Berselli Giovanni	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)	
Places: 2 – **Grants**: 2 (*)	
(*) 1 grant funded within D.M. 117 dated 2.3.2023 (cofounded by Ansaldo Energia), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001740008). *TI.2-Theme1: Design and implementation of a digital data acquisition system for automated and semi-automated production in manufacturing environments. Data Analytics and Optimization (Machine Learning and Predictive Analysis) applied on data acquired from high volume production lines.* [1] (*) 1 grant funded within D.M. 117 dated 2.3.2023 (cofounded by Ansaldo GreenTech), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001740008). *TI.2- Theme2: Design and implementation of an integrated architecture for the management of production data, quality and traceability of materials according to industry 4.0* [1]	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	The qualifications/publications must contain a detailed explanation and the development plan of how to present a possible research project, quoting the Technologies and Plants (TP) syllabus, and the field (TP.1 or TP.2) it refers to, in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described in the actual project.
Research Themes	The Technologies and Plants (TP) syllabus focuses on research themes typical of the macro-sectors it refers to. It is organized into two specializations: TP.1 Processing Technologies and Systems Specialization: -Analysis of the variables that influence the mecchanical and micro-structural characteristics of welded joints implemented with traditional and innovative techniques. -Study of the potential of robotic welding plants. -Singling out of solutions that allow the obtaining of glued joints with adequate characteristics (study of the surface preparation methods, analysis of the behaviour of adhesives in different environmental conditions). -Study of the problems concerning the fine-tuning and monitoring of the processing of metallic and non-metallic materials. -Study and singling out of construction techniques of moulds for polymeric materials. -Surface analysis and fine-tuning of techniques to obtain the desired degree of finishing and chemical reactivity. TP.2 Industrial Plants Specialization: -Design and management of production processes. -Technical and economic assessments of Engineering and industrialization of new products and production cycles. -Industrial sustainability, quality, safety, remanufacturing, demanufacturing. -Manufacturing strategies: Lean Manufacturing, World Class Manufacturing, Agile Manufacturing. -Industrial logistics. -Life Cycle Assessment of plants and processes. -Key enabling technology 4.0 for production and industrial plants: simulation, IoT, augmented and virtual realities, manufacturing analytics. The activities that will be carried out within the doctoral course aim at training young researchers to be capable of developing theoretical and experimental research starting from the analysis of the state of the art and autonomously developing innovative solutions. Research themes for grants • Design and implementation of a digital data acquisition system for automated and semi-automated production in manufacturing environments. Data Analytics and Optimization (Machine Learning and Predictive Analysis) applied on data acquired from high volume production lines • Design and implementation of an integrated architecture for the management of production data, quality and traceability of materials according to industry 4.0

	paragms.
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Giovanni Berselli at the following address giovanni.berselli@unige.it and to the contact person for the curriculum TP, ~~Prof. Carla Gambaro~~ Prof. Enrico Lertora, at enrico.lertora@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English
Further Information	Coordinator of the PhD IMEG course: Prof. Giovanni Berselli DIME/MEC via all'Opera Pia 15/A 16145 Genova (+39) 0103352839 giovanni.berselli@unige.it Contact person for the Technology and Plants - TP curriculum: Prof. Enrico Lertora DIME/ITIMAT via all'Opera Pia 15 16145 Genova (+39) 0103352964 enrico.lertora@unige.it

[1] Information updated following the request of the course coordinator dated 15.06.2023

Course: JOINT DOCTORATE IN INTERACTIVE AND COGNITIVE ENVIRONMENTS (JD ICE)
Doctoral Course in agreement with the Queen Mary University of London and the Universidad Carlos III de Madrid

Curriculum: INTERACTIVE AND COGNITIVE ENVIRONMENTS (CODE 9902)

Course Coordinator: Regazzoni Carlo	
Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture (Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
At the end of the course a joint qualification will be awarded with the Queen Mary University of London.	
Comparative assesment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	19/07/2023 at 9.30 at the Department of Electrical, Electronic, Telecommunications Engineering and Naval Architecture (DITEN), University of Gena, Via Opera Pia 11A - 16145 Genoa, Italy or online The interviews may also take place electronically via Skype connection with video for identity verification, upon request to the Coordinator of the Research Doctorate, Prof. Carlo Regazzoni, by email at carlo.regazzoni@unige.it and at lucio.marcenaro@unige.it addresses, inserting your skype ID in the request. During the interview, the candidate must demonstrate his knowledge of the English language. In order to take the interview, the candidate must show the same identity document attached to the application for admission, he may also show another valid identity document where it is clearly identifiable.
Further information on how to present qualifications/publications	The application form must contain: a) curriculum vitae et studiorum correctly dated and signed. The CV must include all relevant information regarding the research doctorate topics for which the candidate is applying. This information should highlight: the title of the master's degree thesis and a brief description of the same, a list of exams taken and relative marks of previous research and / or work experience, any other qualifications obtained, certifications, publications, patents, etc.; b) degree certificate (three-year and master's). Candidates who have not obtained their degree in Italy or in the United Kingdom will have to present the certificate of attestation of the title translated into English and a declaration of value. c) a presentation of the institution that issued the title, containing a description of the selection methods, the international and national ranking, types of qualifications issued, teaching languages, website (etc.) (max. 15 lines); d) if the candidate is not a native English speaker, he/she must present a certificate of attestation of knowledge of the English language (IELTS with a minimum mark equal to: 6.5) obtained in the last three years from the submission of the application) e) a signed motivation letter containing the research project chosen and the reasons for the choice (max 10 pages) It is important to highlight in the presentation of the research project since the following aspects will be used as evaluation parameters: Relevance to the research themes that appear in the call, Originality, Methods of execution, Feasibility, and Clarity of exposure. A possible scheme for the presentation of the research project, which must not exceed 10 pages, is the following: - Motivations and logical foundation - State of art - Targets - Methodology used - Preliminary workplan - Expected results - Bibliography

Exam Syllabus	The interview includes an illustration of the research activities of interest of the candidate, also in consideration of the previous research activities included in the candidate's curriculum vitae et studiorum. During the interview, the examining commission will evaluate the candidate's competences about specific research topics. During the interview, the candidate must demonstrate his knowledge of the English language. To take the interview, the candidate must show the same identity document attached to the application for admission, he may also show another valid identity document where it is clearly identifiable. The interviews may also take place electronically via Skype connection with video for identity verification, upon request to the Coordinator of the Research Doctorate, Prof. Carlo Regazzoni, by e-mail at carlo.regazzoni@unige.it and at lucio.marcenaro@unige.it addresses, inserting your skype ID in the request.
Research Themes	1. Edge Computing solutions for Non-Terrestrial networks 2. Methods for security assessment of systems with wireless communication interfaces 3. Edge/cloud big data management and machine learning 4. Artificial Intelligence explainability methods for perception and decision making 5. Active inference for wireless communications in UAV and mobile agents 6. Power Management Integrated Circuit for energy harvesting 7. Battery-indifferent IC for constrained sensor nodes
Information on references	Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. It must be the referents' responsibility to send the reference letters, within the deadline of the call, to the Coordinator of the PhD course at the following addresses: carlo.regazzoni@unige.it; lucio.marcenaro@unige.it In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons they have chosen. The candidate's aptitude for scientific research must clearly show from the content of the reference letters
Foreign Languages	English
Further Information	The Doctoral course in Interactive and Cognitive Environment is a JOINT Doctorate and is organized and coordinated - as stipulated in the agreement "COLLABORATION AGREEMENT BETWEEN QUEEN MARY UNIVERSITY OF LONDON AND UNIVERSITY OF GENOA STUDIES". The agreement provides for a joint model of coordination of the doctorate, supervision and mobility of candidates. In accordance with the above, each supervising candidate will be assigned two supervisors, one for each partner university. Candidates who participate in the announcement announced by UNIGE and will be winners, and who will therefore have UNIGE as their Primary Institution, will be assigned a UNIGE professor as Primary Supervisor and a QMUL professor as Secondary Supervisor. Upon completion of the doctorate, a JOINT degree signed by both Partner Universities will be issued to those who successfully pass the final defense. More information on: http://phd-jdice.diten.unige.it/

Course: JOINT DOCTORATE IN INTERACTIVE AND COGNITIVE ENVIRONMENTS (JD ICE)
Doctoral Course in agreement with the Queen Mary University of London and the Universidad Carlos III de Madrid

Curriculum: SELF-AWARE AUTONOMOUS SYSTEMS (CODE 9903)

Course Coordinator: Regazzoni Carlo	
Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture (Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: 2 – **Grants**: 2 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001360006)	
As part of the agreement with the Universidad Carlos III de Madrid (UC3M) signed on 8.6.2018, a cotutelle can be activated for the issue of the joint degree between the two universities. The application details will be published at http://phd-jdice.diten.unige.it/.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	19/07/2023 at 9.30 at the Department of Electrical, Electronic, Telecommunications Engineering and Naval Architecture (DITEN), University of Gena, Via Opera Pia 11A - 16145 Genoa, Italy, or online. The interviews may also take place electronically via Skype connection with video for identity verification, upon request to the Coordinator of the Research Doctorate, Prof. Carlo Regazzoni, by email at carlo.regazzoni@unige.it and at lucio.marcenaro@unige.it address, inserting your skype ID in the request. During the interview, the candidate must demonstrate his knowledge of the English language. In order to take the interview, the candidate must show the same identity document attached to the application for admission, he may also show another valid identity document where it is clearly identifiable.
Further information on how to present qualifications/publications	The application form must contain: a) curriculum vitae et studiorum correctly dated and signed. The CV must include all relevant information regarding the research doctorate topics for which the candidate is applying. This information should highlight: the title of the master's degree thesis and a brief description of the same, a list of exams taken and relative marks of previous research and / or work experience, any other qualifications obtained, certifications, publications, patents, etc.; b) degree certificate (three-year and master's). Candidates who have not obtained their degree in Italy or in the United Kingdom will have to present the certificate of attestation of the title translated into English and a declaration of value. c) a presentation of the institution that issued the title, containing a description of the selection methods, the international and national ranking, types of qualifications issued, teaching languages, website (etc.) (max. 15 lines); d) if the candidate is not a native English speaker, he/she must present a certificate of attestation of knowledge of the English language (IELTS with a minimum mark equal to: 6.5) obtained in the last three years from the submission of the application) e) a signed motivation letter containing the research project chosen and the reasons for the choice (max 10 pages) It is important to highlight in the presentation of the research project since the following aspects will be used as evaluation parameters: Relevance to the research themes that appear in the call, Originality, Methods of execution, Feasibility, and Clarity of exposure. A possible scheme for the presentation of the research project, which must not exceed 10 pages, is the following: - Motivations and logical foundation - State of art - Targets - Methodology used - Preliminary workplan - Expected results - Bibliography
Exam Syllabus	The interview includes an illustration of the research activities of interest of the candidate, also in consideration of the previous research activities included in the candidate's curriculum vitae et studiorum. During the interview, the examining committee will evaluate the candidate's competencies in specific research topics. During the interview, the candidate must demonstrate his knowledge of the English language.

	To take the interview, the candidate must show the same identity document attached to the application for admission, he may also show another valid identity document where it is clearly identifiable. The interviews may also take place electronically via Skype connection with video for identity verification, upon request to the Coordinator of the Research Doctorate, Prof. Carlo Regazzoni, by e-mail at carlo.regazzoni@unige.it and at lucio.marcenaro@unige.it address, inserting your skype ID in the request.
Research Themes	1. Edge Computing solutions for Non-Terrestrial networks 2. Methods for security assessment of systems with wireless communication interfaces 3. Edge/cloud big data management and machine learning 4. Artificial Intelligence explainability methods for perception and decision making 5. Active inference for wireless communications in UAV and mobile agents 6. Power Management Integrated Circuit for energy harvesting 7. Battery-indifferent IC for constrained sensor nodes 8. Data driven dynamic anomaly detection from aerial and terrestrial agents using multimodal sensing (research theme for D.M. 118 - 2.3.2023)
Information on references	Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. It must be the referents' responsibility to send the reference letters, within the deadline of the call, to the Coordinator of the PhD course at the following addresses: carlo.regazzoni@unige.it; lucio.marcenaro@unige.it In the application for admission, candidates must indicate the name, qualification, and place of employment of the contact persons they have chosen. The candidate's aptitude for scientific research must be clearly shown from the content of the reference letters.
Foreign Languages	English
Further Information	The PhD course in Self-aware autonomous systems belongs is a JOINT Doctorate and is organized and coordinated - as stipulated in the agreement "COLLABORATION AGREEMENT BETWEEN UNIVERSIDAD CARLOS III DE MADRID AND UNIVERSITY OF GENOA". The agreement provides for a joint model of coordination of the doctorate, supervision, and mobility of candidates. In accordance with the above, each supervising candidate will be assigned two supervisors, one for each partner university. Candidates who participate in the announcement announced by UNIGE and will be winners, and who therefore will have UNIGE as their Primary Institution, will be assigned a UNIGE professor as Primary Supervisor and a UC3M professor as Secondary Supervisor. Upon completion of the doctorate, a JOINT degree signed by both Partner Universities will be issued to those who successfully pass the final defense. More information on: http://phd-jdice.diten.unige.it/

Course: MODERN AND CLASSICAL LITERATURES AND CULTURES

Curriculum: ITALIAN STUDIES AND TEXTUAL SCIENCES (CODE 9904)

Course Coordinator: Bonafin Massimo	
Department of Italian and Romance Languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di Italianistica, Romanistica, Antichistica, Arti e Spettacolo – DIRAAS)	
Places: 4 – **Grants**: 4 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001370006) (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Patrimonio culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001370006)	
Comparative assessment procedure	Qualifications/publications and interview
Interview	26/07/2023 – h 9.00. Detailed instructions will be sent to all interviewees.
Further information on how to present qualifications/publications	Together with all other required documentation, candidates are expected to upload onto the application website one file including the title, contents and bibliography of their MA dissertation, as well as a synopsis or extract (introduction/conclusion, or one significant chapter) of the dissertation (max. 8.000 words). Likewise, they will have to upload their publications, and their research project, inclusive of state of the art, bibliography, and expected results (max. 1.700 words)
Topics of the interview	Discussion of the research project.
Research Themes	- Comparative Literature and Literary Theory - Reconstructive Philology And Authorial Philology Applied To Italian Literary Texts - Italian Literature and Dramatic Literature: Texts, Authors And Critical Problems From The Thirteenth To The Twentieth Century - History of the Italian Language: Stylistics, Lexicography, Literary Diction, Language Of Use, Languages For Special Purposes. - History Of Theatre From The Early Modern Age To The Present: Archival Sources, Production Frameworks And Staging Practices - History Of The Cinema And Film Analysis Methodologies: Archival Sources, Media Cultures, Productive Contexts - Musical Theatre, Sacred Music And The Relationship Between Music And Literature From The Eighteenth Century To The Present - Themes, Motifs and Figures of Romance Medieval Fiction **For the grant of field 1 (D.M. 118/2023, art. 8):** The Cataloguing and the Development of the Angelico Aprosio fund at the Biblioteca Universitaria in Genoa (d.m. 118/23, art. 8). The doctoral project concerns Angelico Aprosio's epistolary (17th-century), which has only been partially explored and published; it includes a study period at the LECEMO research centre in Paris Sorbonne III and a at the Bibliothèque nationale de France, an agreement with Biblioteca Universitaria of Genoa, where the collection is kept, and a collaboration with the ARCHILET project. **For the grant of field 2 (D.M. 118/2023, art. 10):** Literature and Tourism. From theory to a case study. The doctoral project concerns a theoretical reflection on and a bibliographic survey of the idea of literary place, together with the planning of a tourist-literary itinerary in the Genoese reality. A period of study at the Complutense University of Madrid and an agreement with the Berio Library of Genoa will be part of the project.

Information on references	Min. 1-Max. 3 reference letters by university lecturers or other experts are required. In the online application form applicants will have to state their referees' names, qualifications, and university affiliations. Referees are expected to use the reference template to be downloaded from the Ph.D. programme website https://lccm.dottorato.unige.it/ammissione and send their reference letters to veronica.pesce@unige.it, by the deadline of the call.
Foreign Languages	During the interview candidates will be asked to translate a passage of critical literature (either English or French) concerning the above-listed research themes.
Further Information	Only a limited number of applicants will be admitted to the interview. Admission will be based on CV, MA dissertation, published works (if any) and research project. The list of those admitted will be posted to the Admission section of our site: **https://lccm.dottorato.unige.it/ammissione** by 20/07/2023 at 12.00.

Course: MODERN AND CLASSICAL LITERATURES AND CULTURES

Curriculum: MODERN LITERATURES (CODE 9905)

Course Coordinator: Bonafin Massimo	
Department of Italian and Romance Languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di Italianistica, Romanistica, Antichistica, Arti e Spettacolo – DIRAAS)	
Places: 2– **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	Qualifications/publications and interview
Interview	24.07.2023 – h 09.00 either in presence or remotely via MS Teams in case of justified needs to be communicated to the committee by 21.07.2023 at 19.00; more specific instructions will be sent to all interviewees.
Further information on how to present qualifications/publications	Together with all other required documentation, candidates are expected to upload onto the application website one file including the title, contents and bibliography of their MA dissertation, as well as a synopsis or extract (introduction/conclusion, or one significant chapter) of the dissertation (max. 8.000 words). Likewise, they will have to upload their publications, and their research project, inclusive of state of the art, bibliography, and expected results (max. 1.700 words).
Topics of the interview	Interview: discussion of the research project and of the CV.
Research Themes	Our Ph. D. programme can offer competent supervision to research projects on a variety of authors, themes, genres and works of French, English, Nordic, Polish, Portuguese and Brazilian, Russian, Spanish and Latin American, German literatures. It especially welcomes projects relating to the research interests of its academic staff and their colleagues of the Department of Modern Languages and Cultures. For a detailed list of their fields of research see **https://lccm.dottorato.unige.it/ammissione**
Information on references	Min. 1-Max. 3 reference letters by university lecturers or other experts are required. In the online application form applicants will have to state their referees' names, qualifications, and university affiliations. Referees are expected to use the reference template to be downloaded from the Ph.D. programme website **https://lccm.dottorato.unige.it/ammissione** and send their reference letters to luisa.villa@unige.it by the deadline of the call.
Foreign Languages	The candidate's knowledge of the foreign language/languages directly involved in his/her research project will be tested during the interview. An advanced level in at least one foreign language and a working knowledge of a second foreign language (chosen among French, English, Polish, Portuguese, Russian, Spanish, Swedish, Norwegian, Danish, German) are required. Applicants whose mother tongue is not Italian will also have to demonstrate their knowledge of the Italian language, which is necessary for a fruitful participation in the didactic activities.
Further Information	Only a limited number of applicants will be admitted to the interview. Admission will be based on CV, MA dissertation, published works (if any) and research project. The list of those admitted will be posted to the admission section of our site: **https://lccm.dottorato.unige.it/ammissione** by 17.07.2023 at 19.00.

Course: MODERN AND CLASSICAL LITERATURES AND CULTURES

Curriculum: ANCIENT STUDIES: ARCHAEOLOGY, PHILOLOGY, HISTORY (CODE 9906)

Course Coordinator: Bonafin Massimo	
Department of Italian and Romance Languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di Italianistica, Romanistica, Antichistica, Arti e Spettacolo – DIRAAS)	
Places: 4 (°) – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (°)1 position reserved for SINTEGRA S.R.L.S. employees	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM
Written Test	20.07.2023 h. 10.00 a.m. Venue: Room 6, via Balbi 2, Genova
Interview	25.07.2023 h. 09.00 a.m. The interview will be held on TEAMS remote platform. Instructions will be sent to all interviewees.
Further information on how to present qualifications/publications	Together with all other required documentation, candidates are expected to upload onto the application website one file including the title, contents and bibliography of their MA dissertation, as well as a synopsis or extract (introduction/conclusion, or one significant chapter) of the dissertation (max. 8.000 words). Likewise, they will have to upload their publications, and their research project, inclusive of state of the art, bibliography, and expected results (max. 1.700 words).
Exam Syllabus	The written test will be conducted on randomly selected tasks and will consist of: 1) a translation from a Latin or Greek text which may include a philological and exegetical commentary; 2) an essay dealing with topics of Greek and Roman history, grounded on ancient sources and modern bibliography; 3) an essay dealing with archaeological topics and related methodological issues. The interview will include a discussion of the paper produced during the written test and the research proposal; it will also examine the candidates' language proficiency (see Foreign Languages).
Research Themes	Our Ph. D. programme can offer competent supervision to research projects on a variety of authors, texts, genres, and themes pertaining to the following scientific areas: Greek, Latin, and Byzantine philology and literature, Greek and Roman history, papyrology, epigraphy, Aegean archaeology, methods of archaeological research. It especially welcomes projects relating to the research interests of its academic staff and their colleagues of the Department DAFIST and DIRAAS. For a detailed list of their fields of research see **https://lccm.dottorato.unige.it/ammissione** - Development and experimentation of BIM platforms for the storage and analysis of archaeological data. - Settlement dynamics in the middle Tanagro Valley from Prehistory to the Middle Ages: development of an integrated GIS platform for cultural heritage management. (projects linked to 2 doctoral positions within the industrial Ph.D. partnership with SINTEGRA s.r.l.s.).
Information on references	Min. 1-Max. 3 reference letters by University lecturers or other experts are required. In the online application form applicants will have to state their referees' names, qualifications, and University affiliations. Referees are expected to use the reference template to be downloaded from the Ph.D. programme website **https://lccm.dottorato.unige.it/ammissione** and send their reference letters to Prof.ssa Francesca Gazzano: referente.antichistica1@gmail.com by the deadline of the call.
Foreign Languages	A good working knowledge of a modern foreign language (chosen among English, French, Spanish, German) is required of all candidates, who will be asked to translate a passage from specialist publications during the interview. An adequate knowledge of the Italian language is mandatory for all applicants.
Further Information	Only a limited number of applicants will be admitted to the written exam. Admission will be based on CV, MA dissertation, published works (if any) and research project. The list of those admitted will be posted to the Admission section of our site: **https://lccm.dottorato.unige.it/ammissione** by 18.07.2023 at 18.00.

Course: MATHEMATICS AND APPLICATIONS

Curriculum: MATHEMATICS AND APPLICATIONS (CODE 9907)

Course Coordinator: Vigni Stefano	
Department of Mathematics (Dipartimento di Matematica – DIMA)	
Places: 7 **Grants**: 7 (*)	
(*) 4 grants funded by Università degli Studi di Genova; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant cofunded by MUR/DIMA; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 2 grants funded by DIMA via the Dipartimenti di Eccellenza 2023-2027 programme; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20.7.2023 - 9:00 am (Italian time) Interviews may continue on 21.7.2023. All interviews will be held either in person or via SKYPE (or an equivalent platform). In due course, candidates will be contacted by the evaluation committee.
Further information on how to present qualifications/publications	Besides the documentation listed in art. 3 of the public notice, candidates must present: - if available, their 5-year degree thesis (to be uploaded online). Furthermore: - their three-year degree and five-year degree marks should be indicated in their curriculum; - a research project (2 pages max.) describing the research theme they intend to work on during the Doctoral Course.
Exam syllabus	The comparative assessment procedure consists in the assessment of qualifications/publications and in interview on the research project presented by the candidate.
Research themes	- Harmonic and functional analysis - Mathematical logic and category theory - Commutative algebra - Complex projective geometry - Analytic number theory - Arithmetic geometry and algebraic number theory - Mathematical formulations of quantum mechanics and field theory - Probability and mathematical statistics - Numerical analysis, computational methods and applications - Mathematics education
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Stefano Vigni Dipartimento di Matematica, Università di Genova Via Dodecaneso 35 16146 Genova or, alternatively, to the e-mail address: vigni@dima.unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign languages	English
Further information	Prof. Stefano Vigni Dipartimento di Matematica, Università di Genova via Dodecaneso 35 16146 Genova GE E-mail: stefano.vigni@unige.it

Course: MATHEMATICS AND APPLICATIONS

Curriculum: MATHEMATICAL METHODS FOR DATA ANALYSIS (CODE 9908)

Course Coordinator: Vigni Stefano	
Department of Mathematics (Dipartimento di Matematica – DIMA)	
Places: 9 **Grants**: 9 (*) [1] [2]	
(*) 2 grants funded by Istituto Italiano di Tecnologia (IIT); the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 2 grants funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001380006). (*) 1 grant funded within D.M. 117 dated 2.3.2023 (cofunded by HoB S.r.l.), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001730004). (*) 1 grant funded within D.M. 117 dated 2.3.2023 (cofunded by the Astronomical Observatory of Turin (OATo)) under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001730004). (*) 1 grant funded by Department (DIMA) within the European project 3D-BrAIn; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded by Department (DIMA) within the European ERC project "Efficient algorithms for sustainable machine learning"; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 [1] (*) 1 grant funded by Department (DIMA) within the European ERC Starting Grant 2021 "Sample complexity for inverse problems in PDE"; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 [2]	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview:	20.7.2023 - 9:00 am (Italian time) Interviews may continue on 21.7.2023. All interviews will be held either in person or via SKYPE (or an equivalent platform). In due course, candidates will be contacted by the evaluation committee.
Further information on how to present qualifications/publications	Besides the documentation listed in art. 3 of the public notice, candidates must present: - if available, their 5-year degree thesis (to be uploaded online). Furthermore:- their three-year degree and five-year degree marks should be indicated in their curriculum; - a research project (2 pages max.) which describes the research theme they intend to work on during the Doctoral Course.
Exam syllabus	The comparative assessment procedure consists in the assessment of qualifications/publications and in interview on the research project presented by the candidate.
Research themes	**Research theme n. 1 (IIT) -** Machine learning and dynamical systems. *Abstract -* Dynamical systems are mathematical models used to describe the evolution of state variables over time. These models, often represented by nonlinear differential equations (ordinary or partial), and possibly stochastic, have wide-ranging applications in science and engineering. This project aims to investigate data-driven methods for analyzing dynamical systems. The methods, which can be based on reproducing kernel Hilbert space or deep neural networks should be efficient and allow for principled analysis. The project can explore both theoretical and applied aspects, drawing upon various mathematical techniques such as mathematical statistics, stochastic processes, empirical processes, numerical analysis, optimization, and optimal transport. Additionally, potential applications in computational chemistry, particularly in the field of molecular dynamics, will also be explored. **Research theme n. 2 (IIT)** - Physics informed machine learning. *Abstract -* The goal of this project is to enhance data efficiency in machine learning algorithms, by leveraging different forms of supervision and geometry in the data, and their time-varying nature. Tools from probability and statistics will be employed to design and analyze the learning algorithms. One guiding principle will be the interpretability of the methods. Not only this will make the results more transparent but also allow new physically informed data efficient machine learning algorithms to be developed. Potential applications of the methods to areas of science and engineering may be explored. **Research theme n. 3 (D.M. 117 dated 2.3.2023 - HoB S.r.l.) -** Computational methods for data analysis in industrial frameworks. *Abstract -* The project will develop algorithms for data modelling in industrial framework, with predictive and risk analysis objectives. The computational methods will involve artificial intelligence, statistical, and numerical optimization techniques, while applications will be concerned with several industrial problems. This industrial research activity will be realized in

collaboration with HoB srl, a spin-off at the Università di Genova that works at the production of AI solutions for data and images interpretation.

Research theme n. 4 (D.M. 117 dated 2.3.2023 - OATo) - The era of Artificial Intelligence in predicting geo-effectiveness of solar events.

Abstract - The project will develop artificial intelligence algorithms, with particular attention to deep-learning techniques, for the prediction of the geomagnetic effects on our planet due to solar events such as flares and ejections of coronal mass. The research activity will be realized in collaboration with the Astronomical Observatory of Turin (OATo) of the National Institute of Astrophysics (INAF).

Research theme n. 5 (D.M. 118 dated 2.3.2023 - Azione Dottorati di Ricerca PNRR) - Artificial Intelligence methods for the forecasting of extreme weather and space weather events.

Abstract - The project aims at formulating and implementing artificial intelligence pipelines for the analysis of data and images recorded by space telescopes and in-situ instruments, with the objective to predict extreme weather and space weather events. We will also utilize AI techniques for the identification of precursors, and we will introduce physics-driven information into the design of the machine/deep learning algorithms. This research activity will be performed within the AIxtreme project, a recently funded research grant of the Fondazione Compagnia di San Paolo.

Research theme n. 6 (D.M. 118 dated 2.3.2023 - Azione Dottorati di Ricerca PNRR) - Bayesian methods for cerebral activity and connectivity estimation from electrophysiological data.

Abstract - Electroencephalography (EEG) and magnetoencephalography (MEG) are non-invasive neuromaging techniques with one-millisecond temporal resolution. From MEG/EEG data it is possible to localize brain activity and characterize the connectivity between spatially distinct regions, by computing correlation measures between the estimated time series. MEG and EEG are contributing to understanding the working of the brain and to shed light on important pathologies such as Alzheimer and epilepsy. However, available tools for MEG/EEG data analysis are still rudimental from a mathematical perspective, with two important consequences: (1) practical use of MEG/EEG is still limited to expert users; (2) the results of the analyses still have a certain degree of subjectivity. The aim of this project is to develop novel Bayesian models that allow to make MEG/EEG data analysis more automated, making the analysis easier and leading to a wider use of the techniques while, at the same time, contributing to making the results less subjective.

Research theme n. 7 (3D-BrAIn) - Development of computational methods for the identification of features of cerebral organoids.

Abstract - The long-term vision of the 3D-BrAIn consortium is to develop an innovative bio-digital twin model of the human brain that is personalized, precise and predictive. The project will bring together three breakthrough technologies: 1) a novel, highly reproducible human brain modelling technology using 3D cortical organoid cultures, 2) a unique 3D multi-electrode array technology for non-invasive high-resolution electrophysiological recordings and 3) novel approaches to analyse and interpret the large quantities of functional data usin g tailored automated machine learning (ML)-based algorithms. This last point is the focus of this PhD position.

Research theme n. 8 (ERC project) - Efficient Machine Learning for operators and dynamical systems.

Abstract - While traditional machine learning primarily focuses on estimating scalar-valued functions from data, there is a growing interest in developing methods to learn more complex quantities, such as operators between Hilbert and Banach spaces. These operators play a central role when data are generated according to governing equations, particularly in the context of dynamical systems. In this project, our goal is to develop techniques that are efficient in terms of both data and computations, while also being supported by rigorous theoretical guarantees. [1]

Research theme n. 9 (ERC Starting Grant 2021 project) - Applied harmonic analysis for inverse problems.

Abstract - The aim of this project is to study inverse problems, in particular those modelled by integral or differential operators, and to obtain estimates on the number of necessary measurements in relation to the complexity of the quantity to be reconstructed. We will use techniques of applied harmonic analysis, in particular compressed sensing and machine learning. [2]

Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Stefano Vigni Dipartimento di Matematica, Università di Genova Via Dodecaneso 35 16146 Genova

	or, alternatively, to the e-mail address: vigni@dima.unige.it
	The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign languages	English
Further information	Prof. Stefano Vigni Dipartimento di Matematica, Università di Genova via Dodecaneso 35 16146 Genova GE E-mail: stefano.vigni@unige.it

[1] 1 position with grant added following communication of the course coordinator dated 21.06.2023
[2] 1 position with grant added following communication of the course coordinator dated 30.06.2023

Course: MATHEMATICS AND APPLICATIONS

Curriculum: MATHEMATICAL METHODS FOR DATA ANALYSIS (CODE 9909)

Course Coordinator: Vigni Stefano	
Department of Mathematics (Dipartimento di Matematica – DIMA)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of BEES S.r.l., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Bayesian approaches and Machine Learning for industrial applications	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	20.7.2023 - 9:00 am (Italian time) Interviews may continue on 21.7.2023. All interviews will be held either in person or via SKYPE (or an equivalent platform). In due course, candidates will be contacted by the evaluation committee.
Further information on how to present qualifications/publications	Besides the documentation listed in art. 3 of the public notice, candidates must present: - if available, their 5-year degree thesis (to be uploaded online). Furthermore: - their three-year degree and five-year degree marks should be indicated in their curriculum; - a research project (2 pages max.) which describes the research theme they intend to work on during the Doctoral Course.
Exam syllabus	The comparative assessment procedure consists in the assessment of qualifications/publications and in interview on the research project presented by the candidate.
Research themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): **Research theme (grant cofunded by BEES S.r.l.) -** Bayesian approaches and Machine Learning for industrial applications. *Abstract* - In the last years italian industries have been collecting an ever increasing amount of data, regarding their production processes. This amount of data represents a resource and a challenge at the same time, as artificial intelligence algorithms are then needed in order to exploit the information they contain. In this project, we will be using Bayesian methods and Machine Learning algorithms for inference/prediction problems, with industrial applications.
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Stefano Vigni Dipartimento di Matematica, Università di Genova Via Dodecaneso 35 16146 Genova or, alternatively, to the e-mail address: vigni@dima.unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign languages	English
Further information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

Course: EXPERIMENTAL MEDICINE

Curriculum: BIOCHEMISTRY (CODE 9910)

Course Coordinator: Fedele Ernesto	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 4 (°) – **Grants**: 3 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual amount of the scholarship, gross of social security contributions to be paid by the recipient, is €16,500. (*) 1 grant funded within D.M. 118, 2.3.2023 (Ricerca PNRR), under condition of the approval of Ministerial funding; the annual amount of the grant, gross of social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001390006). (°) 1 place reserved within the framework of the European project NADIS - Title: NAD+ International Scientist-Training Programma HORIZON-MSCA-DN-2021 without scholarship covered with a research grant (selection program D.R. 5698 of 12.23.2022)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	19 July 2023 – h 10:00 CEST In presence at the Department of Experimental Medicine (DIMES), Biochemistry Section, Viale Benedetto XV, 1 - floor 1, 16132 Genoa or via Skype if requested by the candidate
Exam Syllabus	The interview will cover topics of biochemistry, the presentation of any previous experience of the candidate in the field of research, for the preparation of the thesis, or other, and the assessment of knowledge of the English language by reading and translating an excerpt from a scientific article.
Research Themes	• Identification of the pathogenetic mechanisms of Catel-Manzke syndrome, a rare genetic disease characterized by defects in skeletal development (1 grant funded by Università degli Studi di Genova) • Cellular and molecular mechanisms of posterior neurogenesis and noise pollution effects on nervous system in basal chordates (1 grant funded by Università degli Studi di Genova) • Control of tumor epigenetics and pharmacological interference in the mouse syngeneic melanoma and glioblastoma model (1 grant funded within D.M. 118 - ambito Ricerca PNRR) • International Training Program on NAD+: Determine the role of NAD+ and related enzymes/channels in brown adipose tissue activation and white fat "browning" (European project NADIS, reserved place).
Information on references	Candidates must choose not less than one and not more than three reference persons to support their candidacy. These reference persons must be University professors or experts in the subject. It is responsibility of the reference persons to send the reference letters, within the deadline of the call, to the Head of the curriculum of the doctoral course at the following address: Prof. Santina Bruzzone, santina.bruzzone@unige.it The personal details (name/surname, qualification, institution) of the reference persons must be reported by the candidate in the application form.
Foreign Languages	English
Further Information	Prof.ssa Santina Bruzzone DIMES, Sez. Biochimica Viale Benedetto XV 1 16132 Genova (+39) 0103538150 santina.bruzzone@unige.it www.dms.unige.it

Course: EXPERIMENTAL MEDICINE

Curriculum: PHARMACOLOGY AND TOXICOLOGY (CODE 9911)

Course Coordinator: Fedele Ernesto	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 3– **Grants**: 3 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual amount of the grant, gross of social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded within D.M. 118, 2.3.2023 (Ricerca PNRR), under condition of the approval of Ministerial funding; the annual amount of the grant, gross of social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001390006).	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	17 July 2023 – h 15:00 CEST In presence at the Department of Pharmacy (DIFAR), Pharmacology and Toxicology Section, Viale Cembrano 4, III floor, 16148 Genova or via Skype if requested by the candidate.
Exam Syllabus	The interview will focus on the candidate's previous experiences in the field of scientific research or during the preparation of the final dissertation; there will be also a critical discussion on the research project presented by the candidate. The knowledge of English Language will be assessed by reading and commenting part of a scientific article.
Research Themes	• Cross-talk between the central nervous system and the immune system with emphasis on the impact of complement on chemical synapses in an animal model of Multiple Sclerosis (1 grant funded by Università degli Studi di Genova). • Identification of new pharmacological targets able to influence the tumor microenvironment in both adults and child malignant brain tumours (1 grant funded by Università degli Studi di Genova). • Receptor-receptor interaction in the central nervous system; mechanisms of vulnerability to epilepsy in a mouse model of polyamine dysmetabolism (1 grant funded within D.M. 118 - ambito Ricerca PNRR).
Information on references	Candidates must choose not less than one and not more than three reference persons to support their candidacy. These reference persons must be University professors or experts in the subject. It is responsibility of the reference persons to send the reference letters, within the deadline of the call, to the Head of the curriculum of the doctoral course at the following address: Prof. Ernesto Fedele, ernesto.fedele@unige.it The personal details (name/surname, qualification, institution) of the reference persons chosen must be reported by the candidate in the application form.
Foreign Languages	English
Further Information	Prof. Ernesto Fedele University of Genoa DIFAR - Pharmacology and Toxicology Section Viale Cembrano 4 16148 Genoa (+39) 0103532659 ernesto.fedele@unige.it www.dms.unige.it

Course: EXPERIMENTAL MEDICINE

Curriculum: INTERNATIONAL CURRICULUM IN PHARMACOLOGY AND TOXICOLOGY (CODE 9912)
Curriculum in agreement with Maastricht University, Maastricht, The Netherlands

Course Coordinator: Fedele Ernesto	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual amount of the grant, gross of social security expenses to be paid by the recipient, is € 16.500,00	
At the end of the course a joint qualification will be awarded with Maastricht University, Maastricht, The Netherlands.	
An additional grant will be announced by the Maastricht University. The public notice of exam will be published at the address https://www.academictransfer.com/employer/UM/. Thus, there are overall two places available for the curriculum, 2 of which with grants.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	18 July 2023 – h 14:30 CEST In presence at the Department of Pharmacy (DIFAR), Pharmacology and Toxicology Section, Viale Cembrano 4, III floor, 16148 Genova or via Skype if requested by the candidate.
Exam Syllabus	The interview (in English) will focus on the candidate's previous experiences in the field of scientific research or during the preparation of the final dissertation; there will be also a critical discussion on the research project presented by the candidate.
Research Themes	• Behavioral studies on mouse models of neurodegenerative diseases (1 grant funded by Università degli Studi di Genova).
Information on references	Candidates must choose not less than one and not more than three reference persons to support their candidacy. These reference persons must be University professors or experts in the subject. It is responsibility of the reference persons to send the reference letters, within the deadline of the call, to the Head of the curriculum of the doctoral course at the following address: Prof. Ernesto Fedele ernesto.fedele@unige.it The personal details (name/surname, qualification, institution) of the reference persons must be reported by the candidate in the application form.
Foreign Languages	English
Further Information	Prof. Ernesto Fedele University of Genoa DIFAR - Pharmacology and Toxicology Section Viale Cembrano 4 16148 Genoa (+39) 0103532659 ernesto.fedele@unige.it www.dms.unige.it

Course: EXPERIMENTAL MEDICINE

Curriculum: MOLECULAR AND CELLULAR PATHOLOGY OF DISEASES CORRELATED TO AGEING (CODE 9913)

Course Coordinator: Fedele Ernesto	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual amount of the grant, gross of social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20 July 2023- h 10:00 CEST In presence at the Department of Experimental Medicine (DIMES), General Pathology Section, via L.B. Alberti 2, 16132 Genova or via Skype if requested by the candidate.
Exam Syllabus	The interview will cover topics in the pathology of aging and issues related to the research activity carried out by the candidate. Knowledge of the English language will be assessed by reading and translating a passage from a scientific article.
Research Themes	• Role of heme oxygenase 1 in cancer progression (1 grant funded by Università degli Studi di Genova). • Molecular mechanisms involved in the pathogenesis of Alzheimer's disease (1 grant funded by Università degli Studi di Genova).
Information on references	Candidates must choose not less than one and not more than three reference persons to support their candidacy. These reference persons must be University professors or experts in the subject. It is responsibility of the reference persons to send the reference letters, within the deadline of the call, to the Head of the curriculum of the doctoral course at the following address: Prof.ssa. Cinzia Domenicotti Cinzia.Domenicotti@unige.it The personal details (name/surname, qualification, institution) of the reference persons must be reported by the candidate in the application form.
Foreign Languages	English
Further Information	Prof.ssa Cinzia Domenicotti Università degli Studi di Genova DIMES - Sezione di Patologia Generale Via Leon Battista Alberti 2, 16132 Genova Cinzia.Domenicotti@unige.it www.dms.unige.it

Course: NEUROSCIENCES
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: CLINICAL AND EXPERIMENTAL NEUROSCIENCES (CODE 9914)

Course Coordinator: Nobili Lino	
Department of Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)	
Places: 8 – **Grants**: 8 (*)	
(*) 4 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 3 grants funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001400006) (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001400006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 21, 2023, 2,30 p.m. The interview will take place in person: Aula Magna della Clinica Neurologica, DINOGMI, Largo P. Daneo 3, Genova
Further information on how to present qualifications/publications	In the CV evaluation, the following items will be considered (according to relative importance): 1) Research project (an orginal research project in english signed by the candidate, on Neuroscience topics related to the research topics of the call, of a maximum of 10 pages (Arial 11 character). The project must include: Background and Rationale, Experimental Plan, Expected Results, Timeline of the Project, References); 2) Previous research work in the neuroscience field 3) Graduation score and degree thesis 4) Publications in scientific journals with IF 5) Recommendation letters 6) Prizes
Exam Syllabus	Description and defense of the research project proposed by the candidate.
Research Themes	**FOR GRANTS FUNDED BY UNIVERSITÀ DEGLI STUDI DI GENOVA** a) Neurology: multiple sclerosis and immuno-dependent CNS and PNS diseases, CNS degenerative diseases, epilepsy, sleep disorders, cerebrovascular diseases, extrapyramidal diseases and Parkinson disease; b) Psychiatry: affectivity disorders; obsessive compulsive disorder, schizophrenia, manic-depressive psychosis; c) Genetics of neurological disease; d) Developmental neurology: epilepsy, childhood cerebral palsy, autism spectrum disorder, extrapyramidal diseases, neuromuscular diseases; e) Neuroimaging: conventional MR and molecular imaging studies of neurological and psychiatric disorders; f) Neuropharmacology of dementias; g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neurotransmission and synaptic plasticity, neuroscience-applied nanotechnologies; h) Adult stem cell biology and applications to the treatment of neurological disease; i) Neuro-oncology: role of cancer stem cells in the development of brain tumors and their pharmacological characterization. **FOR GRANTS FUNDED WITHIN D.M. 118 – AMBITO: PUBBLICA AMMINISTRAZIONE** **1 GRANT referent Prof. Antonio Uccelli - co-funding Policlinico San Martino** **RESEARCH PROJECT:** Experimental study of the pathophysiological mechanisms of neuroinflammatory and neurodegenerative diseases using 7T magnetic resonance techniques" **1 GRANT referent Prof. Lino Nobili – co-funding Istituto G. Gaslini** **RESEARCH PROJECT:** development project of a web platform for collaboration and sharing for operators, doctors and patients of the Child Neuropsychiatry of the Istituto G. Gaslini. In particular: a) creation of a controlled and reserved space in which minor health workers and psychiatric patients can

move (prevision of work in groups or individuals)
b) creation of a system that offers sharing services, graphic creativity workspaces and use of audio-video content and multimedia content repository c) possibility of accessing protected audio-video content d) peer audio and video conferencing systems to peer or group, chat, post, etc

1 GRANT referent Prof. Lino Nobili –
RESEARCH PROJECT: Creation of transdisciplinary paths and protocols for patients affected by Rett Syndrome belonging to the Istituto Giannina Gaslini.
Objective: improvement of the assistance offer and development of new research activities.

FOR GRANT FUNDED WITHIN DM 118 – AMBITO: RICERCA PNRR

1 GRANT referent Prof.ssa M. Matilde Inglese
RESEARCH PROJECT: Study of brain plasticity in multiple sclerosis and neuromyelitis optica "spectrum disorder": integration of neuroimaging, electrophysiological and laboratory data

Information on references	Candidates should provide at least one and no more than 3 recommendation letters in support of their application. Letters should be provided by University Professors or Experts in Neuroscience. Letters should be sent to the coordinator of the "Clinical and experimental Neuroscience curriculum": Prof. Tullio Florio: tullio.florio@unige.it; and at the same time to Dr. Maria Paola Fenu: mpfenu@unige.it Name and address of the scientists requested to send a recommendation letter should be clearly indicated in the admission request.
Foreign Languages	English
Further Information	Further information can be requested to the coordinator of the "Clinical and experimental Neuroscience curriculum": Prof. Tullio Florio (tullio.florio@unige.it) or to Dr. Maria Paola Fenu (mpfenu@unige.it)

Course: NEUROSCIENCE
In Agreement with Istituto Italiano di Tecnologia (IIT)

Curriculum: NEUROSCIENCE AND NEUROTECHNOLOGIES (CODE 9915)

Coordinator: Nobili Lino	
Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili (DINOGMI)	
Places: 3 – **Grants**: 3 (*)	
(*) 3 grants funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Methods of comparative evaluation	QUALIFICATIONS/PUBLICATIONS
Further information on how to prepare the application	The following documents must be sent as described in the call text: a) title and brief description of the degree thesis; b) list of exams taken, with marks; c) postgraduate research activities (including abstracts at conferences and scientific publications); d) an original research project in English signed by the candidate, on Neuroscience topics related to the research topics of the call, of a maximum of 10 pages (Arial 11 character). The project must include: Background and Rationale, Experimental Plan, Expected Results, Timeline of the Project, References; e) names, qualification and places of employment of the referees, not less than 1 and not more than 3, who must send the reference letters on the candidate directly to the following mail address: rossana.ciancio@iit.it f) declaration of knowledge of English as used in the PhD school.
Research themes:	1) Cellular mechanisms underlying sensory information processing. Tutor: Tommaso Fellin tommaso.fellin@iit.it 2) Input specificity of plasticity at excitatory and inhibitory dendritic synapses Tutor: Andrea Barberis andrea.barberis@iit.it 3) Retinal organoids to assess visual restoration strategies in retinal degeneration Tutor: Fabio Benfenati fabio.benfenati@iit.it
Information about references	Candidates must choose not less than one and not more than three Referees to support their application. These contacts must be university professors or experts in the field. The Referees must be responsible for sending the reference letters as pdf files, within the deadline of the call, to the contact person of the Curriculum in Neuroscience and Brain Technologies, Prof. Fabio Benfenati, to the following mail address: rossana.ciancio@iit.it In the application, candidates have to list the name, position and affiliation of the chosen Referees.
Foreign language	English
Further information	For further information, please write to: rossana.ciancio@iit.it

Course: NEUROSCIENCES

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: MOTORY AND SPORTS ACTIVITIES SCIENCES (CODE 9916)

Course Coordinator: Nobili Lino	
Department of Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)	
Places: 4 – **Grants**: 4 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant cofunded by MUR/University and Lund University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant cofunded by MUR/University and Vrije Universiteit Brussel, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001400006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 20, 2023 2:30 p.m. Human Physiology Dept. of Experimental Medicine Viale Benedetto XV, n. 3 I-16132 Genoa (Italy)
Further information on how to present qualifications/publications	Evaluation of qualifications will concern: 1. Graduation marks of the second cycle (Master's) degree 2. Curriculum Vitae (included graduation thesis in pdf format) 3. Research experience at universities or research centers 4. Scientific publications 5. Research program submitted by the applicant
Exam Syllabus	The oral examination will be divided into two parts: 1) a scientific interview on the research topics of this PhD program, and on the applicant's research project, that will be evaluated on the basis of project contents, design, feasibility, and relevance for research topics related to this notice of competition; and 2) a motivational interview.
Research Themes	The main research topics concern: 1) Motor performance, motor learning and sensorimotor integration, movement kinematics, postural analysis, morphological and functional imaging 2) Sport performance: methodological approach to sport performance, relationships between physiological parameters, training and physical performance; sports nutrition. 3) The optimisation, adaptation and validation of the application of the Finite Helical Axis (FHA) approach for the analysis of kinematic data registered by different technologies to capture motion data. (in collaboration with Vrije Universiteit Brussel) 4) The role of multimorbidity in musculoskeletal diseases, a multi-method design project (in collaboration with University of Lund) **FOR GRANT FUNDED WITHIN DM 118 – RICERCA PNRR** **1 GRANT referent Prof. Angelo Schenone** RESEARCH PROJECT: Definition of clinical and experimental research protocols in the field of neurodegenerative diseases and application of instrumental methods for the identification of disease models and biomarkers.
Information on references	Applicants must submit from one to three letters of referees to support their application, which have to be sent to: Prof. Piero Ruggeri, e-mail: ruggeri@unige.it Tel.:+39 010-3538185 and to: Dott.ssa Maria Paola Fenu e-mail: mpfenu@unige.it

Foreign Languages	English
Further Information	Dott.ssa Maria Paola Fenu e-mail: mpfenu@unige.it Prof. Piero Ruggeri, e-mail: ruggeri@unige.it The winners of the co-financed scholarships will carry out their activities on the University Campus of Savona, at the REHELAB laboratory and will be required to spend a period abroad of between 6 and 18 months at the partner universities: Vrije Universiteit Brussel (research topic 3); University of Lund (research topic 4)

Course: NEUROSCIENCES

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: MOTORY AND SPORTS ACTIVITIES SCIENCES (CODE 9917)

Course Coordinator: Nobili Lino	
Department of Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)	
Places: 2 – **Grants**: 2 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of E.M.A.C. – ELETTRONICA MEDICALE ED ATTREZZATURE CHIMICOCLINICHE S.R.L., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Development, validation and clinical implementation of a hand strength rehabilitation tool and its integration into a robotic rehabilitation system (*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of MEDIWEBNET SRL, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Validation and clinical trials of devices for telerehabilitation and telemonitoring	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	July 20, 2023 5.00 p.m. Human Physiology Dept. of Experimental Medicine Viale Benedetto XV, n. 3 I-16132 Genoa (Italy)
Further information on how to present qualifications/publications	Evaluation of qualifications will concern: 1. Graduation marks of the second cycle (Master's) degree 2. Curriculum Vitae (included graduation thesis in pdf format) 3. Research experience at universities or research centers 4. Scientific publications 5. Research program submitted by the applicant
Exam Syllabus	The oral examination will be divided into two parts: 1) a scientific interview on the research topics of this PhD program, and on the applicant's research project, that will be evaluated on the basis of project contents, design, feasibility, and relevance for research topics related to this notice of competition; and 2) a motivational interview.
Research Themes	The main research topics concern: 1) Development, validation and clinical implementation of a hand strength rehabilitation tool and its integration into a robotic rehabilitation system 2) Validation and clinical trials of devices for telerehabilitation and telemonitoring
Information on references	Applicants must submit from one to three letters of referees to support their application, which have to be sent to: Prof. Piero Ruggeri, e-mail: ruggeri@unige.it Tel.:+39 010-3538185 and to: Dott.ssa Maria Paola Fenu e-mail: mpfenu@unige.it
Foreign Languages	English

Further Information	Dott.ssa Maria Paola Fenu e-mail: mpfenu@unige.it Prof. Piero Ruggeri, e-mail: ruggeri@unige.it The winners of the Liguria Region scholarships will carry out their activities on the Savona Campus, at the Rehelab laboratory and at the offices of the partner companies (EMAC srl and Mediwebnet srl). Months to be spent abroad: 0

Course: HEALTH SCIENCES

Curriculum: BIOSTATISTICS AND METHODS FOR ANALYSIS OF BIG DATA (CODE 9918)

Course Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 - **Grants**: 1 (*)	
(*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR) under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001410006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25/07/2023 at 9:30 am remotely on Microsoft Teams
Further information on how to present qualifications/publications	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
Exam Syllabus	The tests will focus on topics related to research topics.
Research Themes	1. Models for the study of prognostic factors, effect modifiers and surrogate endpoints 2. Meta analysis 3. Models for the study of disability trajectories 4. Methodological problems in the quantitative study of disease progression in chronic diseases 5. Early markers of prognosis and response to treatment 6. Methods for Big Data Analysis
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Maria Pia Sormani at the following address: mariapia.sormani@unige.it The name, status and service place of the referees, chosen by the candidates, must be stated in their applications.
Foreign Languages	English
Further Information	Administrative contact person: Giuseppe Zara E-mail: giuseppe.zara@unige.it

Course: HEALTH SCIENCES

Curriculum: EPIDEMIOLOGY AND VACCINE PREVENTION (CODE 9919)

Course Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant cofunded by MUR/Department (DISSAL), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25/07/2023 at 9:30 am remotely on Microsoft Teams
Further information on how to present qualifications/publications	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
Exam Syllabus	The tests will focus on topics related to research themes.
Research Themes	1. Epidemiology of communicable diseases preventable by vaccination - Design, organization and evaluation of systems clinical-epidemiological and virological surveillance - Design, standardization and evaluation of molecular techniques for the detection and characterization of microorganisms - Use of mathematical models to evaluate the impact of preventive interventions. 2. Immunological response to vaccine preparations - Design, standardization and evaluation of techniques for determine humoral response - Determinants of cell-mediated response - Clinical studies on monovalent and combined vaccines,inactivated and living attenuated, differently adjuvanted, administered by injection and mucosal routes, designed to assess their safety,tolerability, immunogenicity and efficacy - Association of different vaccine preparations and use of alternative schedules - studies on filed for the evaluation of the effectiveness. 3. Role of vaccinations in infants, children, adults and the elderly - Detection of vaccination coverage rates - Monitoring of preventable cases. 4. Regulatory and authorization aspects of vaccines - Ethical evaluations.
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Giancarlo Icardi at the following address: icardi@unige.it The name, status and service place of the referees, chosen by the candidates, must be stated in their applications.
Foreign Languages	English
Further Information	Administrative contact person: Giuseppe Zara E-mail: giuseppe.zara@unige.it

Course: HEALTH SCIENCES

Curriculum: INFECTIOUS AND TROPICAL DISEASES (CODE 9920)

Course Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 - **Grants**: 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25/07/2023 at 9:30 am remotely on Microsoft Teams
Further information on how to present qualifications/publications	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
Exam Syllabus	The tests will focus on topics related to research topics.
Research Themes	1. Infection in the immunocompromised host: epidemiological, diagnostic and therapy. 2. Antibiotic resistance and nosocomial infections: surveillance, epidemiology and clinical management. 3. HIV infection: immunological changes, opportunistic infections, antiretroviral therapy. 4. Chronic liver disease HCV and related HBV 5. Tuberculosis: epidemiology and drug resistance
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Matteo Bassetti at the following address: matteo.bassetti@unige.it The name, status and service place of the referees, chosen by the candidates, must be stated in their applications.
Foreign Languages	English
Further Information	Administrative contact person: Giuseppe Zara E-mail: giuseppe.zara@unige.it

Course: HEALTH SCIENCES

Curriculum: FORENSIC AND OCCUPATIONAL MEDICINE (CODE 9921)

Course Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 - **Grants**: 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25/07/2023 at 9:30 am remotely on Microsoft Teams
Further information on how to present qualifications/publications	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
Exam Syllabus	The tests will focus on topics related to research topics.
Research Themes	**Legal Medicine Topics:** 1) Management of medico-legal litigation in the health sector, with particular reference to damage from medical error and to the evaluation and prevention of nosocomial infections. 2) Diagnosis of death, prevention and research applied to the study of the corpse subjected to diagnostic verification and judicial autopsy, with particular reference to sudden deaths from cardiac causes and suicides. 3) Study and evaluation of the victim of sexual violence with the application of consolidated multidisciplinary protocols. 4) Study and evaluation of the victim of abuse in the family with particular reference to the abuse of the elderly, women and children. 5) Individual identification on living, corpse and biological traces, through the study of DNA. 6) Clinical Legal Medicine with particular evaluation of the incapable patient. 7) Evidence Based Medicine applied to Forensic Medicine. **Occupational Medicine Topics:** 1) Work hygiene 2) Assessment and prevention of occupational biological risk, with particular reference to the health service 3) Assessment and prevention of chemical and carcinogenic risks in the workplace, with particular reference to the health service 4) Occupational immunoprophylaxis 5) Evidence Based Medicine applied to Occupational Medicine 6) Study and validation of new digital tools for epidemiological surveillance of accidents at work and occupational diseases 7) Allergology and specific immunotherapy in the workplace 8) Study and prevention of night obstructive apnea syndrome (OSAS) in the occupational field
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Francesco Ventura at the following address: francesco.ventura@unige.it The name, status and service place of the referees, chosen by the candidates, must be stated in their applications.
Foreign Languages	English
Further Information	Administrative contact person: Giuseppe Zara E-mail: giuseppe.zara@unige.it

Course: HEALTH SCIENCES

Curriculum: NURSING (CODE 9922)

Course Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 - **Grants**: 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25/07/2023 at 9:30 am remotely on Microsoft Teams
Further information on how to present qualifications/publications	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
Exam Syllabus	The tests will focus on topics related to research topics.
Research Themes	1. Patient safety and prevention of the risk of error in the care processes. 2. Prevention of education and assistance to the person with chronic health problems 3. Family and Patient Centred Care and Child and family Centred Care 4. Innovative models for health skills training.
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Annamaria Bagnasco at the following address: annamaria.bagnasco@unige.it The name, status and service place of the referees, chosen by the candidates, must be stated in their applications.
Foreign Languages	English
Further Information	Administrative contact person: Giuseppe Zara E-mail: giuseppe.zara@unige.it

Course: HEALTH SCIENCES

Curriculum: PREVENTION OF CANCER AND OF CHRONIC DEGENERATIVE DISEASES (CODE 9923)

Course Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 - **Grants**: 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25/07/2023 at 9:30 am remotely on Microsoft Teams
Further information on how to present qualifications/publications	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
Exam Syllabus	The tests will focus on topics related to research topics.
Research Themes	1. Molecular epidemiology of tumors and other chronic degenerative diseases 2. Dietary and pharmacological prevention of tumors 3. Prevention of cardiovascular diseases, ophthalmological pathologies and neurogenerative forms 4. Molecular alterations and tumors induced by cigarette smoking and their prevention 5. Study of factors of genetic predisposition to tumors
Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Alberto Izzotti at the following address: izzotti@unige.it The name, status and service place of the referees, chosen by the candidates, must be stated in their applications.
Foreign Languages	English
Further Information	Administrative contact person: Giuseppe Zara giuseppe.zara@unige.it

Course: ROBOTICS AND INTELLIGENT MACHINES – Italian national doctorate [1]

Dottorato di "interesse nazionale" in convenzione con Università di PISA, Università degli Studi di NAPOLI Federico II, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Politecnico di MILANO, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Sapienza Università di ROMA, Università degli Studi della Campania "Luigi Vanvitelli", Università degli Studi di PALERMO, Politecnico di TORINO, Università Politecnica delle MARCHE, Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT), Consiglio Nazionale delle Ricerche (CNR) e Scuola Superiore Sant'Anna

Curriculum: AGRIFOOD (CODE 9924)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 3 – **Grants**: 3 (*)	

(*) 2 grants funded within D.M. 118/Ricerca PNRR dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00
      o   research themes nr.: 2, 3 (CUP D32B23001600006).
 (*) 1 grant funded within D.M. 118/Transizione digitale-ambientale dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001610006)
      o research themes nr.: 1.	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW **24 July 2023 at 9:00 am** More detailed information on the interview will be sent via email to all candidates admitted to the interview [2] Candidates are ranked separately for each research theme they applied. **Step 1 – Assessment of qualifications** (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters. Candidates are admitted to Step 2 if their score is greater than or equal to 40 points. **Step 2 – Oral examination** (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview. The oral examination for each research theme is passed if the score is greater than or equal to 40 points. The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on how to present qualifications/publications	Candidates **must**: – submit the **complete list of all the exams sat during their Bachelor's and Master's degree** and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator); – specify **up to three research themes** of their interest (see the research themes listed below and at [Admission – Drim – Irim (i-rim.it))](Admission – Drim – Irim (i-rim.it)); – submit **a motivation letter** (Research project) related to one (or more) of the research themes selected; use the template available at Admission – Drim – Irim (i-rim.it) ; – submit a **Curriculum Vitae** including all the technical scientific studies/activities already done and pertinent to the doctoral program; – submit **up to 3 recommendation letters** from university professors or recognized experts in the field supporting the candidate;
Research Themes	1. AUTONOMOUS ROBOT FOR INSPECTION IN UNSTRUCTURED ENVIRONMENTS – UNIVERSITÀ DI PADOVA 2. MANIPULATION OF FRUITS AND VEGETABLES – UNIVERSITÀ DELLA

	CAMPANIA
	3. ROBOTIC DEVICES FOR HORTICULTURE FERTILIZATION AND MONITORING – POLITECNICO DI TORINO

For a complete description of the research themes proposed check: Admission – Drim – Irim (i-rim.it) |
| **Information on references** | Candidates must choose no more than three recommenders to endorse their candidature. The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: https://forms.gle/TT4UwLqrjf88Cban6 |
| **Foreign Languages** | English |
| **Further Information** | For more information about

- the research themes please check the contact person indicated in the project themes description file available at: Admission – Drim – Irim (i-rim.it)

- the doctorate rules and structure please check: RULES – Drim – Irim (i-rim.it) CURRICULA AND THEMES – Drim – Irim (i-rim.it)

- for other enquiries contact the Doctorate Secretary: phd_drim@unige.it

A step-by-step guideline for the application is available here: https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf |

[1] Information updated following communication of the course coordinator dated 14.06.2023
[2] Information updated following communication of the course coordinator dated 20.06.2023

Course: ROBOTICS AND INTELLIGENT MACHINES – Italian national doctorate [1]

Dottorato di "interesse nazionale" in convenzione con Università di PISA, Università degli Studi di NAPOLI Federico II, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Politecnico di MILANO, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Sapienza Università di ROMA, Università degli Studi della Campania "Luigi Vanvitelli", Università degli Studi di PALERMO, Politecnico di TORINO, Università Politecnica delle MARCHE, Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT), Consiglio Nazionale delle Ricerche (CNR) e Scuola Superiore Sant'Anna

Curriculum: HEALTHCARE AND WELLNESS OF PERSONS (CODE 9925)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places 20 – **Grants**: 20 (*) [2]	

(*) 4 grants funded by proponents, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00
    o   research themes nr.: 1, 2, 3, 17.
 (*) 2 grants funded by proponents, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00
    o   research themes nr.: 10 (funded by European project RĔGO (rego-project.eu) – CUP J53C22002630006).
    o   research themes nr.: 15 (partly funded by the European Project <u>ODIN</u> - Leveraging AI based technology to transform the future of health care delivery in Leading Hospitals in Europe funded under program H2020 ccode 101017331 (topic: H2020-DT-2018-2020; call id: H2020-DT-2020-1), code CUP C85F21000670006, and partly by research funds of the Università Campus Bio-Medico di Roma).
 (*) 4 grants funded within D.M. 118/PNRR dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001600006)
    o   research themes nr.: 4, 12, 13, 14..
 (*) 3 grants funded within D.M. 118/P.A. dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001600006)
    o   research themes nr.: 5, 8, 20. [2]
 (*) 2 grants funded within D.M. 118/Transizione digitale-ambientale dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001610006)
    o   research themes nr.: 18, 19..
 (*) 4 grants funded within D.M. 117 dated 2.3.2023 (cofinaziata da: indicare l'ente/azienda cofinanziatrice), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23000660004).
    o   research themes nr.: :6 (Scuola di Robotica), 7 (ReWing s.r.l.), 9 (BionIt Labs s.r.l.), 11 (MedLogix s.r.l.).
 (*) 1 grant funded under project PNNR FIT4MED (ref. Antonio Bicchi), Dip. Ingegneria Informazione, Progetto U-GOV: NC_ING_INF_FITFORMEDROB_SPOKE_1.	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW **24 July 2023 at 9:00 am** More detailed information on the conduct of the interview will be sent via email to all candidates admitted to the interview [3] Candidates are ranked separately for each research theme they applied. **Step 1 – Assessment of qualifications** (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters. Candidates are admitted to Step 2 if their score is greater than or equal to 40 points. **Step 2 – Oral examination** (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview. The oral examination for each research theme is passed if the score is greater than or equal to 40 points. The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).

Further information on how to present qualifications/publications	Candidates **must**: – submit the **complete list of all the exams sat during their Bachelor's and Master's degree** and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator); – specify **up to three research themes** of their interest (see the research themes listed below and at Admission – Drim – Irim (i-rim.it)); – submit **a motivation letter** (Research project) related to one (or more) of the research themes selected; use the template available at: Admission – Drim – Irim (i-rim.it) ; – submit a **Curriculum Vitae** including all the technical scientific studies/activities already done and pertinent to the doctoral program; – submit **up to 3 recommendation letters** from university professors or recognized experts in the field supporting the candidate;
Research Themes	1. A "diversity-aware" personal robot trainer with social acuity to help people change unhealthy habits – University of Genova 2. Sensor-based control of robots for human-robot cooperative operations – University of Genova 3. Bi-directional Body-Machine interfaces for assistance and rehabilitation – Universita' di Genova 4. Diversity-aware driving simulator for assessment and training of cognitive and sensorimotor abilities– Universita' di Genova 5. New Technologies to train and assess medical and surgical skills – University of Genova 6. Technologies and methods to monitor, assess and train people with special needs with a focus on neurocognitive impairments – University of Genova 7. Robot-Assisted Sensorimotor Rehabilitation for Upper Limb Impairments – University of Genova 8. Sensing for Medical Robotics – Scuola Superiore Sant'Anna 9. Robotic hands for prosthetic use– Politecnico di Bari 10. High-level cognitive-based control and human-machine interfaces - Italian Institute of Technology 11. Human-robot coexistence and interaction in robot-assisted medical procedures – Sapienza Università di Roma 12. Artificial sensory feedback to assist motor functions - Universita' di Milano Bicocca 13. Bacteriabots: MicroRobots with Embedded Biological Intelligence – University of Salento/Italian Institute of Technology 14. Augmenting Humans Using Wearable Sensorimotor Interfaces – Università degli Studi di Siena 15. Mechanical components for robots in healthcare 4.0 – Universita' Campus Bio-Medico Roma 16. Shared-Autonomy Architectures for Assistive Robotics in Healthcare Environments – University of Pisa 17. Social robot assistant for intelligent health care – Universita' di Palermo 18. Proactivity and Adaptation in Socially Assistive Robotics – Università degli Studi di Napoli Federico II 19. Robotic diagnosis for remotely located patients based on ultrasound signals – Università di Trento 20. Augmented reality for safer surgical robotics – Politecnico di Milano [2] For a complete description of the research themes proposed check: Admission – Drim – Irim (i-rim.it)

Information on references	Candidates must choose no more than three recommenders to endorse their candidature. The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: https://forms.gle/TT4UwLqrjf88Cban6
Foreign Languages	English
Further Information	For more information about - the research themes please check the contact person indicated in the project themes description file available at: Admission – Drim – Irim (i-rim.it) - the doctorate rules and structure please check: RULES – Drim – Irim (i-rim.it) CURRICULA AND THEMES – Drim – Irim (i-rim.it) - for other enquiries contact the Doctorate Secretary: phd_drim@unige.it A step-by-step guideline for the application is available here: https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf

[1] Information updated following communication of the course coordinator dated 14.06.2023
[2] 1 position with grant added following communication of the course coordinator dated 14.06.2023
[3] Information updated following communication of the course coordinator dated 20.06.2023

Course: ROBOTICS AND INTELLIGENT MACHINES – Italian national doctorate [1]

Dottorato di "interesse nazionale" in convenzione con Università di PISA, Università degli Studi di NAPOLI Federico II, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Politecnico di MILANO, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Sapienza Università di ROMA, Università degli Studi della Campania "Luigi Vanvitelli", Università degli Studi di PALERMO, Politecnico di TORINO, Università Politecnica delle MARCHE, Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT), Consiglio Nazionale delle Ricerche (CNR) e Scuola Superiore Sant'Anna

Curriculum: HOSTILE AND UNSTRUCTURED ENVIRONMENTS (CODE 9926)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 17 – **Grants**: 16 (*) [3]	

(*) 9 grants funded by proponents, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00
    o   research themes nr.: 2, 3, 4, 5, 6, 7, 12, 15. [3]
(*) 3 grants funded by IIT, including social security expenses to be paid by the recipient, is € 16.500,00
    o   research themes nr.: 1 (funded by Horizon Europe Programme under Grant Agreement No 101070227 – CUP J53C22003160006).
    o   research themes nr.: 8 (funded by Horizon Europe Programme project euROBIN (https://www.eurobin-project.eu/) under Grant Agreement No 101070596 – CUP J53C22002180006)
(*) 2 grants funded within D.M. 118/PNRR dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001600006)
    o   research themes nr.: 10, 13.
(*) 1 grant funded within D.M. 118/P.A. dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001600006)
    o   research themes nr.: 9
(*) 1 grant funded within D.M. 118/Transizione digitale-ambientale dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001610006)
    o   research themes nr.: 14
(*) 1 position reserved for Bosch Gmbh employees
    o research themes nr.: 11	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW **26 July 2023 at 9:00 am** More detailed information on the conduct of the interview will be sent via email to all candidates admitted to the interview [2] Candidates are ranked separately for each research theme they applied. **Step 1 – Assessment of qualifications** (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters. Candidates are admitted to Step 2 if their score is greater than or equal to 40 points. **Step 2 – Oral examination** (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview. The oral examination for each research theme is passed if the score is greater than or equal to 40 points. The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on how to present qualifications/publications	Candidates **must**: – submit the **complete list of all the exams sat during their Bachelor's and Master's degree** and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent

	indicator);
	– specify **up to three research themes** of their interest (see the research themes listed below and at Admission – Drim – Irim (i-rim.it));
	– submit **a motivation letter** (Research project) related to one (or more) of the research themes selected; use the template available at: Admission – Drim – Irim (i-rim.it) ;
	– submit a **Curriculum Vitae** including all the technical scientific studies/activities already done and pertinent to the doctoral program;
	– submit **up to 3 recommendation letters** from university professors or recognized experts in the field supporting the candidate;
Research Themes	1. HUMAN-AWARE ROBOT NAVIGATION – ISTITUTO ITALIANO DI TECNOLOGIA
	2. MULTI-MODAL OBJECT GRASPING AND MANIPULATION – ISTITUTO ITALIANO DI TECNOLOGIA (2 POSITIONS)
	3. NEUROMORPHIC DISTRIBUTED INTELLIGENCE FOR SOFT ROBOTS – COMPUTATION WITH SPIKING NEURAL NETWORKS FOR HAPTIC PERCEPTION AND CLOSED LOOP CONTROL OF SOFT ROBOTS – ITALIAN INSTITUTE OF TECHNOLOGY
	4. NEUROMORPHIC DISTRIBUTED INTELLIGENCE FOR SOFT ROBOTS – DESIGN OF NEUROMORPHIC CIRCUITS ON FLEXIBLE SUBSTRATES FOR SENSING AND COMPUTATION – ITALIAN INSTITUTE OF TECHNOLOGY
	5. ONLINE NEUROMORPHIC PERCEPTION AND ACTUATION FOR ROBOTS – ITALIAN INSTITUTE OF TECHNOLOGY
	6. SOFT ROBOTICS TECHNOLOGIES FOR MARINE ENVIRONMENT – ISTITUTO ITALIANO DI TECNOLOGIA
	7. SOFT ROBOTICS FOR HUMAN COOPERATION AND REHABILITATION – ISTITUTO ITALIANO DI TECNOLOGIA
	8. AUTONOMOUS LOCO-MANIPULATION PLANNING FOR LOGISTICS MOBILE ROBOTS – ISTITUTO ITALIANO DI TECNOLOGIA (2 POSITIONS)
	9. ROBOT NAVIGATION ANYWHERE: MOVING AROUND AUTONOMOUSLY IN HOSTILE AND UNSTRUCTURED ENVIRONMENTS – UNIVERSITY OF GENOVA
	10. AUGMENTED REALITY STRATEGIES FOR TEAMS OF ROBOTS – UNIVERSITY OF GENOVA
	11. EASY-TO-USE MODELS AND TOOLS FOR SCALABLE VERIFICATION OF ROBOTICS DELIBERATION - UNIVERSITA' DI GENOVA/BOSCH (**)
	12. SITUATIONAL AWARENESS IN MARITIME ENVIRONMENTS – UNIVERSITÀ DI GENOVA
	13. MARINE BIOMIMETIC CYBER-PHYSICAL SYSTEM(S) FOR OCEAN DOCUMENTATION – UNIVERSITÀ POLITECNICA DELLE MARCHE
	14. PLANNING AND CONTROL TECHNIQUES FOR HIGH-LEVEL AUTONOMY OF ROBOTS – UNIVERSITY OF PISA
	15. DISTRIBUTED TACTILE SENSING FOR ELEPHANT-TRUNK INSPIRED SOFT MANIPULATORS – ITALIAN INSTITUTE OF TECHNOLOGY [3]
	For a complete description of the research themes proposed check: Admission – Drim – Irim (i-rim.it)
Information on references	Candidates must choose no more than three recommenders to endorse their candidature. The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: https://forms.gle/TT4UwLqrjf88Cban6
Foreign Languages	English
Further Information	For more information about
	- the research themes please check the contact person indicated in the project themes

	description file available at: Admission – Drim – Irim (i-rim.it) - the doctorate rules and structure please check: RULES – Drim – Irim (i-rim.it) CURRICULA AND THEMES – Drim – Irim (i-rim.it) - other enquiries contact the Doctorate Secretary: phd_drim@unige.it A step-by-step guideline for the application is available here: https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf

[1] Information updated following communication of the course coordinator dated 14.06.2023
[2] Information updated following communication of the course coordinator dated 20.06.2023
[3] 1 position with grant following communication of IIT dated 29.06.2022

Course: ROBOTICS AND INTELLIGENT MACHINES – Italian national doctorate [1]
Dottorato di "interesse nazionale" in convenzione con Università di PISA, Università degli Studi di NAPOLI Federico II, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Politecnico di MILANO, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Sapienza Università di ROMA, Università degli Studi della Campania "Luigi Vanvitelli", Università degli Studi di PALERMO, Politecnico di TORINO, Università Politecnica delle MARCHE, Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT), Consiglio Nazionale delle Ricerche (CNR) e Scuola Superiore Sant'Anna

Curriculum: INDUSTRY 4.0 (CODE 9927)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 15 – **Grants**: 15 (*)	

(*) 3 grants funded by proponents, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 [3]
     o   research themes nr.: 5 (funded by IIT), 10, 14 [3]
 	
 (*) 2 grants funded by proponents, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00
     o   research themes nr.: 11 (CNR-STIIMA project "Metodologie e strumenti per la progettazione e gestione dell'impresa digitale" (ID), code DIT.AD008.163).
     o   research themes nr.: 12 (CNR-STIIMA project "Micro Enabled Robotics and Technologies" (ID), code DIT.AD008.191).
 	
 (*) 4 grants funded within D.M. 118/PNRR dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001600006) [3]
     o   research themes nr.: 1, 2, 6, 9, ~~14~~. [3]
 	
 (*) 2 grants funded within D.M. 118/P.A. dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001600006)
     o   research themes nr.: 4, 8.
 	
 (*) 1 grant funded within D.M. 118/Transizione digitale-ambientale dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001610006)
     o   research themes nr.: 7.
 	
 (*) 3 grants funded within D.M. 117 dated 2.3.2023 (cofinaziata da: indicare l'ente/azienda cofinanziatrice), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23000660004).
     o research themes nr.: 3 (Magic Leap Inc.), 15 (Leonardo s.p.a.), 17 (Arol s.p.a.)..	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW **20 July 2023 at 9:00 am** More detailed information on the conduct of the interview will be sent via email to all candidates admitted to the interview [2] Candidates are ranked separately for each research theme they applied. **Step 1 – Assessment of qualifications** (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters. Candidates are admitted to Step 2 if their score is greater than or equal to 40 points. **Step 2 – Oral examination** (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview. The oral examination for each research theme is passed if the score is greater than or equal to 40 points. The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on how to present qualifications/publications	Candidates **must**: – submit the **complete list of all the exams sat during their Bachelor's and Master's degree**

	and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator);
	– specify **up to three research themes** of their interest (see the research themes listed below and at Admission – Drim – Irim (i-rim.it));
	– submit **a motivation letter** (Research project) related to one (or more) of the research themes selected; use the template available at: Admission – Drim – Irim (i-rim.it) ;
	– submit a **Curriculum Vitae** including all the technical scientific studies/activities already done and pertinent to the doctoral program;
	– submit **up to 3 recommendation letters** from university professors or recognized experts in the field supporting the candidate;
Research Themes	INNOVATIVE MECHATRONIC SOLUTIONS FOR ROBOTICS AND AUTOMATIC MACHINES– UNIVERSITY OF BOLOGNA 2. OPTIMAL MOTION PLANNING FOR REDUNDANT AND ADAPTIVE INDUSTRIAL COLLABORATIVE ROBOTIC SYSTEMS – FREE UNIVERSITY OF BOZEN-BOLZANO 3. NEW METHODS FOR REALISTIC AND COMFORTABLE EXPERIENCES IN AR – UNIVERSITA' DI GENOVA 4. SHARED CONTROL FOR ROBOTIC ASSISTED DRILLING TASKS – UNIVERSITY OF GENOA 5. CYBER-PHYSICAL SOCIAL SECURITY APPLIED TO EMERGENT INNOVATIVE TECHNOLOGIES – UNIVERSITY OF GENOA AND ITALIAN INSTITUTE OF TECHNOLOGY 6. I4.0 INTELLIGENT ROBOTIC MANUFACTURING CELLS – UNIVERSITY OF MODENA AND REGGIO EMILIA 7. HUMAN- AND ENVIRONMENT-ROBOT INTERACTION WITH SOFT MANIPULATORS - SAPIENZA UNIVERSITÀ DI ROMA 8. GEOMETRIC AND PHYSICS-AWARE ROBOT LEARNING FOR CONTACT-RICH MANIPULATION - UNIVERSITÀ DI TRENTO 9. ROBOTIC TRAJECTORY PLANNING FOR INDUSTRIAL SUSTAINABILITY – UNIVERSITÀ DI UDINE 10. IMPROVE HUMAN-COBOT COOPERATION IN THE AUTOMATION OF MADE-IN-ITALY CRAFT PRODUCTION – POLYTECHNIC UNIVERSITY OF MARCHE 11. INTEGRATION OF MACHINE LEARNING AND KNOWLEDGE REPRESENTATION FOR DIGITAL FACTORY TWIN APPLICATIONS – CNR-STIIMA 12. MICRO-ROBOTIC MANIPULATION AND CHARACTERIZATION OF BIOLOGICAL SAMPLES – CNR-STIIMA 14. HUMAN-ROBOT COLLABORATION – UNIVERSITÀ DI GENOVA 15. HUMAN/ROBOT COLLABORATION IN COOPERATIVE ASSEMBLY TASKS – LEONARDO S.P.A. AND UNIVERSITÀ DI GENOVA 17. AI AND ROBOTICS FOR INNOVATIVE CLOSURE AND CAPPING SYSTEMS IN FOOD AND BEVERAGE INDUSTRY – POLITECNICO DI BARI For a complete description of the research themes proposed check: Admission – Drim – Irim (i-rim.it)
Information on references	Candidates must choose no more than three recommenders to endorse their candidature. The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: https://forms.gle/TT4UwLqrjf88Cban6
Foreign Languages	English
Further Information	For more information about - the research themes please check the contact person indicated in the project themes description file available at:

| | Admission – Drim – Irim (i-rim.it)

- the doctorate rules and structure please check:
  RULES – Drim – Irim (i-rim.it)
  CURRICULA AND THEMES – Drim – Irim (i-rim.it)

- for other enquiries contact the Doctorate Secretary:
  phd_drim@unige.it

A step-by-step guideline for the application is available here:
https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf |

[1] Information updated following communication of the course coordinator dated 14.06.2023
[2] Information updated following communication of the course coordinator dated 20.06.2023
[3] Information updated following communication of the course coordinator dated 3.07.2023: 1 position with grant funded within D.M. 118/PNRR dated 2.3.2023 deleted, 1 position with grant by proponents added

Course: ROBOTICS AND INTELLIGENT MACHINES – Italian national doctorate [1]
Dottorato di "interesse nazionale" in convenzione con Università di PISA, Università degli Studi di NAPOLI Federico II, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Politecnico di MILANO, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Sapienza Università di ROMA, Università degli Studi della Campania "Luigi Vanvitelli", Università degli Studi di PALERMO, Politecnico di TORINO, Università Politecnica delle MARCHE, Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT), Consiglio Nazionale delle Ricerche (CNR) e Scuola Superiore Sant'Anna

Curriculum: INDUSTRY 4.0 (CODE 9928)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 2 – **Grants**: 2 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Hiro Robotics s.r.l., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Robotics and AI for electronic waste recycling (*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of SAIE E&A Società Cooperativa [2], under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Large Language Models in the Field of Industrial Automation	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	**20 July 2023 at 9:00 am** More detailed information on the conduct of the interview will be sent via email to all candidates admitted to the interview [3] Candidates are ranked separately for each research theme they applied. **Step 1 – Assessment of qualifications** (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters. Candidates are admitted to Step 2 if their score is greater than or equal to 40 points. **Step 2 – Oral examination** (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview. The oral examination for each research theme is passed if the score is greater than or equal to 40 points. The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on how to present qualifications/publications	Candidates **must**: – submit the **complete list of all the exams sat during their Bachelor's and Master's degree** and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator); – specify **up to three research themes** of their interest (see the research themes listed below and at Admission – Drim – Irim (i-rim.it)); – submit **a motivation letter** (Research project) related to one (or more) of the research themes selected; use the template available at: Admission – Drim – Irim (i-rim.it) ;

	– submit a **Curriculum Vitae** including all the technical scientific studies/activities already done and pertinent to the doctoral program; – submit **up to 3 recommendation letters** from university professors or recognized experts in the field supporting the candidate;
Research Themes	Grant funded within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f) 16. ROBOTICS AND AI FOR ELECTRONIC WASTE RECYCLING– UNIVERSITÀ DEGLI STUDI DI GENOVA (*) 13. LARGE LANGUAGE MODELS IN THE FIELD OF INDUSTRIAL AUTOMATION – UNIVERSITÀ DI GENOVA (*) For a complete description of the research themes proposed check: Admission – Drim – Irim (i-rim.it)
Information on references	Candidates must choose no more than three recommenders to endorse their candidature. The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: https://forms.gle/TT4UwLqrjf88Cban6
Foreign Languages	English
Further Information	For more information about - the research themes please check the contact person indicated in the project themes description file available at: Admission – Drim – Irim (i-rim.it) - the doctorate rules and structure please check: RULES – Drim – Irim (i-rim.it) CURRICULA AND THEMES – Drim – Irim (i-rim.it) - for other enquiries contact the Doctorate Secretary: phd_drim@unige.it A step-by-step guideline for the application is available here: https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

[1] Information updated following communication of the course coordinator dated 14.06.2023
[2] Information updated following communication of the course coordinator dated 12.06.2023
[3] Information updated following communication of the course coordinator dated 20.06.2023

Course: ROBOTICS AND INTELLIGENT MACHINES – Italian national doctorate [1]
Dottorato di "interesse nazionale" in convenzione con Università di PISA, Università degli Studi di NAPOLI Federico II, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Politecnico di MILANO, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Sapienza Università di ROMA, Università degli Studi della Campania "Luigi Vanvitelli", Università degli Studi di PALERMO, Politecnico di TORINO, Università Politecnica delle MARCHE, Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT), Consiglio Nazionale delle Ricerche (CNR) e Scuola Superiore Sant'Anna

Curriculum: INSPECTION AND MAINTENANCE OF INFRASTRUCTURES (CODE 9929)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places:4 – **Grants**: 4 (*)	

(*) 2 grants funded by proponents, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00
    o   research themes nr.: 2, 5.
(*) 1 grants funded within D.M. 118/PNRR dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001600006)
    o   research themes nr.: 1.
(*) 1 grants funded within D.M. 117 dated 2.3.2023 (cofinaziata da: indicare l'ente/azienda cofinanziatrice), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23000660004).
    o research themes nr.: 3 (Leonardo s.p.a.)	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW **24 July 2023 at 9:30 am** More detailed information on the conduct of the interview will be sent via email to all candidates admitted to the interview [2] Candidates are ranked separately for each research theme they applied. **Step 1 – Assessment of qualifications** (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters. Candidates are admitted to Step 2 if their score is greater than or equal to 40 points. **Step 2 – Oral examination** (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview. The oral examination for each research theme is passed if the score is greater than or equal to 40 points. The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on how to present qualifications/publications	Candidates **must**: – submit the **complete list of all the exams sat during their Bachelor's and Master's degree** and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator); – specify **up to three research themes** of their interest (see the research themes listed below and at Admission – Drim – Irim (i-rim.it)); – submit **a motivation letter** (Research project) related to one (or more) of the research themes selected; use the template available at: Admission – Drim – Irim (i-rim.it) ; – submit a **Curriculum Vitae** including all the technical scientific studies/activities already done and pertinent to the doctoral program; – submit **up to 3 recommendation letters** from university professors or recognized experts in the field supporting the candidate;

Research Themes	1. CONTROL OF UNDERWATER VEHICLE-MANIPULATOR SYSTEMS FOR INSPECTION, MAINTENANCE, AND REPAIR TASKS – UNIVERSITY OF FLORENCE 2. INTERACTION AND WELLBEING IN EXTENDED REALITY WORLD USING DEEP LEARNING MODELS IN MULTIPLE INDUSTRIAL CONTEXTS - CNR-STIIMA 3. QUADRUPEDAL LOCOMOTION AND NAVIGATION ON UNSTRUCTURED SCENARIOS – LEONARDO S.P.A. AND UNIVERSITÀ DI GENOVA 5. UNDERWATER INSPECTION AND MAINTENANCE WITH MARINE ROBOTS - UNIVERSITÀ DI GENOVA For a complete description of the research themes proposed check: Admission – Drim – Irim (i-rim.it)
Information on references	Candidates must choose no more than three recommenders to endorse their candidature. The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: https://forms.gle/TT4UwLqrjf88Cban6
Foreign Languages	English
Further Information	For more information about - the research themes please check the contact person indicated in the project themes description file available at: Admission – Drim – Irim (i-rim.it) - the doctorate rules and structure please check: RULES – Drim – Irim (i-rim.it) CURRICULA AND THEMES – Drim – Irim (i-rim.it) - for other enquiries contact the Doctorate Secretary: phd_drim@unige.it A step-by-step guideline for the application is available here: https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf

[1] Information updated following communication of the course coordinator dated 14.06.2023
[2] Information updated following communication of the course coordinator dated 20.06.2023

Course: ROBOTICS AND INTELLIGENT MACHINES – Italian national doctorate [1]
Dottorato di "interesse nazionale" in convenzione con Università di PISA, Università degli Studi di NAPOLI Federico II, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Politecnico di MILANO, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Sapienza Università di ROMA, Università degli Studi della Campania "Luigi Vanvitelli", Università degli Studi di PALERMO, Politecnico di TORINO, Università Politecnica delle MARCHE, Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT), Consiglio Nazionale delle Ricerche (CNR) e Scuola Superiore Sant'Anna

Curriculum: INSPECTION AND MAINTENANCE OF INFRASTRUCTURES (CODE 9930)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of JPDRONI s.p.a., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: AUTONOMOUS MULTIROTOR AERIAL DRONES FOR THE INSPECTION OF INDUSTRIAL FACILITIES	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	**24 July 2023 at 9:30 am** More detailed information on the conduct of the interview will be sent via email to all candidates admitted to the interview [2] Candidates are ranked separately for each research theme they applied. **Step 1 – Assessment of qualifications** (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters. Candidates are admitted to Step 2 if their score is greater than or equal to 40 points. **Step 2 – Oral examination** (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview. The oral examination for each research theme is passed if the score is greater than or equal to 40 points. The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on how to present qualifications/publications	Candidates **must**: – submit the **complete list of all the exams sat during their Bachelor's and Master's degree** and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator); – specify **up to three research themes** of their interest (see the research themes listed below and at <u>Admission – Drim – Irim (i-rim.it))</u>; – submit **a motivation letter** (Research project) related to one (or more) of the research themes selected; use the template available at: <u>Admission – Drim – Irim (i-rim.it)</u> ; – submit a **Curriculum Vitae** including all the technical scientific studies/activities already done and pertinent to the doctoral program; – submit **up to 3 recommendation letters** from university professors or recognized experts

	in the field supporting the candidate;
Research Themes	Grant funded within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f) 4. AUTONOMOUS MULTIROTOR AERIAL DRONES FOR THE INSPECTION OF INDUSTRIAL FACILITIES – JPDRONI S.P.A. AND UNIVERSITÀ DI GENOVA (*) For a complete description of the research themes proposed check: Admission – Drim – Irim (i-rim.it)
Information on references	Candidates must choose no more than three recommenders to endorse their candidature. The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: https://forms.gle/TT4UwLqrjf88Cban6
Foreign Languages	English
Further Information	For more information about - the research themes please check the contact person indicated in the project themes description file available at: Admission – Drim – Irim (i-rim.it) - the doctorate rules and structure please check: RULES – Drim – Irim (i-rim.it) CURRICULA AND THEMES – Drim – Irim (i-rim.it) - for other enquiries contact the Doctorate Secretary: phd_drim@unige.it A step-by-step guideline for the application is available here: https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

[1] Information updated following communication of the course coordinator dated 14.06.2023
[2] Information updated following communication of the course coordinator dated 20.06.2023

Curriculum: ROBOTICS AND INTELLIGENT MACHINES – Italian national doctorate [1]*

Dottorato di "interesse nazionale" in convenzione con Università di PISA, Università degli Studi di NAPOLI Federico II, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Politecnico di MILANO, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Sapienza Università di ROMA, Università degli Studi della Campania "Luigi Vanvitelli", Università degli Studi di PALERMO, Politecnico di TORINO, Università Politecnica delle MARCHE, Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT), Consiglio Nazionale delle Ricerche (CNR) e Scuola Superiore Sant'Anna

Curriculum: MOBILITY AND AUTONOMOUS VEHICLES (CODE 9931)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded within D.M. 118/ Transizione digitale-ambientale dated 2.3.2023, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001610006) 　　　o research themes nr.: 1 e 2	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW **24 July 2023 at 9:00 am** More detailed information on the conduct of the interview will be sent via email to all candidates admitted to the interview [2] Candidates are ranked separately for each research theme they applied. **Step 1 – Assessment of qualifications** (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters. Candidates are admitted to Step 2 if their score is greater than or equal to 40 points. **Step 2 – Oral examination** (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview. The oral examination for each research theme is passed if the score is greater than or equal to 40 points. The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on how to present qualifications/publications	Candidates **must**: –　submit the **complete list of all the exams sat during their Bachelor's and Master's degree** and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator); –　specify **up to three research themes** of their interest (see the research themes listed below and at Admission – Drim – Irim (i-rim.it)); –　submit **a motivation letter** (Research project) related to one (or more) of the research themes selected; use the template available at: Admission – Drim – Irim (i-rim.it) ; –　submit a **Curriculum Vitae** including all the technical scientific studies/activities already done and pertinent to the doctoral program; –　submit **up to 3 recommendation letters** from university professors or recognized experts in the field supporting the candidate;
Research Themes	1. DESIGN OF EMBEDDED SYSTEMS FOR ROBOTICS - UNIVERSITA' DELLA CALABRIA (DIMES) 2. CONTROL OF AGILE MOTIONS IN LEGGED ROBOTS – SAPIENZA

	UNIVERSITÀ DI ROMA (DIAG) For a complete description of the research themes proposed check: Admission – Drim – Irim (i-rim.it)
Information on references	Candidates must choose no more than three recommenders to endorse their candidature. The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: https://forms.gle/TT4UwLqrjf88Cban6
Foreign Languages	English
Further Information	For more information about - the research themes please check the contact person indicated in the project themes description file available at: Admission – Drim – Irim (i-rim.it) - the doctorate rules and structure please check: RULES – Drim – Irim (i-rim.it) CURRICULA AND THEMES – Drim – Irim (i-rim.it) - for other enquiries contact the Doctorate Secretary: phd_drim@unige.it A step-by-step guideline for the application is available here: https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf

[1] Information updated following communication of the course coordinator dated 14.06.2023
[2] Information updated following communication of the course coordinator dated 21.06.2023

Course: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: NAVAL AND NAUTICAL DESIGN (CODE 9932)

Course Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	21/07/2023 10AM Room "Paolo Marchi" Dipartimento Architettura e Design (DAD) - aula Vallega - Stradone Sant'Agostino 37 - Genova
Research Themes	• Industrialization of the nautical product • Sustainability of the nautical product • Enhancement of the existing nautical heritage
Information on references	Applicants should choose no fewer than one and no more than three referees to support the application The referees must be university professors or experts in the subject. Referees shall directly send endorsement letters, within the deadline of the notice, to the following address e-mail: zignego@arch.unige.it and mariaelisabetta.ruggiero@unige.it In the application form, candidates must indicate the name, position and place of service of the references they have chosen.
Foreign Languages	English

Course: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: ENGINEERING FOR MARINE AND COASTAL ENVIRONMENTS (CODE 9933)

Course Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	21 July at 9:00 a.m. Interviews will be held remotly via Teams
Further information on how to present qualifications/publications	The curriculum must be completed by a document from the university that issued the degree (transcript of records) attesting to the courses and grades obtained throughout the candidate's university education (BSc and MSc). The presentation of international language certifications (TOEFL, CPE, CAE, FCE, ...) attached to the curriculum is preferential. Candidates not yet in possession, at the deadline of the announcement, of the title that allows access to the PhD may submit additional documentation, which they deem more appropriate, in order to document their academic career.
Exam Syllabus	The interview, in English, consists of an in-depth scientific discussion on the research project, on the Curriculum and on the titles presented by the candidate, and is also aimed at verifying that the candidate has adequate knowledge to deal profitably with the studies in the chosen curriculum.
Research Themes	The topics are those addressed in the curriculum "Engineering for Marine and Coastal Environments" described in detail in the course web page: http://dottorato.dicca.unige.it/eng/emaces and a list of possible projects can be found at http://dottorato.dicca.unige.it/eng/index.html The research project, of maximum 10 pages, should highlight the motivations and research interests of the candidate and contain a summary, a state of the art completed by the relevant publications, and the objectives of the activity.
Information on references	Applicants should choose no fewer than one and no more than three referees to support the application. One of the referees must be a faculty member of the curriculum committee (http://dottorato.dicca.unige.it/eng/info/staff/comitatoemaces.html) with whom the research project has been agreed upon. It will be the responsibility of the referees to send the letters of reference, within the deadline of the call, to the secretariat of the PhD dottorato.dicca@unige.it and the coordinator of the curriculum giovanni.besio@unige.it In the application form, candidates must indicate the name, position and place of service of the references they have chosen. Letters of reference that are not submitted as required will not be considered.
Foreign Languages	English
Further Information	http://dottorato.dicca.unige.it/eng/emaces/ Giovanni Besio giovanni.besio@unige.it

Course: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: NAVAL ARCHITECTURE AND MARINE ENGINEERING - MARINE TECHNOLOGIES (CODE 9934)

Course Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 5 – **Grants**: 5 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 117 dated 2.3.2023 (co-funded by Fincantieri Spa), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001700008) (*) 2 grants funded within PNRR – CN MOST project; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22000940007)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	19.07.2023–ore 2:30 PM at Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Polo Navale, via Montallegro 1, Genova The interview can take place on request also electronically (video conference via MS Teams) by contacting Prof. Cesare M. Rizzo at least one week before the interview date by e-mail (cesare.rizzo@unige.it)
Further information on how to present qualifications/publications	Applicants will: 1) submit a research project (maximum 10 pages A4 format); 2) an updated CV; Italian candidates not yet graduated must present the list with a score of the exams taken in the master degree.
Exam Syllabus	The interview will focus on the topics of the proposed research project and on related issues.
Research Themes	The research topics concern the conception, design, construction and operation of ships and offshore units, surface and underwater, both conventional and non-conventional, with particular reference to the process of synthesis and integration of the various aspects involved and generally through a multidisciplinary approach. The list of proposed topics is available at: https://mare.unige.it/sites/mare.unige.it/files/2023-06/PhD_Lista2023_STM_temi%20di%20ricerca.pdf [1] - Topic of the PhD grant funded by Fincantieri through D.M. 117 del 02.03.2023: Fatigue analysis of floating platforms for offshore wind turbines in relations to aero-hydro-elastic- actions - Grant funded by (PNRR MOST - National Centre for Sustainable Mobility): Development of optimization-based design methodologies for the hydro-acoustic design of non-conventional marine propulsors - Grant funded by (PNRR MOST - National Centre for Sustainable Mobility): Theoretical and numerical lightweight design approaches applying composite materials Further information may be requested via e-mail (cesare.rizzo@unige.it)
Information on references	Candidates must choose not less than one and not more than three referees to support their application. The referees must be university professors or experts in the subject. Referees shall directly send endorsement letters, within the deadline of the notice, to the following address e-mail: cesare.rizzo@unige.it In their application, candidates must indicate the name, qualification and place of employment of the chosen referees.
Foreign Languages	English

[1] Link updated following communication of the curriculum reference professor dated 12.06.2023

Course: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: NAVAL ARCHITECTURE AND MARINE ENGINEERING - MARINE TECHNOLOGIES (CODE 9935)

Course Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of FINCANTIERI Spa, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research projects: - Application of autonomous digital and robotic technologies to inspection and control of shipbuilding; - Decarbonization technologies for current and future navy ships	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	19.07.2023–ore 2:30 PM at Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Polo Navale, via Montallegro 1, Genova The interview can take place on request also electronically (video conference via MS Teams) by contacting Prof. Cesare M. Rizzo at least one week before the interview date by e-mail (cesare.rizzo@unige.it)
Further information on how to present qualifications/publications	Applicants will: 1) submit a research project (maximum 10 pages A4 format); 2) an updated CV; Italian candidates not yet graduated must present the list with a score of the exams taken in the master degree.
Exam Syllabus	The interview will focus on the topics of the proposed research project and on related issues.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): Research projects: - Application of autonomous digital and robotic technologies to inspection and control of shipbuilding; - Decarbonization technologies for current and future navy ships
Information on references	Candidates must choose not less than one and not more than three referees to support their application. The referees must be university professors or experts in the subject. Referees shall directly send endorsement letters, within the deadline of the notice, to the following address e-mail: cesare.rizzo@unige.it In their application, candidates must indicate the name, qualification and place of employment of the chosen referees.
Foreign Languages	English
Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 3

Course: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: LOGISTICS AND TRANSPORTATION (CODE 9936)

Course Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 8 – **Grants**: 8 (*)	

(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00

(*) 1 grant funded within D.M. 118 dated 2.3.2023 (Transizioni digitali e ambientali), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001560006)

(*) 1 grant funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001420006)

(*) 2 grants funded within D.M. 117 dated 2.3.2023 (co-funded by CIRCLE Spa), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001700008).

(*) 2 grants funded within PNRR – CN MOST project; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22000940007).

(*) 1 grant funded by ASPI; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	26th July, 2023 Interviews will start at 10 AM by remote via Teams
Further information on how to present qualifications/publications	Qualifications and publications must be attached to the application form.
Exam Syllabus	The interviews will assess the candidates' knowledge of the transport sector in its multidisciplinary aspects and their aptitude for scientific research as well as their understanding of the English language.
Research Themes	Grant no. 1: on one of the following research topics: 1. Competition and regulation in the transport sector; 2. States' intervention in transport and transport infrastructures as a tool to implement competitive, environmental and industrial policies; 3. Green strategies and green products; 4. Energy and environmental policies and strategies in shipping and ports; 5. Analysis and planning of rail transport systems; 6. Crisis management, social media marketing and sentiment analysis applied to the transport sector; 7. Optimization models and methods in the management of modal change nodes; 8. Management of transport systems in case of infrastructural damages; 9. Optimal use of transport infrastructure; 10. Dynamic programming models; 11. Shipbuilding Economics and Ship production markets; 12. Economic and Operational impact of new technologies on shipping markets; 13. Contractual models and practices in leisure shipbuilding: yacht building, repair and refit contracts; 14. Corporate and business strategies in the Blue Economy; 15. Analysis and planning of transport and logistics systems with the use of autonomous vehicles; 16. Application and use of ITS technologies for the management of transport and logistics systems; 17. Technological innovation and environmental nudges for an integrated and sustainable urban mobility; 18. Policy and actions to reduce emissions in the logistics and transport sector Grant no. 2 (ex DM 118 2.3.2023, "Digital and Environmental Trasitions"): Economic evaluation of the impacts of wind propulsion of ships Grant no. 3 (ex DM 118 2.3.2023, "Public Administration"): Implementation of strategic corporate mobility management policies Grant no. 4 (ex DM 117 2.3.2023 cofunded by Circle Spa): Mathematical optimisation methods and algorithms applied to the last-mile multimodal transport segment Grant no. 5 (ex DM 117 2.3.2023 cofunded by Circle Spa): Monitoring, Simulating, Predicting and Managing Goods Movements on Multimodal Networks Grant no. 6 (PNRR National Centre for Sustainable Mobility): Assessment of sustainability and acceptability conditions for boosting smart logistics: the role of multimodal transport infrastructures Grant no. 7 (PNRR National Centre for Sustainable Mobility): Strategies, investment options and

	green technologies for the shipping industry: evaluation criteria, KPI, Dashboards, Decision Management System
	Grant no. 8 (Funded by ASPI): Transport analyses, also using simulation models, within the Metropolitan City of Genoa, integrating different urban flows to identify integrated sustainable mobility solutions
Information on references	Letters of reference should be sent to: cieli@unige.it claudio.ferrari@unige.it
Foreign Languages	English

Course: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: FLUID MACHINES AND ENERGY SYSTEMS FOR MARITIME APPLICATIONS (CODE 9937)

Course Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	Applicants will: 1) submit a research project (maximum 10 pages A4 format); the research project, of maximum 10 pages, should highlight the motivations and research interests of the candidate and contain a summary, a state of the art completed by the relevant publications, and the objectives of the activity. 2) an updated CV; the curriculum must be completed by a document from the university that issued the degree (transcript of records) attesting to the courses and grades obtained throughout the candidate's university education (BSc and MSc). Candidates not yet in possession, at the deadline of the announcement, of the title that allows access to the PhD may submit additional documentation, which they deem more appropriate, to document their academic career.
Research Themes	• Low emission fluid machines and systems for energy production and convertion on-board and on-shore • Energy storage systems on-board • Clean fuels towards decarbonization • Renewable energy harvesting for maritime applications
Information on references	Applicants should choose no fewer than one and no more than three referees to support the application The referees must be university professors or experts in the subject. Referees shall directly send endorsement letters, within the deadline of the notice, to the following address e-mail: massardo@unige.it
Foreign Languages	English
Further Information	For further information please contact prof. Aristide Massardo (massardo@unige.it)

Course: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: FLUID MACHINES AND ENERGY SYSTEMS FOR MARITIME APPLICATIONS (CODE 9938)

Course Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of CETENA Spa, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: CFD CHT (Conjugate Heat Transfer) modelling for fluid-structure heat transfer in inhomogeneous flows in the naval field.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	20th July, 2023 Interviews will start at 9 AM by remote via Teams
Further information on how to present qualifications/publications	Applicants will: 1) submit a research project (maximum 10 pages A4 format); the research project, of maximum 10 pages, should highlight the motivations and research interests of the candidate and contain a summary, a state of the art completed by the relevant publications, and the objectives of the activity. 2) an updated CV; the curriculum must be completed by a document from the university that issued the degree (transcript of records) attesting to the courses and grades obtained throughout the candidate's university education (BSc and MSc). Candidates not yet in possession, at the deadline of the announcement, of the title that allows access to the PhD may submit additional documentation, which they deem more appropriate, to document their academic career.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): CFD CHT (Conjugate Heat Transfer) modelling for fluid-structure heat transfer in inhomogeneous flows in the naval field.
Information on references	Applicants should choose no fewer than one and no more than three referees to support the application The referees must be university professors or experts in the subject. Referees shall directly send endorsement letters, within the deadline of the notice, to the following address e-mail: massardo@unige.it
Foreign Languages	Engish
Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 3

Course: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: MARINE ECOSYSTEM SCIENCES (CODE 9939)

Course Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 5 – **Grants**: 5 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 117 dated 2.3.2023 (co-funded by ETT Spa), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001700008). (*) 2 grants cofunded by MUR/Department (DISTAV), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded within PNRR – NBCF project; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22000960007).	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25th July 2023 at 10.00 at the Department of Earth, Environmental and Life Sciences (DISTAV), Palazzo delle Scienze, Prof. Vezzulli's Office, 4th floor, Corso Europa 26, Genoa. The interview can take place only in person.
Exam Syllabus	Applicants must: 1) submit a research project (maximum 10 A4 pages). 2) an updated curriculum vitae; Italian applicants who have not yet graduated should submit the list with the grade of exams taken in the master's degree. The interview will focus on the discussion of the candidate's curriculum vitae and the submitted research project with particular reference to the relevance of the proposed research activities with the doctoral topics, the scientific content, innovativeness and feasibility of their implementation
Research Themes	Grant no. 1: Genomic and metagenomic characterization of Mediterranean Cnidarian holobionts Grant no. 2: Implementation and evaluation of the effectiveness of the implementation of Integrated Multitrophic Aquaculture facilities side by side with fish farming facilities Grant no. 3: High-resolution mapping, ecological status assessment, and restoration interventions of marine phanerogams in the North-western Mediterranean Sea Grant no. 4 (PNRR-NBFC): Application of metagenomic and cultural methods for the study of fungal biodiversity in the marine environment Grant no. 5 (ex DM 117): Towards FAIR tools for LTER research in marine ecosystem (Arctic and Antarctic) Non-priority research topics may also concern basic and applied aspects relevant for the study and conservation of marine biodiversity, the protection and enhancement of coastal and oceanic ecosystems, the management and mitigation of coastal risk and environmental monitoring, development and application. Marine biotechnology, analysis and control of risks to the health of marine ecosystems (also in relation to human health) and the sustainable exploitation of marine ecosystem resources and services.
Information on references	Candidates must choose not less than one and not more than three referees to support their application. The referees must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the call, to the following e-mail address: luigi.vezzulli@unige.it. In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons they have chosen.
Foreign Languages	English
Further Information	Contact Prof. Luigi Vezzulli, e-mail: luigi.vezzulli@unige.it

Course: SCIENCES AND TECHNOLOGIES OF CHEMISTRY AND MATERIALS
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: DRUG DISCOVERY AND NANOBIOTECHNOLOGIES (CODE 9940)

Course Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 3 – **Grants**: 3 (*)	
(*) 3 grants funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	24.7.2023 – 10:00 AM, at Istituto Italiano di Tecnologia, via Morego 30, 16163, Genova. The interview may take place electronically (Skype, Teams, etc.), for justified reasons. For the purpose of identification, the candidate has to show the original identity card (the same provided in the application). The justified request for videoconferencing must be sent no later than 18.7.2023 by e-mail to phd_d3@iit.it (subject: PhD_interview)
Further information on how to present qualifications/publications	Evaluable qualifications: • educational qualifications with marks; • transcript of records (list of exams with marks); • recommendation letters (maximum three); • research project written in English; • curriculum vitae et studiorum; • additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards). All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams. Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University. In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.
Exam Syllabus	The candidate will discuss in English the research project he/she has presented. The Committee will evaluate the research project for its originality, feasibility, methodology, timeline and relevance within the research topics listed in the call. In this way, the Committee will be able to evaluate the candidate's attitude to develop a scientific project. The interview will allow the Committee to ascertain the candidates knowledge of English language.
Research Themes	1. Nanoparticle-based colorimetric biosensors. 2. Biological application of nanozymes. 3. Exploring new nanozyme functionalities and applications.
Information on references	Candidates must provide not less than one and not more than three recommendation letters to support their application. The referees are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by e-mail to phd_d3@iit.it (subject: PhD_letter). The name, status and place of employment of the referees of the recommendation letters must be stated in the application.
Foreign Languages	English
Further Information	Dr. Pier Paolo Pompa pierpaolo.pompa@iit.it Administrative contact person Dr. Ilaria Rapone (+39) 0102896772 ilaria.rapone@iit.it Further information on the research themes: https://chimica.unige.it/en/doctorate-themes

Course: SCIENCES AND TECHNOLOGIES OF CHEMISTRY AND MATERIALS

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: NANOCHEMISTRY (CODE 9941)

Course Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 6 – **Grants**: 6 (*)	
(*) 6 grants funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	Evaluable qualifications: • educational qualifications with marks; • transcript of records (list of exams with marks); • recommendation letters (maximum three); • research project written in English; • curriculum vitae et studiorum; • additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards). All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams. The provision of the title and a short M.Sc. thesis abstract is recommended. Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University. In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.
Research Themes	1. Development of colloidal nanocrystals for energy related applications (3 grants). 2. Synthesis and characterization of organic materials based on Sulfur (II)-containing polymers, and their biological anti-oxidant performance. 3. Development and preparation of colloidal nanocrystals with chiroptical activity. 4. Physical chemical interactions of magnetic based nanomaterials with immune cells.
Information on references	Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by e-mail to phd_nach@iit.it (subject: PhD_letter). The name, status and place of employment of the authors of the recommendation letters must be stated in the application.
Foreign Languages	English
Further Information	Administrative contact person Dr. Iulia Manolache Tel: (+39) 0102896718 iulia.manolache@iit.it Further information on the research themes: https://chimica.unige.it/en/doctorate-themes

Course: SCIENCES AND TECHNOLOGIES OF CHEMISTRY AND MATERIALS
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: SCIENCE AND TECHNOLOGY OF MATERIALS (CODE 9942)

Course Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 3 – **Grants**: 3 (*)	
(*) 3 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	24.7.2023 – 9:00 AM, at Department of Physics (Dipartimento di Fisica – DIFI), via Dodecaneso 33, 16146, Genova. The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the purpose of identification, the candidate has to show the original document (the same provided in the application). The justified request for videoconferencing must be sent no later than 17.7.2023 by e-mail to relini@fisica.unige.it (subject: PhD_interview).
Further information on how to present qualifications/publications	Evaluable qualifications: • educational qualifications with marks; • transcript of records (list of exams with marks); • recommendation letters (maximum three); • research project written in Italian or English; • curriculum vitae et studiorum; • additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards). All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams. Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University. In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.
Exam Syllabus	The candidate will discuss with the Committee the research project he/she has presented. The Committee will evaluate the research project for its originality, feasibility, methodology, timeline and relevance within the research topics listed in the call. In this way the Committee will be able to evaluate the candidates attitude to develop a scientific project. During the presentation the Committee will ascertain the candidate knowledge of English language.
Research Themes	Experimental investigation and modelling of metallic, ceramic, polymeric, composite, biomolecular and biocompatible materials. Correlations between methods of production (synthesis, film deposition, crystal growth), structural, morphological, chemical-physical characteristics and functional properties will be studied. As regards the functional aspects, materials for photonics and plasmonics, high temperature superconductors, materials for hydrogen production and storage, heterogeneous catalyst materials, electronic and magnetic devices, protective coatings, biomaterials will be studied. Characterization will concern structural, electronic and morphologic properties of materials even in the form of thin and ultrathin films and multilayers, with regard to growth and nanostructuring mechanisms. Crystal-chemical, electrochemical, thermal, magnetic and transport properties, and the microscopic study of tribological processes will also be considered. The technological aspects of new industrial, environmental and metallurgical catalytic processes will be studied and developed. All the above-mentioned themes will be developed both in basic and applied research (industrial processes, sensors, devices, conservation of cultural heritage etc.).
Information on references	Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by e-mail to relini@fisica.unige.it (subject: PhD_letter). The name, status and place of employment of the authors of the recommendation letters must be stated in the application.
Foreign Languages	English

Further Information	Prof. Annalisa Relini (+39) 0103356427 relini@fisica.unige.it Administrative contact person Ms. Noemi Pretelli (+39) 0103358752 dottorato_STCM@unige.it

Course: SCIENCES AND TECHNOLOGIES OF CHEMISTRY AND MATERIALS
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: SCIENCE AND TECHNOLOGY OF MATERIALS (CODE 9943)

Course Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Angelini S.p.a., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Synthesis and electrochemical production process of sodium hypochlorite: investigation and optimization of key process parameters.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidates research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	27.7.2023 – 9:00 AM, at Dipartimento di Chimica e Chimica Industriale (DCCI), via Dodecaneso 31, 16146 Genova. The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the purpose of identification, the candidate has to show the original document (the same provided in the application). The justified request for videoconferencing must be sent no later than 24.7.2023 by e-mail to antonio.comite@unige.it (subject: PhD_interview)
Further information on how to present qualifications/publications	Evaluable qualifications: • educational qualifications with marks; • transcript of records (list of exams with marks); • recommendation letters (maximum three); research project written in Italian or English; • curriculum vitae et studiorum; • additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards). All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams. Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University. In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.
Exam Syllabus	The candidate will discuss with the Committee the research project he/she has presented. The Committee will evaluate the research project for its originality, feasibility, methodology, timeline and relevance within the research topics listed in the call. In this way the Committee will be able to evaluate the candidates attitude to develop a scientific project. During the presentation the Committee will ascertain the candidate knowledge of English language.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): Synthesis and electrochemical production process of sodium hypochlorite: investigation and optimization of key process parameters.
Information on references	Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by e-mail to antonio.comite@unige.it (subject: PhD_letter). The name, status and place of employment of the authors of the recommendation letters must be stated in the applicat
Foreign Languages	English

Further Information	Prof. Antonio Comite (+39) 0103358746 antonio.comite@unige.it Administrative contact person Ms. Noemi Pretelli (+39) 0103358752 dottorato_STCM@unige.it Further information on the research theme: https://chimica.unige.it/en/doctorate-themes Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

Course: SCIENCES AND TECHNOLOGIES OF CHEMISTRY AND MATERIALS
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: CHEMICAL SCIENCES AND TECNOLOGIES (CODE 9944)

Course Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 12 – **Grants**: 12 (*) [1]	
(*) 5 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 2 grants cofunded by MUR/Department (DCCI), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 [1] (*) 3 grants funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001430006). (*) 2 grants funded within D.M. 118 dated 2.3.2023 (Patrimonio culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001430006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	27.7.2023 – 9:00 AM, at Dipartimento di Chimica e Chimica Industriale (DCCI), via Dodecaneso 31, 16146 Genova. The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the purpose of identification, the candidate has to show the original document (the same provided in the application). The justified request for videoconferencing must be sent no later than 23.7.2023 by e-mail to grotti@unige.it (subject: PhD_interview)
Further information on how to present qualifications/publications	Evaluable qualifications: • educational qualifications with marks; • transcript of records (list of exams with marks); • recommendation letters (maximum three); research project written in Italian or English; • curriculum vitae et studiorum; • additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards). All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams. Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University. In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.
Exam Syllabus	The candidate will discuss with the Committee the research project he/she has presented. The Committee will evaluate the research project for its originality, feasibility, methodology, timeline and relevance within the research topics listed in the call. In this way the Committee will be able to evaluate the candidates attitude to develop a scientific project. During the presentation the Committee will ascertain the candidate knowledge of English language.
Research Themes	1. Chemistry and physical chemistry of photoactive materials. 2. Nanoparticles for technological applications. 3. Synthesis and study of the crystal-chemical, thermal, magnetic and transport properties of oxides, nitrides and carbides. 4. Determination of chemical species of environmental and oceanographic interest. 5. Development of innovative chromatographic methodologies coupled to mass spectrometry. 6. Analytical chemistry of trace elements. 7. Chemistry of the polar environments. 8. Diversity-oriented synthesis of biologically active compounds or with applications as functional materials by chemical methodologies with the aid of catalytic methods (photocatalysis, organocatalysis, organometallic catalysis) or chemoenzymatic procedures. 9. Chemoenzymatic synthesis of macromolecules starting from bio-based monomers using interdisciplinary methods based on the green chemistry principles combined with biotechnology. 10. Synthesis and reactivity of heterocyclic compounds.

	11. Phase equilibria and thermodynamics of metallic materials: experimental and theoretical aspects.
	12. Intermetallic compounds: synthesis, structure, properties and technological applications.
	13. Advanced metallic materials.
	14. Inorganic materials (metallic and refractory) for renewable energies.
	15. Polymeric, hybrid and nanocomposite materials.
	16. Polymer nanostructures for photonics.
	17. Membranes and membrane processes.
	18. Sustainable design of new permanent magnets (research theme for grant funded within D.M. 118 dated 2.3.2023 - Azione Dottorati di ricerca PNRR).
	19. Synthesis and characterization of magnetic nanocomposites (research theme for grant funded within D.M. 118 dated 2.3.2023 - Azione Dottorati di ricerca PNRR).
	20. Synthesis of high value organic molecules from renewable lignocellulosic resources through innovative synthetic methodologies (research theme for grant funded within D.M. 118 dated 2.3.2023 - Azione Dottorati di ricerca PNRR).
	21. Metallurgical investigations on the production and reproduction of objects in copper alloys that replicate the findings from various eras belonging to the Samnite Museum of Campobasso (research theme for grant funded within D.M. 118 dated 2.3.2023 - Azione Dottorati per il patrimonio culturale).
	22. The etruscan and roman bronzes of San Casciano dei Bagni, study of the alloys, the patinas of alteration and the impact of the post-excavation deposition and conservation environment (research theme for grant funded within D.M. 118 dated 2.3.2023 - Azione Dottorati per il patrimonio culturale).
Information on references	Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by e-mail to grotti@unige.it (subject: PhD_letter). The name, status and place of employment of the authors of the recommendation letters must be stated in the application.
Foreign Languages	English
Further Information	Prof. Marco Grotti (+39) 0103358708 grotti@unige.it Administrative contact person Ms. Noemi Pretelli (+39) 0103358752 dottorato_STCM@unige.it Further information on the research themes DM 118: https://chimica.unige.it/en/doctorate-themes

[1] 1 position with grant added following the minutes of DICCI Council dated 13.06.2023

Course: SCIENCES AND TECHNOLOGIES OF CHEMISTRY AND MATERIALS
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: CHEMICAL SCIENCES AND TECNOLOGIES (CODE 9945)

Course Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 2 – **Grants**: 2 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Exacto S.p.a., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Treatment of end-of-life wind turbine blades for the recycling of glass fibers.	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Italiana Coke S.r.l., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Circular economy for the sustainable closure of the waste cycle: use of secondary solids fuels for syngas production.	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidates research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	27.7.2023 – 9:00 AM, at Dipartimento di Chimica e Chimica Industriale (DCCI), via Dodecaneso 31, 16146 Genova. The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the purpose of identification, the candidate has to show the original document (the same provided in the application). The justified request for videoconferencing must be sent no later than 24.7.2023 by e-mail to antonio.comite@unige.it (subject: PhD_interview)
Further information on how to present qualifications/publications	Evaluable qualifications: • educational qualifications with marks; • transcript of records (list of exams with marks); • recommendation letters (maximum three); research project written in Italian or English; • curriculum vitae et studiorum; • additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards). All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams. Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University. In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.
Exam Syllabus	The candidate will discuss with the Committee the research project he/she has presented. The Committee will evaluate the research project for its originality, feasibility, methodology, timeline and relevance within the research topics listed in the call. In this way the Committee will be able to evaluate the candidates attitude to develop a scientific project. During the presentation the Committee will ascertain the candidate knowledge of English language.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): 1. Treatment of end-of-life wind turbine blades for the recycling of glass fibers. 2. Circular economy for the sustainable closure of the waste cycle: use of secondary solids fuels for syngas production.
Information on references	Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by e-mail to antonio.comite@unige.it (subject: PhD_letter). The name, status and place of employment of the authors of the recommendation letters must be

	stated in the applicat
Foreign Languages	English
Further Information	Prof. Antonio Comite (+39) 0103358746 antonio.comite@unige.it Administrative contact person Ms. Noemi Pretelli (+39) 0103358752 dottorato_STCM@unige.it Further information on the research themes: https://chimica.unige.it/en/doctorate-themes Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0 for both grants

Course: SCIENCES AND TECHNOLOGIES OF CHEMISTRY AND MATERIALS
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: PHARMACEUTICAL, FOOD AND COSMETIC SCIENCES (CODE 9946)

Course Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 3 – **Grants**: 3 (*)	
(*) 3 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	21.7.2023 – 9:00 AM, at Dipartimento di Farmacia (DIFAR, locali ex-DICTFA), viale Cembrano 4, 16148 Genova. The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the purpose of identification, the candidate has to show the original document (the same provided in the application). The justified request for videoconferencing must be sent no later than 17.7.2023 by e-mail to: francesca.musumeci@unige.it (subject: PhD_interview)
Further information on how to present qualifications/publications	Evaluable qualifications: • educational qualifications with marks; • transcript of records (list of exams with marks); • recommendation letters (maximum three); • research project written in Italian or English; • curriculum vitae et studiorum; • additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards). All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams. Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University. In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.
Exam Syllabus	The candidate will discuss with the Committee the research project he/she has presented. The Committee will evaluate the research project for its originality, feasibility, methodology, timeline and relevance within the research topics listed in the call. In this way the Committee will be able to evaluate the candidates attitude to develop a scientific project. During the presentation the Committee will ascertain the candidate knowledge of English language.
Research Themes	1. Rational design and synthesis of biologically active compounds with potential interest as antineoplastics, antivirals, antimicrobials, CFTR modulators, and for the treatment of CNS and peripheral system diseases; modulators for the therapy of cystic fibrosis, anti diabetic agents, tracers for therapeutic or imaging applications. 2. Advanced computational methods applied to drug-target interaction study. 3. Characterization and valorization of food, dietetic products and food supplements. Extraction, development and formulation of new food ingredients and/or foods. 4. Design and synthesis of pharmacologically active cationic nanomaterials and/or capable of solubilizing natural or synthetic insoluble therapeutics for drug delivery and applications in nanomedicine as antibacterial and/or antitumor devices. 5. Design and development of micro- and nanodispersed systems or bioadhesive matrixes for drug delivery. 6. Spectroscopic and hyperspectral-imaging methods for food and environmental applications. Development and application of chemometric methods of multivariate analysis and experimental design. 7. Extraction and spectroscopic characterization of biologically active phytochemicals from aromatic and medicinal plants, as well as from biomass from agricultural waste and of the market of ornamental plants of territorial interest. 8. Trace metals and human health (environment, food, drugs). 9. Application of microwave technology and solvent free reactions in organic and inorganic syntheses, in extractive procedures according to the targets of green chemistry and green extractions for the preparation of bioactive cosmetic and pharmaceutical compounds. A particular focus is the exploitation of botanical matrices especially from agrofood byproducts.

	10. Preparation, characterization and development of pharmaceutical and galenic dosage forms.
	11. Delivery systems for tracers to be applied for therapeutic or imaging applications.
Information on references	Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by e-mail to francesca.musumeci@unige.it (subject: PhD_letter). The name, status and place of employment of the authors of the recommendation letters must be stated in the application.
Foreign Languages	English
Further Information	Prof. Francesca Musumeci (+39) 010 3538866 francesca.musumeci@unige.it Administrative contact person Ms. Noemi Pretelli (+39) 0103358752 dottorato_STCM@unige.it

Course: SCIENCE AND TECHNOLOGY FOR THE ENVIRONMENT AND TERRITORY (STET)

Curriculum: BIOLOGY APPLIED TO AGRICULTURE AND TO THE ENVIRONMENT (CODE 9947)

Course Coordinator: Scambelluri Marco	
Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita – DISTAV)	
Places: 5 – **Grants**: 5 (*)	
(*) 2 grants funded by University of Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded by MUR/DISTAV, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001430006) (*) 1 grant funded by DISTAV, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	20.07.2023 at 9.30 (CET) in IT mode by contacting the curriculum manager in advance
Further information on how to present qualifications/publications	Qualifications are all information contained in the application and in the documents attached to it. The application must include: a) the curriculum vitae et studiorum of the PhD candidate (maximum ten pages). b) a detailed research project concerning one of the Doctorate Research themes published in the official call for the XXXIX Doctorate Cycle in Science and Technology for the Environment and the Territory of the Genova University (maximum ten pages). c) a document containing the title and a brief description of the Master thesis, together with the list of exams and their marks. d) the titles documenting the qualifications acquired by the PhD candidate during his/her career that are relevant to the research project submitted and to the Doctorate Course (maximum ten pages). e) minimum one, up to three reference letters. In the application form candidates must indicate the names, qualification and Institution of referents writing the support letters. PhD candidates can apply in English and Italian.
Exam Syllabus	The interview will deal with: 1- the knowledge of biological themes and processes. The topics covered during the discussion are both of general interest, as well as specific to the proposed research. 2- the activity carried out by the PhD candidates during their course of study and during the Master's degree thesis, their level of knowledge of the related topics and of the analytical and experimental methodologies related to the Master Thesis and to research topic of the project presented. 3- the research topic that the candidate aims at developing during the PhD. 4 - the knowledge of the English language.
Research Themes	The candidate must choose one of the following proposed themes. Projects on topics other than those listed below will be evaluated with zero points. 1) Characterization and valorisation of products, by-products, and bioactive compounds from the agri-food chain (University grant) 2) Biology and ecology of invasive alien species: *Scyphophorus acupunctatus* and *Xylosandrus compactus* (MUR/DISTAV grant) 3) Urban green and Nature-based Solution for particulate matter mitigation (DM 118 grant) 4) Presence of Antibiotic resistance indicators in the environment (DISTAV grant) 5) Determination of the efficacy and safety of active principles derived from sea side-streams (University grant) 6) Contribution to the knowledge and enhancement of biodiversity in urban areas: the soil fauna in public green areas and in historic city parks (University grant)

Information on references	In accordance with article 3 paragraph 3 of the call, the candidate must choose minimum one, up to three referents supporting their PhD application. In their application forms, the PhD candidates must indicate the name, qualification and Institution of each referent. Referents must be University professors and researchers, or well-known experts in the subject. Referents must send their letters in "pdf" format, within the deadline for submitting the application to Prof. Mauro Mariotti (m.mariotti@unige.it, the responsible for the Doctorate curriculum).
Foreign Languages	The research project can be written in Italian, English or French, but knowledge of the English language is required
Further Information	Further information is available on the PhD website (http://www.distav.unige.it/phdstat/it) or can be requested from: • Prof. Laura Cornara (laura.cornara@unige.it) for theme 1 • Prof. Mauro Mariotti (m.mariotti@unige.it) for theme 2 • Prof. Enrica Roccotiello (Enrica.Roccotiello@unige.it) for theme 3 • Prof. Elena Grasselli (elena.grasselli@unige.it) for theme 4 and 5 • Proff. Stefano Vanin (Stefano.vanin@unige.it) or Loris Galli (loris.galli@unige.it) fort theme 6

Course: SCIENCE AND TECHNOLOGY FOR THE ENVIRONMENT AND TERRITORY (STET)

Curriculum: EARTH SCIENCES (9948)

Course Coordinator: Scambelluri Marco	
Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita – DISTAV)	
Places: 4 – **Grants**: 4 (*)	
(*) 2 grants funded by the University of Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00; (*) 1 grant funded within the D.M. 118 issued the 02.03.2023 (addressed on Cultural Heritage), under condition to the approval of Ministerial funding. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001440006); (*) 1 grant finded within the frame of the PNRR PE3 RETURN Partnership. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	22/07/2023 at 10,00 (CET) in presence. Candidates can also participate online (platforms Teams or Skype) by contacting in advance Prof. Marco Scambelluri Dipartimento di Scienze della Terra dell'Ambiente e della Vita (DISTAV) (+39) 0103538307 <u>marco.scambelluri@unige.it</u>
Further information on how to present qualifications/publications	By titles are meant all information contained in the application form and in the documents attached to it. The application must be accompanied by: a) the candidate's curriculum vitae et studiorum (maximum ten pages), with indication of the degree mark. b) a research project relating to one of the research topics published in the call for the XXXIX cycle of the Doctorate in Sciences and Technologies for the Earth and the Environment of the University of Genoa (Earth Sciences curriculum; maximum ten pages). c) a document containing the title and an abstract of the Master' s degree thesis, together with the list of exams taken and their marks. d) any additional documented qualification acquired during the candidate's career and relating to the proposed research project and to the research topics pertinent to the PhD Program (maximum ten pages). e) from minimum one to maximum three reference letters. In the application form candidates must indicate the names, qualification and Institution of referents writing the support letters. Candidates can write their project and application forms either in Italian or in English
Exam Syllabus	The interview will deal with: 1. the general knowledge of geological themes, processes and topics of general interest and of specific interest to the proposed research. 2. an in-depth discussion of the activity carried out by the PhD candidate during his/her studies and during the master degree thesis. The interview will also test the candidate's knowledge of basic topics, of analytical and work tools and of the experimental methodologies pertinent to the research topic dealt with in the project presented. 3. the specific research topic that the candidate aims to develop during the research doctorate. 4. an evaluation of the candidate's knowledge of the English language.
Research Themes	The following list reports the titles of research topics on which the STAT Doctorate fellowships (XXXIX Cycle, Earth Sciences curriculum), are addressed. More detailed information on the research topics is available on the STAT PhD website (<u>http://www.distav.unige.it/phdstat/it</u> - Research topics). Candidates must choose only one of the 7 research topics listed below: projects on different topics are evaluated with zero points 1) Timing, facies and (bio)diversity of the shallow marine deposits of the Oligocene transgression in Liguria and southern Piedmont: coupling biostratigraphic data and high resolution palaeoenvironmental reconstructions (University grant). 2) Geophysical and paleomagnetic model of the evolution and growing rates of Brothers submarine volcano in the Kermadec Arc from IODP Expedition 376 data (University grant).

	3) Records of seismic cycles in high pressure exhumed oceanic units: structural characterization (University grant).
	4) Eclogitization of the oceanic lithosphere by hydration of brittle structures (University grant).
	5) Geogenic Radioactivity for Predicting Ionizing Radiation Hazard and Indoor Radon (University grant).
	6) Experimental study of natural cobalt blue pigments (D.M. 118 grant).
	7) Slope stability analysis under a changing climate (PNRR PE3 Parthership program RETURN grant).
Information on references	In accordance with article 3 paragraph 3 of the call, the candidate must choose minimum one, up to three referents supporting their PhD application. In their application forms, the PhD candidates must indicate the name, qualification and Institution of each referent. Referents must be University professors and researchers, or well-known experts in the subject. Referents must send their letters in "pdf" format, within the deadline for submitting the application to Prof. Prof. Marco Scambelluri (marco.scambelluri@unige.it, the responsible for the Doctorate curriculum).
Foreign Languages	English
Further Information	Further information is available on the doctorate website (http://www.distav.unige.it/phdstat/it) and can be requested to • Prof. Marco Scambelluri (marco.scambelluri@unige.it), coordinator; • Prof. Antonino Briguglio (antonino.briguglio@unige.it), theme 1; • Prof. Fabio Caratori Tontini (fabio.caratori.tontini@unige.it), theme 2; • Prof.ssa Laura Federico (laura.federico@unige.it), theme 3; • Prof. Marco Marco Scambelluri (marco.scambelluri@unige.it), theme 4; • Prof. Massimo Verdoya (massimo.verdoya@unige.it), theme 5; • Prof.ssa Laura Gaggero (laura.gaggero@unige.it), theme 6; • Prof. Giacomo Pepe (Giacomo.Pepe@unige.it), theme 7

Course: SCIENCE AND TECHNOLOGY FOR ELECTRICAL ENGINEERING, COMPLEX SYSTEMS FOR MOBILITY

Curriculum: ELECTRICAL ENGINEERING (CODE 9949)

Course Coordinator: Marchesoni Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: 9 (°) – **Grants**: 7 (*)	
(*) 3 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(*) 1 grant cofunded by MUR/Department (DITEN), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(*) 2 grants funded within D.M. 118 dated 2.3.2023 (ambito: Transizioni digitali e ambientali), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001580006)	
(*) 1 grant funded within D.M. 118 dated 2.3.2023 (ambito: Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001450006)	
(°) 1 position reserved for Eurocontrol S.p.A. employees	
(°) 1 position reserved for aizoOn s.r.l. employees	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	26 July 2023 9.30 am Telematic mode (Skype or similar software) by contacting Prof. Andrea Formentini, e-mail andrea.formentini@unige.it, within the day before the interview
Further information on how to present qualifications/publications	Applicants will have to submit: 1) a research project up to 10 pages long; 2) an updated CV; 3) a short abstract of the master's thesis, if available. Candidates who have not yet graduated must present the list and the marks of the exams passed in the master's degree program up to the moment of submission of the application.
Exam Syllabus	Interview on the submitted research project, the PhD course topics, and the candidate's specific interests in the field. English language test.
Research Themes	(A) Automation: industry, process and transport. Manufacturing plants modeling. Management, monitoring and control of electrical systems. Innovative techniques and optimization for electromagnetic device design. Electric drives for robotics, manufacturing automation and processes. Advanced instrumentation and fieldbus applications. (B) Energy: Protection from electrostatic hazard. Insulation defects evaluation with partial discharge measurement. Technical-economic evaluations for the energy market. Distributed generation. Quality of service. Optimization algorithms, distribution management systems, load forecasts and renewable energy resources, with methods based on artificial intelligence, data mining, big data and probabilistic safety assessment. Switches, machines, electric actuators and magnetic devices for energy storage. Static energy converters. (C) Electronics: Modeling of power electronic systems and components. Advanced control techniques for converters. Electrostatic discharge protection systems for electronic devices. Complex systems modeling. Analysis and synthesis of circuits and nonlinear dynamic systems. Neural networks. Electronic systems design. (D) Electromagnetic compatibility among electrical, power electronic and communications systems. Modeling, simulation and measurement methods. Lightning current numerical modeling. Electromagnetic modeling with full Maxwell approach. (E) Transport: Modeling for RAMS predictive analysis. Electrified systems for public transport. Energy management of electric and hybrid vehicles. Electric traction motor diagnostics. Electric drives for rail traction, road and ship propulsion. (F) Environment: Numerical simulation and measurement and field reduction techniques. Optimized design of low emission devices. Low environmental impact systems.
Information on references	Candidates must choose not less than one and not more than three referees to support the application. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to Prof. Andrea Formentini at the following address: andrea.formentini@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English

Further Information	Prof. Mario Marchesoni University of Genova DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture) Via all'Opera Pia 11a, I-16145 - Genova, Italy mario.marchesoni@unige.it tel: +39 0103532183; fax: +39 0103532700; Laura Brunelli University of Genova DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture) Via all'Opera Pia 11a, I-16145 - Genova, Italy brunelli@dinav.unige.it tel: +39 0103532286; fax: + 39 0103532777

Course: SCIENCE AND TECHNOLOGY FOR ELECTRICAL ENGINEERING, COMPLEX SYSTEMS FOR MOBILITY

Curriculum: COMPLEX SYSTEMS FOR MOBILITY (CODE 9950)

Course Coordinator: Marchesoni Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within PNRR - PNRR project – Centro Nazionale per la Mobilità Sostenibile (CNMS) – CN00000023 (Missione 4 Componente 2 Investimento 1.4 "Potenziamento strutture di ricerca e creazione di "campioni nazionali di R&S" su alcune Key Enabling Technologies" finanziato dall'Unione europea - NextGenerationEU"); the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22000940007)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	27 July 2023 9.30 am Telematic mode (Skype or similar software) by contacting Prof. Federico Silvestro, e-mail federico.silvestro@unige.it, within the day before the interview.
Further information on how to present qualifications/publications	Applicants will have to submit: 1) a research project up to 10 pages long; 2) an updated CV; 3) a short abstract of the master's thesis, if available. Candidates who have not yet graduated must present the list and the marks of the exams passed in the master's degree program up to the moment of submission of the application.
Exam Syllabus	Interview on the submitted research project, the PhD course topics, and the candidate's specific interests in the field. English language test.
Research Themes	(A) Complex systems in electrical and naval engineering: electrical networks, naval systems, automation systems. (B) Intelligent mobility of people and goods: planning aspects (for example relating to local public transport, city logistics, etc.), simulation, of "intelligent" transport systems (infomobility, AVM, V2V, V2I communication, etc.), evaluation of the transport external costs. (C) Maritime and marine transport systems: systems to support navigation safety and development of technologies and planning systems to support European policies of "Integrated Coastal Zone Management" and "Maritime Spatial Planning". (D) Components and technological systems for means of transport that allow to reduce the external costs of transport and to raise safety levels: electric propulsion systems for road or rail electric and hybrid vehicles, management of the energy flows of such vehicles, modeling for predictive RAMS analysis, traffic management and control systems in constrained driving systems, electronics and electric traction drives. (E) Modeling of complex systems: formulation / identification of mathematical models (starting from experimental data) and their analysis and numerical simulation. The models will mainly refer to the electrical and naval sector, but they also may concern more general problems whose solution is of application interest for these sectors (for example, electrical activity of neuron networks or circuits).
Information on references	Candidates must choose not less than one and not more than three referees to support the application. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Complex Systems for Mobility Curriculum at the following address: federico.silvestro@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	Inglese

Further Information	Prof. Federico Silvestro University of Genova DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture) via all'Opera Pia, 11a, I-16145 - Genova, Italy E-mail: federico.silvestro@unige.it Tel: +39-010-353-2723; fax: +39-010-353-2700; Laura Brunelli University of Genova DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture) Via all'Opera Pia 11a, I-16145 - Genova, Italy brunelli@dinav.unige.it tel: +39 0103532286; fax: + 39 0103532777 tel: +39 0103532286; fax: + 39 0103532777

Course: SCIENCE AND TECHNOLOGY FOR ELECTRICAL ENGINEERING, COMPLEX SYSTEMS FOR MOBILITY

Curriculum: COMPLEX SYSTEMS FOR MOBILITY (CODE 9951)

Course Coordinator: Marchesoni Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: 3 – **Grants**: 3 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Fincantieri S.p.A., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243.	
Research project: Dynamic Load Modelling: Dynamic modeling of extra propulsive loads and system analysis of storage systems for analysis of pulsating loads on future naval vessels	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Fincantieri S.p.A., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243.	
Research project: Innovative Electric Grid Architecture: Dynamic modeling of innovative AC and DC electrical architectures, in low and medium voltage, of future naval vessels	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of CETENA S.p.A., under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243.	
Research project: Integrated Controls of Marine Electric Power Systems: Dynamic modeling of complex electrical systems and their optimal shipboard management and control systems	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	27 July 2023 9.30 am Telematic mode (Skype or similar software) by contacting Prof. Federico Silvestro, e-mail federico.silvestro@unige.it, within the day before the interview.
Further information on how to present qualifications/publications	Applicants will have to submit: 1) a research project up to 10 pages long, relating to one of the topics listed below in the "Research Themes"; 2) an updated CV; 3) a short abstract of the master's thesis, if available. Candidates who have not yet graduated must present the list and the marks of the exams
Exam Syllabus	Interview on the submitted research project, the PhD course topics, and the candidate's specific interests in the field. English language test.
Research Themes	Curriculum's Research Theme (A) Dynamic Load Modelling: Dynamic modeling of extra propulsive loads and system analysis of storage systems for analysis of pulsating loads on future naval vessels. (B) Innovative Electric Grid Architecture: Dynamic modeling of innovative AC and DC electrical architectures, in low and medium voltage, of future naval vessels (C) Integrated Controls of Marine Electric Power Systems: Dynamic modeling of complex electrical systems and their optimal shipboard management and control systems (D) Complex systems in electrical and naval engineering: electrical networks, naval systems, automation systems. (E) Components and technological systems for means of transport that allow to reduce the external costs of transport and to raise safety levels: electric propulsion systems for road or rail electric and hybrid vehicles, management of the energy flows of such vehicles, modeling for predictive RAMS analysis, traffic management and control systems in constrained driving systems, electronics and electric traction drives. (F) Modeling of complex systems: formulation / identification of mathematical models (starting from experimental data) and their analysis and numerical simulation. The models will mainly refer to the electrical and naval sector, but they also may concern more general problems whose solution is of application interest for these sectors (for example, electrical activity of neuron networks or circuits). Research themes of the grants funded within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO

	4.6 (OS-f):
	- Dynamic Load Modelling: Dynamic modeling of extra propulsive loads and system analysis of storage systems for analysis of pulsating loads on future naval vessels
	- Dynamic modeling of innovative AC and DC electrical architectures, in low and medium voltage, of future naval vessels
	- Integrated Controls of Marine Electric Power Systems: Dynamic modeling of complex electrical systems and their optimal shipboard management and control systems
Information on references	Candidates must choose not less than one and not more than three referees to support the application. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to Prof. Federico Silvestro at the following address: federico.silvestro@unige.it
	The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English
Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6)
	Months to be spent abroad: 3

Course: SCIENCE AND TECHNOLOGY FOR ELECTRONIC AND TELECOMMUNICATION ENGINEERING
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: ELECTROMAGNETISM, ELECTRONICS, TELECOMMUNICATIONS (CODE 9952)

Course Coordinator: Valle Maurizio	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: 13 – **Grants**: 13 (*)	
(*) 5 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
(*) 1 grant cofunded by MUR/Department (DITEN), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(*) 2 grants funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione, PA), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001460006)	
(*) 2 grants funded within D.M. 118 dated 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001460006)	
(*) 1 grant funded within D.M. 117 dated 2.3.2023 (co-funded by: FOS Spa), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001720008).	
(*) 1 grant funded within D.M. 117 dated 2.3.2023 (co-funded by: Engineering Ingegneria Informatica S.p.A.), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001720008).	
(*) 1 grant funded within PNRR –PNRR – Centro Nazionale per la Mobilità Sostenibile (CNMS) – CN00000023 (Missione 4 Componente 2 Investimento 1.4 "Potenziamento strutture di ricerca e creazione di "campioni nazionali di R&S" su alcune Key Enabling Technologies" finanziato dall'Unione europea - NextGenerationEU") project; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22000940007).	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25.07.2023 - 09.30 am CET at the Electrical, Electronics and Telecommunication Engineering and Naval Architecture Department (DITEN), University of Genova, Via Opera Pia 11A – 16145 Genova or alternatively by telematic mode through videoconference
Further information on how to present qualifications/publications	In presenting their CV, it is important for candidates to highlight the following features as they will be used as evaluation parameters: publications (e.g. in International Journals, International Conferences, Book Chapters), the degree mark (or equivalent qualification) obtained, work experience and acquired skills. It is also important for candidates to highlight the following features when presenting their research project as they will be used as evaluative parameters: Relevance to the research themes that appear in this public exam, Originality, Execution modalities, Feasibility, Clear presentation/exposition. A possible outline for the presentation of the research project plan, which must not exceed 10 pages, is the following: - motivations and logic foundation; - state of the art; - objectives; - methods employed; - preliminary workplan; - expected outcomes; - bibliography.
Exam Syllabus	The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research projects. In addition, the interview will also focus on the content of the research project, inherent to one of the listed research themes, submitted by the candidate. The interviews may also take place electronically through MS Teams with video mode enabled to check the candidate's identity, upon request sent by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizio Valle (maurizio.valle@unige.it), subject: Interview Ph.D. STIET XXXVIII cycle.

Research Themes	1. Intelligent models for the analysis of complex scenarios in security and cyber-security applications 2. Novel inversion techniques for electromagnetic imaging and antenna diagnostics 3. Edge Computing solutions for Non-Terrestrial networks 4. Methods for security assessment of systems with wireless communication interfaces 5. Methods for detecting and processing physiological parameters based on electronic sensors and Machine Learning techniques (DM118, PA) 6. Edge/cloud big data management and machine learning 7. Artificial Intelligence explainability methods for perception and decision making 8. Human Machine Haptic Interfaces (DM 118, PA) 9. Energy Harvesting Systems for Autonomous Wireless Sensor Networks (DM118, Ricerca PNRR) 10. Power Management Integrated Circuit for energy harvesting 11. Battery-indifferent IC for constrained sensor nodes 12. Active inference for wireless communications in uav and mobile agents 13. Signal analysis during motor/cognitive rehabilitation (DM118, Ricerca PNRR) 14. Machine Learning techniques for the Analysis of Earth Observation Remote Sensing Images 15. Methods and technologies for the sustainability of integrated mobile radio network (5 and 6G) and Edge-Cloud computing. 16. Design of a data acquisition frameworks, based on the Internet of Things (IoT) technology, supporting the development of AI-based models in Freight and Logistic scenarios (funded by PNRR – Centro Nazionale per la Mobilità Sostenibile (CNMS) – CN00000023 (Missione 4 Componente 2 Investimento 1.4 "Potenziamento strutture di ricerca e creazione di "campioni nazionali di R&S" su alcune Key Enabling Technologies" finanziato dall'Unione europea - NextGenerationEU")) 17. Methods and technologies for efficient edge computing AI implementation for next generation sensor networks (DM117, co-funded by: FOS Spa) 18. Innovative automation and control architectures for manufacturing plants capable of working in total autonomy for long periods of time, a mode of production known as lights-out (DM117, co-funded by: Engineering Ingegneria Informatica S.p.A.)
Information on references	Candidates MUST choose AT LEAST one and not more than three referees to support their candidacy. The referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following e-mail address maurizio.valle@unige.it, with subject: Ph.D. STIET XXXVIII cycle_ Candidate Name_ reference letter The candidate MUST indicate in the submitted application names, status and affiliation of the referees. The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to scientific research development.
Foreign Languages	English
Further Information	Prof. Maurizio Valle DITEN - Università di Genova Via Opera Pia 11A 16145, Genova, Italy maurizio.valle@unige.it

Course: SCIENCE AND TECHNOLOGY FOR ELECTRONIC AND TELECOMMUNICATION ENGINEERING
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: ELECTROMAGNETISM, ELECTRONICS, TELECOMMUNICATIONS (CODE 9953)

Course Coordinator: Valle Maurizio	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: 3 – **Grants**: 3 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Canova Tech Srl, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Innovative systems and algorithms for reliable and high-performance multidrop Ethernet networks over single-pair conductor cable	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of FOS Spa, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: AI edge computing for Industrial Internet of Things	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Neologica Srl, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: Development of methods and systems of image processing and artificial intelligence for the diagnostic investigation in the musculoskeletal district	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	25.07.2023 - 09.30 am CET at the Electrical, Electronics and Telecommunication Engineering and Naval Architecture Department (DITEN), University of Genova, Via Opera Pia 11A – 16145 Genova or alternatively by telematic mode through videoconference
Further information on how to present qualifications/publications	In presenting their CV, it is important for candidates to highlight the following features as they will be used as evaluation parameters: publications (e.g. in International Journals, International Conferences, Book Chapters), the degree mark (or equivalent qualification) obtained, work experience and acquired skills. It is also important for candidates to highlight the following features when presenting their research project as they will be used as evaluative parameters: Relevance to the research themes that appear in this public exam, Originality, Execution modalities, Feasibility, Clear presentation/exposition. A possible outline for the presentation of the research project plan, which must not exceed 10 pages, is the following: - motivations and logic foundation; - state of the art; - objectives; - methods employed; - preliminary workplan; - expected outcomes; - bibliography.
Exam Syllabus	The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research projects. In addition, the interview will also focus on the content of the research project, inherent to one of the listed research themes, submitted by the candidate. The interviews may also take place electronically through MS Teams with video mode enabled to check the candidate's identity, upon request sent by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizio Valle (maurizio.valle@unige.it), subject: Interview Ph.D. STIET XXXVIII cycle.

Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): - Innovative systems and algorithms for reliable and high-performance multidrop Ethernet networks over single-pair conductor cable - AI edge computing for Industrial Internet of Things - Development of methods and systems of image processing and artificial intelligence for the diagnostic investigation in the musculoskeletal district
Information on references	Candidates MUST choose AT LEAST one and not more than three referees to support their candidacy. The referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following e-mail address maurizio.valle@unige.it, with subject: Ph.D. STIET XXXVIII cycle_ Candidate Name_ reference letter The candidate MUST indicate in the submitted application names, status and affiliation of the referees. The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to scientific research development.
Foreign Languages	English
Further Information	Prof. Maurizio Valle DITEN - Università di Genova Via Opera Pia 11A 16145, Genova, Italy maurizio.valle@unige.it Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

Course: SCIENCE AND TECHNOLOGY FOR ELECTRONIC AND TELECOMMUNICATION ENGINEERING
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: COMPUTATIONAL VISION, AUTOMATIC RECOGNITION AND LEARNING (CODE 9954)

Course Coordinator: Valle Maurizio	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: 4 – **Grants**: 4 (*)	
(*) 4 grants funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	Interview: July 27, 2023 – 1:30 PM at IIT, Italian Institute of Technology, Via Enrico Melen, 83, Genoa or alternatively by telematic mode through videoconference MS Teams
Further information on how to present qualifications/publications	The candidates must clearly highlight in the Curriculum Vitae the following features as they will be used for the evaluation: the publication list (e.g. in International Journals, International Conferences, Book Chapters), the achieved degree mark (or equivalent qualification), the work experience and acquired skills. The following features of the submitted research project will be assessed in particular: relevance to the research themes that appear in this public call, originality, implementation, feasibility, clarity of presentation. The research project MAXIMUM LENGTH IS 10 PAGES A possible structure of the research project plan is the following: - Motivations and rationale - State of the art - Objectives - Employed methods - Preliminary work plan - Expected outcomes - Bibliography More info: https://pavisdata.iit.it/data/phd/ResearchProjectTemplate.pdf
Exam Syllabus	The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research projects. In addition, the interview will also focus on the themes of the research project, inherent to the listed research themes, submitted by the candidate. The interviews may also take place electronically through MS Teams with video mode enabled to check the candidate's identity, upon request sent by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizio Valle maurizio.valle@unige.it and to Dr. Alessio Del Bue alessio.delbue@iit.it, subject: Interview Ph.D. STIET XXXIX cycle.
Research Themes	Theme A: 3D scene understanding with geometrical and deep learning reasoning Theme B: Multi-modal learning Theme C: Self-Supervised and Unsupervised Deep Learning Theme D: Generative models for human and scene generation Theme E: Novel Graph Operators for learning on large-scale and temporal data Theme F: Domain adaptation and Generalization More detailed information on the specific themes and indication of supervisors, at https://pavisdata.iit.it/data/phd/2023_2024_ResearchTopicsPhD_IIT-PAVIS.pdf
Information on references	Candidates MUST choose not less than one and not more than three referees to support their candidacy. The referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following addresses: maurizio.valle@unige.it e alessio.delbue@iit.it, with subject: Ph.D. STIET XXXIX Cycle_ Candidate Name_ reference letter The candidate MUST indicate in the submitted application names, status and affiliation of the referees. The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to scientific research development.
Foreign Languages	English

Further Information	Prof. Maurizio Valle DITEN - Università di Genova Via Opera Pia 11A 16145, Genova, Italy maurizio.valle@unige.it and Dr. Alessio Del Bue, Ph.D. Director, PAVIS - Pattern Analysis & Computer Vision IIT Istituto Italiano di Tecnologia Via Enrico Melen, 83, 16152, Genova, GE alessio.delbue@iit.it

Course: PAEDIATRIC SCIENCES
In agreement with IRCCS Istituto Giannina Gaslini

Curriculum: ENDOCRINOLOGY AND DIABETOLOGY (CODE 9955)

Course Coordinator: Striano Pasquale	
Department of Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 19th 2023 – 2 pm, Aula Museo - Hall 16, 1st floor, Gaslini Children's Hospital, Genoa. The interview can take place, at the request of the person concerned for proven impediments to appear in person or if the health situation makes it necessary, also in telematic mode. Candidates who require the telematic modality must contact with adequate notice Prof. Pasquale Striano (pstriano@unige.it) and Dott.ssa Chiara Armani (chiara.armani@unige.it).
Exam Syllabus	Contents of the Interview: - previous experience of research work, including that relating to the thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English through the presentation of the research project
Research Themes	Pediatric Endocrinology
Information on references	Candidates must choose no less than one and no more than three candidates to support the application. These contacts must be university lecturers or subject matter experts. It will be the responsibility of the contact persons to send the reference letters, within the deadline of the deadline of the call, to the Coordinator of the PhD course Prof. Pasquale Striano (pstriano@unige.it) and for information to: chiara.armani@unige.it.
Foreign Languages	English

Course: PAEDIATRIC SCIENCES
In agreement with IRCCS Istituto Giannina Gaslini

Curriculum: GENETICS (CODE 9956)

Course Coordinator: Striano Pasquale	
Department of Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded by Università degli Studi di Genova and cofunded by Department DINOGMI, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 19th 2023 – 2 pm, Aula Museo - Hall 16, 1st floor, Gaslini Children's Hospital, Genoa. The interview can take place, at the request of the person concerned for proven impediments to appear in person or if the health situation makes it necessary, also in telematic mode. Candidates who require the telematic modality must contact with adequate notice Prof. Pasquale Striano (pstriano@unige.it) and Dott.ssa Chiara Armani (chiara.armani@unige.it).
Exam Syllabus	Contents of the Interview: - previous experience of research work, including that relating to the thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English through the presentation of the research project
Research Themes	Genetic Disorders
Information on references	Candidates must choose no less than one and no more than three candidates to support the application. These contacts must be university lecturers or subject matter experts. It will be the responsibility of the contact persons to send the reference letters, within the deadline of the deadline of the call, to the Coordinator of the PhD course Prof. Pasquale Striano (pstriano@unige.it) and for information to: chiara.armani@unige.it.
Foreign Languages	English

Course: PAEDIATRIC SCIENCES
In agreement with IRCCS Istituto Giannina Gaslini

Curriculum: PAEDIATRIC SPECIALITIES (CODE 9957)

Course Coordinator: Striano Pasquale	
Department of Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)	
Places: 11 (°) – **Grants**: 8 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 117 dated 2.3.2023 (cofunded by: IRCCS Istituto Giannnina Gaslini), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001710008) (*) 5 grants funded by IRCCS Istituto Giannina Gaslini, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (°) 3 positions reserved for IRCCS Istituto Giannina Gaslini employees	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 19th 2023 - 2 pm, Aula Museo - Hall 16, 1st floor, Gaslini Children's Hospital, Genoa. The interview can take place, at the request of the person concerned for proven impediments to appear in person or if the health situation makes it necessary, also in telematic mode. Candidates who require the telematic modality must contact with adequate notice Prof. Pasquale Striano (pstriano@unige.it) and Dott.ssa Chiara Armani (chiara.armani@unige.it).
Exam Syllabus	Contents of the Interview: - previous experience of research work, including that relating to the thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English through the presentation of the research project
Research Themes	Paediatric Specialties Research theme for grant funded within D.M. 117/2023: Transition in adulthood of chronic pediatric diseases. Multimodal neuromonitoring and cerebral autoregulation assessment in Neonatal and Pediatric Intensive Care
Information on references	Candidates must choose no less than one and no more than three candidates to support the application. These contacts must be university lecturers or subject matter experts. It will be the responsibility of the contact persons to send the reference letters, within the deadline of the deadline of the call, to the Coordinator of the PhD course Prof. Pasquale Striano (pstriano@unige.it) and for information to: chiara.armani@unige.it.
Foreign Languages	English

Course: SOCIAL SCIENCES

Curriculum: MIGRATIONS AND INTERCULTURAL PROCESSES (CODE 9958)

Course Coordinator: Andrighetto Luca	
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
Places: 5 – **Grants**: 5 (*) [1]	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant cofunded by MUR/Department (DISFOR), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded within D.M. 118 del 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001470006) (*) 1 grant funded by Fondazione Intesa San Paolo Onlus, under condition of the approval of funding by Fondazione Intesa Sanpaolo Onlus; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 [1]	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	24.7.2023 – 9.00 am The interview will take place in telematic mode through the Teams platform
Further information on how to present qualifications/publications	The following will be assessed: 1. The quality of the research project presented (before writing the research project please carefully read the instructions at this link: https://tinyurl.com/mw9xnhzd) 2. Research experience and scientific publications. 3. Thesis of the 5 or 4-year degree course, which must be attached in PDF format. 4. Academic curriculum and degree mark. 5. Specific experiences relevant to the Doctorate themes
Exam Syllabus	For the admission to the interview, a minimum score, decided by the Commission, and resulting from the qualifications and the project (please carefully read the instructions at this link: https://tinyurl.com/mw9xnhzd) evaluation, is required. The interview will focus on the discussion of the research project and of the qualifications presented, with special reference to some aspects of research methodologies and data analysis techniques within the specific subject areas. During the interview, the candidate's real motivation, together with his/her knowledge of two European languages (Italian, English, French and Spanish) will be assessed.).
Research Themes	- Integration, acculturation and identity construction processes through different levels of analysis (individual, family, group), - Transnational migration, migrant families and young people with a migration background in social and educational contexts - Ingroup-outgroup relationships in various contexts (educational, formative and work-related). - Intercultural processes in the wake of migration movements both for the countries of origin and in those of arrival. - Reception systems; forced migrations, environmental migrations and transformations following migrations in urban and rural contexts from local to global. - Analysis of the skills of public and private social workers and development of training models - Demographic and spatial dynamics related to depopulation and relocation processes in marginal regions. - Displacement and relocation processes in relation to climate change and environmental emergency contexts. - Storytelling, in all its modes and forms, as an opportunity for knowledge, analysis, interpretation of intercultural processes and inclusion. - Relations of public administration workers with migrant children and their families; implementation of multicultural and intercultural competences in child and social service workers to think about and promote the development of inclusive communities; definition of policy models that take into account the specificities of users with a migrant background and their families, as well as the needs and practices of the institution with which the users come into contact (research theme for grant funded within D.M. 118/2023 - Azione Dottorati per la Pubblica Amministrazione). These research themes can be analyzed using models and methods of various disciplines in the

	field of social sciences (anthropology, geography, pedagogy, psychology, sociology, history).
Information on references	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
Foreign Languages	English or French or Spanish
Further Information	Website: https://scienzesociali.dottorato.unige.it/ Curriculum Coordinator: Prof. Nadia Rania, DISFOR, C.so Podestà 2 nadia.rania@unige.it Coordinator of the Phd Course in Social Science: Prof. Luca Andrighetto, DISFOR, C.so Podestà, 2 luca.andrighetto@unige.it Administrative manager: Dott. Saro Cardona, DISFOR, C.so Podestà 2, dottoratoscienzesociali.disfor@unige.it

[1] 1 position with grant following the participation to the call by Fondazione Intesa San Paolo onlus, initiative "Dottorati in discipline umanistiche" - 39° Ciclo – academic year 2023-2024

Course: SOCIAL SCIENCES

Curriculum: PSYCHOLOGY AND COGNITIVE SCIENCES (CODE 9959)

Course Coordinator: Andrighetto Luca	
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
Places: 3 – **Grants**: 3 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 del 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001470006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	24.07.2023 – 9 a.m. The interview will take place in telematic mode through the Teams platform
Further information on how to present qualifications/publications	The following titles will be evaluated: 1. Quality of the research project which will be presented by candidate (before writing the research project please carefully read the instructions at this link: https://tinyurl.com/mw9xnhzd) 2. Research experiences and scientific publications 3. Master's or four-year degree thesis, which can be attached in PDF format 4. Academic curriculum and degree mark The Commission will reserve the possibility of setting a minimum score threshold obtained by the candidate in the titles' evaluation in order to access the interview.
Exam Syllabus	The research project presented must be inherent to the research topics of the Psychology and Cognitive Sciences Curriculum listed below (before writing the research project please carefully read the instructions at this link: https://tinyurl.com/mw9xnhzd). The interview will focus on the discussion of the research project and the titles presented, also with attention to general aspects of research methodology in psychology and data analysis techniques in the specific disciplinary areas. The interview can be held in Italian or English, chosen by the candidate. If the interview will take place in Italian, knowledge of the English language will be assessed during the interview.
Research Themes	- Working memory, Intelligence, cognitive and non-cognitive abilities. Female/male differences in cognitive and non-cognitive abilities (e.g., intelligence, mathematics, anxiety). Cognitive ergonomics. Non-technical skills and high-fidelity simulation. Human-machine interaction and interaction design. Experimental pragmatic. Neuropsychology of language. Aging. Psychology of tourism. Acquisition and evolution of language. Psycholinguistics. - Language and executive functions in typical and atypical development. School inclusion of pupils with developmental disorders. Neo-Piagetian models of cognitive development. Understanding and learning of mathematics. Cognitive processes in child drawing. - Dehumanization and objectification in interpersonal and intergroup relationships. Prejudice, its different forms and reduction strategies. Quality of working life and psychosocial risks. Leadership. Professional development and training. - Psychopathological disorders/symptoms, behavioural addictions and emotional (dys)regulation in middle childhood, in adolescents and adults. Attachment theory: research, clinical applications assessment methods and attachment-based treatments. Adoption. High risk adolescents. Mentalization in clinical and non-clinical groups. Risk factors and protection in couples and families. - Safety culture, risk prevention and risk management behaviour, safety training, safety promotion, human factors and organizational resilience, accident analysis and systemic approaches in healthcare and medical research domain (research theme for grant funded within D.M. 118/2023 - Azione Dottorati per la Pubblica Amministrazione).
Information on references	Reference letters are not required. In any case, reference letters received will not be taken into consideration for the purposes of the evaluation.
Foreign Languages	English

Further Information	Website: https://scienzesociali.dottorato.unige.it/ Curriculum Coordinator: Prof. Cecilia Serena Pace, DISFOR, C.so Podestà 2 cecilia.pace@unige.it Coordinator of the Phd Course in Social Science: Prof. Luca Andrighetto, DISFOR, C.so Podestà, 2 luca.andrighetto@unige.it Administrative manager: Dott. Saro Cardona, DISFOR, C.so Podestà 2, dottoratoscienzesociali.disfor@unige.it

Course: SOCIAL SCIENCES

Curriculum: POLITICAL SCIENCES (CODE 9960)

Course Coordinator: Andrighetto Luca	
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
Places: 3 – **Grants**: 3 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 del 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001470006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	25.7.2023 – 10:30 a.m. At the Dipartimento di Scienze Politiche e Internazionali (DISPI), Albergo dei Poveri, piazzale E. Brignole 2A (cancello), Genova. The option of a video (to verify the candidate's ID) conferencing interview via Teams platform is available. After the publication of the evaluations about qualifications and project proposal, candidates admitted to the interview who request the video conferencing interview are asked to send an e-mail to the President's committee and curriculum coordinator, before 24.7.2023 - 19 pm (local timezone). In the e-mail, the candidate's name, surname, and the Teams address must be specified.
Further information on how to present qualifications/publications	The examining commission reserves the right to fix a minimum score threshold to be obtained by candidates in the evaluation of their qualifications/publications in order to be admitted to the written test. The following will be evaluated: 1. The quality of the research project presented by the candidate (before writing the research project please carefully read the instructions at this link: https://tinyurl.com/mw9xnhzd) 2. Research experiences and scientific publications; 3. Academic curriculum and graduation mark
Exam Syllabus	The interview will focus on: - the discussion of the presented research project (please carefully read the instructions ah this link: https://tinyurl.com/mw9xnhzd) - disciplinary topics within the specific subject areas of the project - aspects of research methodologies within the specific subject areas. During the interview, the candidate's knowledge of English language will be assessed.
Research Themes	- Political ideas, ideologies and political phenomena in a historical-critical perspective - Human Rights promotion and protection in a local, national and international dimension - Social and political changes in democratic contexts: the transformation dynamics of the political and cultural relations linked to the changes - Regulation of scientific activity: between law, market and politics and its influence on research practices - The «participated» municipal administration: an innovative strategy to promote urban security (research theme for grant funded within D.M. 118/2023 - Azione Dottorati per la Pubblica Amministrazione)
Information on references	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
Foreign Languages	English
Further Information	Website: https://scienzesociali.dottorato.unige.it/ Curriculum Coordinator: Prof. Prof. Paolo Parra Saiani, DISPI, paolo.parra.saiani@unige.it Coordinator of the Phd Course in Social Science: Prof. Luca Andrighetto, DISFOR, C.so Podestà, 2 luca.andrighetto@unige.it Administrative manager: Dott. Saro Cardona, DISFOR, C.so Podestà 2, dottoratoscienzesociali.disfor@unige.it

Course: SOCIAL SCIENCES

Curriculum: SOCIOLOGY (CODE 9961)

Course Coordinator: Andrighetto Luca	
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	21.7.2023 – 9:30 am at Dipartimento di Scienze della Formazione (DISFOR), Corso A. Podestà 2, Genova. The option of a video (to verify the candidate's ID) conferencing interview via Teams platform is available. After the publication of the evaluations about qualifications and project proposal, candidates admitted to the interview who request the video conferencing interview are asked to send an e-mail to the President's committee and curriculum coordinator, before 20.7.2023 - 7 pm (local timezone). In the e-mail, the candidate's name, surname, and the Teams address must be specified.
Further information on how to present qualifications/publications	A minimum score, decided by the Commission, resulting from the qualifications and the project evaluation, is required for the admission to the interview. The following will be assessed: 1. The quality of the research project presented (before writing the research project please carefully read the instructions at this link: https://tinyurl.com/mw9xnhzd) 2. Research experience and scientific publications 3. Thesis of the 5 or 4-year degree course, which has to be attached in PDF format 4. Academic curriculum and degree mark. The results of the qualifications evaluation will be available at least two days before the discussion.
Exam Syllabus	The interview will focus on the research project (please carefully read the instructions at this link: https://tinyurl.com/mw9xnhzd) and the qualifications presented by the candidate with special reference to aspects of general research methodology, and data analysis techniques referred to the specific disciplinary contexts. During the interview, the knowledge of a foreign language will be tested.
Research Themes	-Methodology of social research. -Evaluation of educational and social policies. -Visual Sociology. -Social disparities. -Social policies. -The youth situation. -Dynamics of the labour market. -Sociology of organisations and work. -Sociology of science and technology. -Sociology of cultural processes and communication. -Sociology of deviance. -Sociology of education. -Sociology of the family. -Urban sociology. -Gender studies.
Information on references	Reference letters are not required. Any reference letter received will not be taken into consideration for the final score.
Foreign Languages	English, French, Spanish
Further Information	Website: https://scienzesociali.dottorato.unige.it/ Curriculum Coordinator: Prof. Luca Guzzetti, DISFOR, C.so Podestà 2, luca.guzzetti@unige.it Coordinator of the Phd Course in Social Science: Prof. Luca Andrighetto, DISFOR, C.so Podestà 2, luca.andrighetto@unige.it Administrative manager: Dott. Saro Cardona, DISFOR, C.so Podestà 2, dottoratoscienzesociali.disfor@unige.it

Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

Curriculum: CYBERSECURITY AND RELIABLE ARTIFICIAL INTELLIGENCE (CODE 9962)

Course Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 13 (°) – **Grants**: 11 (*)	
(*) 3 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded within PNRR – Partenariato Esteso SERICS project,the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22001300002). (*) 2 grants funded by FBK Foundation, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 2 grants funded by Leonardo S.p.A., the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 2 grants funded within D.M. 117 del 02.03.2023 (cofunded by Rina Consulting S.p.A), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001760008). (*) 1 grants funded within D.M. 118 del 02.03.2023 (Ricerca PNRR cofunded by DIBRIS), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001480006). (°) 2 positions for employee of aizoOn	

Comparative assessment procedure	Titles and interview
Interview	19/07/2023 at 8:00 remotely on Zoom (ID: 88578791142 - Passcode: 603092) by contacting the curriculum coordinator Prof. Luca Oneto (luca.oneto@unige.it) at least 7 days before the evaluation in case of any issues. For this purpose, the candidate must have a reliable internet connection to facilitate the conduct of the test. Interviews will continue on subsequent days in case of a high number of candidates.
Further information on how to present qualifications/publications	Candidates can choose up to a maximum of 2 research topics among those listed below and submit • a research project, up to a maximum of 10 pages, which should highlight the candidate's motivations and research interests. The project should include a summary, a state of the art section completed with relevant publications, and the objectives of the activity; • a document from the university that awarded their degree (transcript of records), which shows the courses and grades obtained throughout their academic career (Bachelor and M.Sc.), specifying the GPA or equivalent indicator. Candidates who do not yet possess the degree required for admission to the doctoral program at the time of the deadline may submit additional documentation that they consider more appropriate to document their academic career; • a curriculum.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.

Research Themes	1. Security of AI-enabled Systems of Systems - Grant UNIGE 2. Cybersecurity - Grant UNIGE 3. Design of AI-Enabled Systems - Grant UNIGE 4. Science and Engineering of AI Security - Grant DIBRIS on Partenariato Esteso SERICS 5. Automated security, privacy, and risk management of digital identity solutions - Grant FBK 6. Formal methods for industry - Grant FBK 7. Identification and simulation of the effect of defensive cyber course of actions during a cyber attack - Grant Leonardo 8. Cloud Security – Confidential Computing - Grant Leonardo 9. Trustworthy AI for Industrial Applications - Borse D.M. 117 Rina (2 grants) 10. Robust Artificial Intelligence for Safety Critical Application - Grant D.M. 118 DIBRIS 11. Trustworthy Machine Learning for industry 4.0 - aizoOn Worker 12. AutoEncoder applications in network security: dimensionality reduction, anomaly detection, and explainability - aizoOn Worker Additional information about the research projects can be found on the webpage http://sicurezza.unige.it
Information on references	Candidates must choose no less than 2 and no more than 3 references in support of their application. These references must be university professors or subject matter experts. If the reference is not a university professor, a Curriculum Vitae and a list of publications from the reference are required. It is the responsibility of the references to send the reference letters to the Curriculum Coordinator at the following address: luca.oneto@unige.it, by the application deadline. In the admission application, candidates must provide the full name, position, and affiliation of the chosen references. Reference letters that are not submitted as requested will not be considered.
Foreign Languages	English
Further Information	Curriculum Coordinator Prof. Luca Oneto DIBRIS, Opera Pia 11a, Genova luca.oneto@unige.it PhD Course Web Page http://sicurezza.unige.it

Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

Curriculum: CYBERSECURITY AND RELIABLE ARTIFICIAL INTELLIGENCE (CODE 9963)

Course Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 2 – **Grants**: 2 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** (cofunded by Progetto Adele S.r.l.) under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243,00. (*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** (cofunded 1 by Leonardo S.p.A.) under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM ● Assessment of qualifications/publications and the curriculum vitae et studiorum ● Written test (research project) ● Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	19/07/2023 at 8:00 remotely on Zoom (ID: 88578791142 - Passcode: 603092) by contacting the curriculum coordinator Prof. Luca Oneto (luca.oneto@unige.it) at least 7 days before the evaluation in case of any issues. For this purpose, the candidate must have a reliable internet connection to facilitate the conduct of the test. Interviews will continue on subsequent days in case of a high number of candidates.
Further information on how to present qualifications/publications	Candidates can choose up to a maximum of 2 research topics among those listed below and submit ● a research project, up to a maximum of 10 pages, which should highlight the candidate's motivations and research interests. The project should include a summary, a state of the art section completed with relevant publications, and the objectives of the activity; ● a document from the university that awarded their degree (transcript of records), which shows the courses and grades obtained throughout their academic career (Bachelor and M.Sc.), specifying the GPA or equivalent indicator. Candidates who do not yet possess the degree required for admission to the doctoral program at the time of the deadline may submit additional documentation that they consider more appropriate to document their academic career; ● a curriculum.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	● HPC for Safe and secure AI - Borsa Regionale Leonardo S.p.A. ● Metodi Di Intelligenza Artificiale Applicati Al Segmento Di Trasporto Multimodale Di Ultimo Miglio - Borsa Regionale Progetto Adele S.r.l. Additional information about the research projects can be found on the webpage http://sicurezza.unige.it
Information on references	Candidates must choose no less than 2 and no more than 3 references in support of their application. These references must be university professors or subject matter experts. If the reference is not a university professor, a Curriculum Vitae and a list of publications from the reference are required. It is the responsibility of the references to send the reference letters to the Curriculum Coordinator at the following address: luca.oneto@unige.it, by the application deadline. In the admission application, candidates must provide the full name, position, and affiliation of the chosen references. Reference letters that are not submitted as requested will not be considered.
Foreign Languages	English

Further Information	Curriculum Coordinator Prof. Luca Oneto DIBRIS, Opera Pia 11a, Genova luca.oneto@unige.it PhD Course Web Page http://sicurezza.unige.it Further information about commitments and conditions of the grants funded within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE are available in the Notice of competition (article XXX, paragraph XXXX)

Curriculum Coordinator
Prof. Luca Oneto DIBRIS, Opera Pia 11a, Genova luca.oneto@unige.it
PhD Course Web Page http://sicurezza.unige.it

Course: SECURITY, RISK AND VULNERABILITY
Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

Curriculum: SECURITY AND LAW (CODE 9964)

Course Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 2 – **Grants**: 2 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	18.07.2023, 10 am, Law Department, meeting room of the former Administrative Law Section, 2/A floor, via Balbi 22, Genova. Interview by Skype is possible as well. The interview can be scheduled on the days after, in case of high number of applications.
Further information on how to present qualifications/publications	"Qualifications" the information contained in the application and in the curriculum vitae et studiorum, the research project, further qualifications. The application form and its attachment can be written in Italian or English or French or Spanish.
Exam Syllabus	The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically: - The RESEARCH PROJECT must fit into some of the research topics of the PhD programme. It must contain (i) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument(s) the candidate will use to address the problem. - The INTERVIEW will be used to discuss the research project presented by the candidate and its relation to some of the research topics of the PhD curriculum in Security and Law, namely Artificial intelligence and law - Conceptual analysis of security - Cybersecurity and cybercrime - Cybersecurity and law - Data retention and search engines - Digital Identity - E-democracy, cybersecurity and fundamental rights in the cyberspace - E-government, sustainability and digital transition of the citizenship - Rule of law and algorithmic administration - Algorithms in public decision-making - New technologies and digitalization in cultural heritage, civil protection, and public contracts - Smart city public regulation and governance, also with regard to climate change - Virtual reality and metaverse as drivers of change in the workplace - Algorithmic discrimination in the labour market - The Private International Law of Secured Transactions - Cyber War and Cyber Security in International Law - Health security - Human rights in the digital age - Internet governance - Machine learning and law - New technology and labor relations - Philosophy of privacy and new surveillance society - Personal data protection - Privacy and big data - Smart contracts - Class actions and other mechanisms of collective enforcement of rights - The use of new technologies to facilitate access to justice - Technology induced developments in the philosophy of criminal responsibility and punishment

Research Themes	Lines of research are focused on the following macro-areas: Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law Doctrinal analysis of legal issues connected to security, risk and vulnerability in public or private law Economic analysis of legal issues connected to security, risk, or vulnerability in public or private law
Information on references	- Coordinator of the PhD Programme Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova (+39) 3281003201 alessandro.armando@unige.it - Coordinator of the curriculum Prof. Giorgio Afferni DIGI, Via Balbi 22, Genova (+39) 3356063568 giorgio.afferni@unige.it - Administrative contact of the curriculum Dott.ssa M. Stefania Lavezzo Via Balbi 22, Genova (+39) 0102095436, int. 55436 maria.Stefania.Lavezzo@unige.it
Foreign Languages	English

Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

Curriculum: SECURITY AND STRATEGIC STUDIES (CODE 9965)

Course Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 3 – **Grants**: 3 (*)	
(*) 3 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	19/07/2023, 11.00 a.m., online (Teams). The meeting code will be provided by e-mail.
Further information on how to present qualifications/publications	The Commission will assess: 1. Quality of the research project 2. Research experiences and scientific publications 3. Master thesis (which must be attached in PDF format) 4. Academic curriculum and final degree mark The Commission will set a minimum threshold obtained by the candidate in the evaluation of cv and research project in order to access the interview
Exam Syllabus	Candidates who obtain the minimum score established by the Commission on research projects and the cv will be admitted to the interview. The interview will focus on the discussion of the research project and the titles presented, with a specific attention devoted to research methodology. During the interview, the motivational aspects will be assessed and the knowledge of English will be ascertained.
Research Themes	Within International Relations, Security Studies, Foreign Policy Analysis a specific attention will be devoted to: Causes and features of civil wars; Institutional and political solutions to civil wars; Evolution of Peacekeeping and Peace-building; Tools and approaches in foreign and defense policy. Technology and security
Information on references	Two references letters to be sent by e-mail to the curriculum coordinator.
Foreign Languages	English
Further Information	For further information please get in contact with prof. Giampiero Cama (curriculum coordinator e-mail: gcama@unige.it) or prof. Fabrizio Coticchia (e-mail: fabrizio.coticchia@unige.it)

Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

Curriculum: MANAGEMENT AND SECURITY (CODE 9966)

Course Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 3 – **Grants**: 3 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 funded by Fondazione Ricerca & Imprenditorialità, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 20, 2023 at 14:30 on teams. Candidates will receive information by e-mail.
Further information on how to present qualifications/publications	"Qualifications" mean useful information to appreciate the application, starting from the *Curriculum Vitae et Studiorum*, the research project and any further element. The application form and its attachment have to be written in English. Documents must be sent in electronic form.
Exam Syllabus	The interview consists in a discussion on the *Curriculum Vitae et Studiorum* and qualifications/publications and an in depth presentation of the candidate's research project. The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	The research lines characterizing the curriculum follow the indications available in the website https://sicurezza.unige.net/curricula/ms Specific attention may be devoted to the following issue. ● innovation management and technological transfer and connected activities finalized to cooperative network creation able to stimulate, support and enhance innovation (rif Fondaz R&I grant).
Information on references	Candidates must choose at least one and no more than three referees to support their candidature. The referees must be university professors or experts in the subject. If the referee is not a university professor, he/she must also send his/her Curriculum Vitae and a list of publications. The reference letter must be send by the referees, within the deadline of the public notice, to the responsible of the curriculum (teresina.torre@economia.unige.it), object: reference letter –Name –phd. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English
Further Information	Coordinator of the PhD Programme Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova (+39) 3281003201 alessandro.armando@unige.it Responsible of the Curriculum Prof.ssa Teresina Torre DIEC, Via Vivaldi 5. Genova (+39) teresina.torre@economia.unige.it

Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

Curriculum: MANAGEMENT AND SECURITY (CODE 9967)

Course Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** (cofunded by ETT S.p.A.) under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 20, 2023 at 14:30 on MS Teams. Candidates will receive information by e-mail.
Further information on how to present qualifications/publications	"Qualifications" mean useful information to appreciate the application, starting from the *Curriculum Vitae et Studiorum*, the research project and any further element. The application form and its attachment have to be written in English. Documents must be sent in electronic form.
Exam Syllabus	The interview consists in a discussion on the *Curriculum Vitae et Studiorum* and qualifications/publications and an in depth presentation of the candidate's research project. The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	The research lines characterizing the curriculum follow the indications available in the website https://sicurezza.unige.net/curricula/ms Specific attention may be devoted to the following issue. ● definition of a system supporting local polity based on territorial big data in order to reduce socio-economic vulnerability of the local community (rif. ETT S.p.A. grant)
Information on references	Candidates must choose at least one and no more than three referees to support their candidature. The referees must be university professors or experts in the subject. If the referee is not a university professor, he/she must also send his/her Curriculum Vitae and a list of publications. The reference letter must be send by the referees, within the deadline of the public notice, to the responsible of the curriculum (teresina.torre@economia.unige.it), object: reference letter –Name –phd. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English
Further Information	Coordinator of the PhD Programme Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova (+39) 3281003201 alessandro.armando@unige.it Responsible of the Curriculum Prof.ssa Teresina Torre DIEC, Via Vivaldi 5. Genova (+39) teresina.torre@economia.unige.it Further information about commitments and conditions of the grants funded within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE are available in the Notice of competition (article XXX, paragraph XXXX)

Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

Curriculum: RISK AND RESILIENCE ENGINEERING FOR THE NATURAL, INDUSTRIALIZED AND BUILT ENVIRONMENTS (CODE 9968)

Course Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 5 – **Grants**: 5 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
(*) 1 grant funded within PNRR – Partenariato Esteso PE-RETURN project under condition of the approval of ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22001290002).	
(*) 1 grant funded within PNRR – Partenariato Esteso RETURN project under condition of the approval of ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500 (CUP D33C22001290002).	
(*) 1 grant funded within D.M. 118 del 2.3.2023 (Publica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001480006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	24/7/2023, 9:00am, room A12 in Via Montallegro 1, 16145 Genova. Depending on the number of candidates, the interviews may continue in the following days. Upon request of the candidate, the interview may take place remotely by contacting Prof. Serena Cattari (serena.cattari@unige.it) at least 15 days before the date of the interview. The candidate must have a reliable internet connection. The link to the TEAMS channel will be sent via email.
Further information on how to present qualifications/publications	The research project (10 pages max) must include the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the aims of the research activity. The application (curriculum vitae) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. Degrees; Laurea Triennale and Magistrale degrees). The transcripts of Records must be official documents released by the universities which awarded the degrees. Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum and qualifications/publications. The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	Risk analyses and resilience studies addressed to assess and tackle risks arising from natural hazards and anthropic activities and their impact on society, in terms of direct and indirect losses and their economic, social and environmental consequences. Studies involve: - the natural environment such as atmosphere, soil and subsoil, fluvial and coastal environment. - industrial and civil buildings (including the monumental ones) -the infrastructure and equipment related to transportation of people, goods and energy. Among others, tools and objectives of the research are the monitoring and the planning of mitigation strategies based on a multi-disciplinary and systemic approach. Additional information on the research themes of the curriculum in "Risk and Resilience Engineering for the Natural, Industrialized and Built environments "are described in detail on the course web page: http://sicurezza.unige.it/dottorato. For the 2 grants funded by the Università degli Studi di Genova, some possible research topics are described at: https://sicurezza.unige.net/admission/how-to-apply/themes-rrenib-xxix-june-2023. For the grant funded by DICCA on the Partenariato Esteso PE-RETURN (PNRR - Missione 4 Istruzione e ricerca - Componente 2 Dalla ricerca all'impresa – Investimento 1.3 – PE RETURN "Multi-Risk Science for Resilient Communities Under a Changing Climate" Spoke VS2), the research project has been already defined and it deals with "Landslide susceptibility assessment and mapping at wide scale". Additional details on this research theme are provided at https://sicurezza.unige.net/admission/how-to-apply/themes-rrenib-xxix-june-2023 (see the grant

	dealing with PE-RETURN - Spoke VS2). For this grant the research project of the candidate must agree with the goals identified for this research theme. For the grant funded by DICCA on the Partenariato Esteso PE-RETURN (PNRR - Missione 4 Istruzione e ricerca - Componente 2 Dalla ricerca all'impresa – Investimento 1.3 – PE RETURN "Multi-Risk Science for Resilient Communities Under a Changing Climate" Spoke VS3), the research project has been already defined and it deals with "Development of decision support tools based on SHM data and low cost sensors for seismic damage scenario at urban scale and for assessing the structural usability and safety of strategic buildings". Additional details on this research theme are provided at https://sicurezza.unige.net/admission/how-to-apply/themes-rrenib-xxix-june-2023 (see the grant dealing with PE-RETURN - Spoke VS3). For this grant the research project of the candidate must agree with the goals identified for this research theme. ● For the grant funded within D.M. 118- PA of 02.03.2023 (PNRR, Missione 4, Componente 1 "Potenziamento dell'offerta dei servizi di istruzione: dagli asili nido all'Università" – Investimento 3.4 "Didattica e competenze universitarie avanzate" e Investimento 4.1 "Estensione del numero di dottorati di ricerca e dottorati innovativi per la pubblica amministrazione e il patrimonio culturale"), the research project has been already defined according to the goals of such DM and it deals with "Development of multi-risk emergency management and planning actions to enhance natural-hazard resilience of medium-to-big size municipalities". The research project will involve also the Municipality of Genova. Additional details on this research theme are provided at https://sicurezza.unige.net/admission/how-to-apply/themes-rrenib-xxix-june-2023 (see the grant dealing with D.M. 118- PA). For this grant the research project of the candidate must agree with the goals identified for this research theme.
Information on references	Candidates must choose at least one and no more than three referees to support their candidature. The referees must be university professors or experts in the subject. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The reference letter must be send by the referees, wit hin the deadline of the public notice, to the Coordinator of the PhD program (alessandro.armando@unige.it) and to the responsible of the curriculum (serena.cattari@unige.it, dottorato.dicca@unige.it). The name, status and current position of the referees chosen by the candidate must be stated in the application. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English International certifications (TOEFL, CPE, CAE, FCE, ...) included in the application will be considered a plus (preferential title).
Further Information	PhD Program Coordinator Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova alessandro.armando@unige.it Curriculum Coordinator Prof. Serena Cattari DICCA – Via Montallegro 1 1614 Genova serena.cattari@unige.it

Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Research Foundation (Fondazione CIMA)

Curriculum: RISK, CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT (CODE 9969)

Course Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 7 – **Grants**: 7 (°)	
(*) 4 grants funded in the context of D.M. 117 dated 2.3.2023 (cofunded by CIMA), under condition to the approval of Ministerial funding. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001760008). (*) 1 grant funded in the context of D.M. 118 dated 2.3.2023 (Pubblica Amministrazione cofunded by Fondazione CIMA), under condition to the approval of Ministerial funding. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001480006). (*) 1 grant funded in the context of D.M. 118 dated 2.3.2023 (Transizioni digitali e ambientali), under condition to the approval of Ministerial funding. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001570006). (*) 1 grant funded by Fondazione CIMA; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	27/7/2023 9:30 am, in the Savona Campus of the University of Genova. Depending on the number of candidates, the interviews may continue in the following days. Upon request of the candidate or due to sanitary conditions the interview may take place remotely by contacting Prof. Luca Ferraris (luca.ferraris@unige.it, RCCSD@cimafoundation.org)) at least 7 days before the date of the interview. The candidate must have a reliable internet connection.
Further information on how to present qualifications/publications	The research project (10 pages max) must include the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the aims of the research activity. The application (curriculum) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. Degrees). Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	Research lines: - Impacts of drought on plant biodiversity, ecosystem functioning and resilience in the Mediterranean Basin - Improving hydrological modeling for impact-based flood forecasting in Africa - Drought stress and aquifers dynamics in Mediterranean environments - Methodologies to support the Public Administration in decisions regarding the management of natural risks and adaptation to climate change: responsibility, compliance, transparency and accountability in the "risk society". - Wildfire Risk Scenarios under Climate Change: from wildfire susceptibility to risk including cascading and compounding effects - Rural and environmental archeology and history (historical rural landscape, environmental resources management, abandonment as an historical process) - Developing an innovative framework for the integration of situational awareness and Early Warning to Early Action strategies in the Disaster Risk Management. Further information and guidelines for the writing the research projects are available at http://sicurezza.unige.it/dottorato The candidate must develop the research project of a maximum of 10 pages required starting from those proposed. Other research topics other than these are not allowed.

Information on references	Candidates must choose at least one and no more than three referees to support their candidature. The referees must be university professors or experts in the subject. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The reference letter must be send by the referees, within the deadline of the public notice, to the Coordinator of the curriculum to the following e-mail address: luca.ferraris@unige.it RCCSD@cimafoundation.org The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English
Further Information	PhD Program Coordinator Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova alessandro.armando@unige.it Curriculum Coordinator Prof. Prof. Luca Ferraris DIBRIS, Campus Universitario, Savona luca.ferraris@unige.it

Course: HISTORY, ART HISTORY AND ARCHEOLOGY

Curriculum: HISTORY (CODE 9971)

Course Coordinator: Valenti Paola	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)	
Places: 12 (°) – **Grants**: 10 (*)	

(*) 6 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00
(*) 1 grant funded within D.M. 118 del 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001490006)
(*) 1 grant funded within D.M. 118 del 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001490006)
(*) 1 grant funded within D.M. 118 del 2.3.2023 (Patrimonio culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001490006)
(*) 1 grant funded by Fondazione Intesa San Paolo Onlus, under condition of the approval of funding by Fondazione Intesa Sanpaolo Onlus; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00
(°) 2 places reserved to employees of ETT Spa
 	
Grants (6) funded by Università degli Studi di Genova refer to the doctoral research course in its entirety and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list.
 	
Grants (3) funded within D.M. 118/2023 refer to the following curricula:
   - Grant Dottorati di ricerca PNRR refers to both the CURRICULA OF ARCHEOLOGY AND HISTORY
   - Grant Dottorati per la Pubblica Amministrazione refers only to the CURRICULUM OF ART HISTORY
   - Grant Dottorati per il Patrimonio Culturale refers only to the CURRICULUM OF ART HISTORY
 	
Grant funded by Fondazione Intesa San Paolo Onlus refers only to the CURRICULUM OF ART HISTORY.
 	
Places (2) reserved to employees of ETT Spa refers only to the CURRICULUM OF ART HISTORY.
 	
N.B.: APPLICANTS MUST SPECIFY ON THE PROJECT TITLE PAGE WHICH TYPE OF GRANT THEY INTEND TO APPLY FOR.	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	The interview of admitted candidates will take place at the University of Genova, via Balbi 2-4, on 27 July 2023, at 9.00 am (CET); only admitted candidates living abroad will be permitted to connect remotely (using Microsoft TEAMS). Further information will be provided via e-mail after 21 July 2023.
Further information on how to present qualifications/publications	Curriculum vitae, qualifications, Master Thesis, publications and Research Project must be included in pdf format, as attachments to the application. Only the qualifications and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the master's degree, which will be assessed even if previous) will be assessed. Qualifications and publications must be congruent with the research themes of the PhD Programme. Qualifications include: 1) Master's Degree (*Laurea Magistrale* or *quadriennale (vecchio ordinamento)* or an equivalent degree; 2) Copy of the MA dissertation (plus an abstract of 10.000 characters); 3) Scientific Publications, consistent with the research themes of the PhD Programme: - books; - articles in scientific journals (Class A or B in the ANVUR classification); - essays in collective volumes; - brief essays, critical notes, editorships; 4) Other qualifications: Advanced Training Courses Degrees (*corsi di perfezionamento e/o di specializzazione e/o di Alta Formazione*); Masters in disciplines related to the research themes of the PhD Programme; PhD title; Additional Master's degree in disciplines related to the research themes of the Phd Programme; Grants, Fellowships, Awards; Research activity in scientific institutions;

	Teaching activity in academic institutions; Study experiences abroad; Internships, Traineeships and professional experiences related to the research themes of the PhD programme; Title of *cultore della materia* or member of examination committees in academic institutions.
Exam Syllabus	The comparative assessment will be based on the evaluation of the candidate's qualifications, the research project and the interview designed to assess the skills and knowledge required for admission to the PhD programme. The interview will evaluate in particular: - Argumentative and analytical skills with regard to the presentation of the research project; knowledge of the state-of-the-art and historiographic context related to the research project; - Foreign language proficiency
Research Themes	Research Themes are published on the website of the Phd Programme: https://dafist.unige.it/node/1057 Research Theme for the position funded by the PNRR D.M. 118/2023 *Dottorati di ricerca PNRR*: *Andora Borgo Castello: Use, transformation, abandonment and patrimonialisation practices of the houses, land and resources of a medieval village (15th-19th century).* *Census and analysis of archive sources, cartographic and cadastral surveys, comparison with data from archaeological and topographical surveys 1988/2023, carried out as part of the PNRR Andora Borgo Castello project.*
Information on references	Letters of refence are not required and, if eventually received, will not be taken into account for the evaluation.
Foreign Languages	The interview will test the candidate's knowledge of one of these languages: English, French, German or Spanish The candidate can choose one of these languages for the interview: Italian, English, French, German or Spanish.
Further Information	For further information on the curriculum, send an email to: mariaelena.cortese@unige.it

Course: HISTORY, ART HISTORY AND ARCHEOLOGY

Curriculum: HISTORY (CODE 9972)

Course Coordinator: Valenti Paola	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)	
Places: 1 – **Grants**: 1 (*)	
(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of Ansaldo Energia and Fondazione Anssaldo, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243. Research project: *L'industria dell'energia in Italia nella seconda metà del Novecento: Genova all'avanguardia e il caso Ansaldo.*	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	The interview of admitted candidates will take place at the University of Genova, via Balbi 2-4, on 27 July 2023, at 9.00 (CET); only admitted candidates living abroad will be permitted to connect remotely (using Microsoft TEAMS). Further information will be provided via e-mail after 20 July 2023.
Further information on how to present qualifications/publications	Curriculum vitae, qualifications, Master Thesis, publications and Research Project must be included in pdf format, as attachments to the application. Only the qualifications and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the Master's degree, which will be assessed even if previous) will be assessed. Qualifications and publications must be congruent with the research themes of the PhD Programme. Qualifications include: 1) Master's Degree (*Laurea Magistrale* or *quadriennale (vecchio ordinamento)* or an equivalent degree; 2) Copy of the MA dissertation (plus an abstract of 10.000 characters); 3) Scientific Publications, consistent with the research themes of the PhD programme: - books; - articles in scientific journals (Class A or B in the ANVUR classification); - essays in collective volumes; - brief essays, critical notes, editorships; 4) Other qualifications: Advanced Training Courses Degrees (*corsi di perfezionamento e/o di specializzazione e/o di Alta Formazione*); Masters in disciplines related to the research themes of the PhD Programme; PhD title; Additional Master's degree in disciplines related to the research themes of the Phd Programme; Grants, Fellowships, Awards; Research activity in scientific institutions; Teaching activity in academic institutions; Study experiences abroad; Internships, Traineeships and professional experiences related to the research themes of the PhD programme; Title of *cultore della materia* or member of examination committees in academic institutions.
Exam Syllabus	The comparative assessment will be based on the evaluation of the candidate's qualifications, the research project and the interview designed to assess the skills and knowledge required for admission to the PhD programme. The interview will evaluate in particular: Argumentative and analytical skills with regard to the presentation of the research project; knowledge of the state-of-the-art and historiographic context related to the research project; Foreign language proficiency
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): *L'industria dell'energia in Italia nella seconda metà del Novecento: Genova all'avanguardia e il caso Ansaldo.*
Information on references	Letters of refence are not required and, if eventually received, will not be taken into account for the evaluation.

Foreign Languages	The interview will test the candidate's knowledge of one of these languages: English, French, German or Spanish The candidate can choose one of these languages for the interview: Italian, English, French, German or Spanish.
Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6) Months to be spent abroad: 0

Course: HISTORY, ART HISTORY AND ARCHEOLOGY

Curriculum: ART HISTORY (CODE 9973)

Course Coordinator: Valenti Paola	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)	
Places: 12 (°) – **Grants**: 10 (*)	

(*) 6 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00
(*) 1 grant funded within D.M. 118 del 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001490006)
(*) 1 grant funded within D.M. 118 del 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001490006)
(*) 1 grant funded within D.M. 118 del 2.3.2023 (Patrimonio culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001490006)
(*) 1 grant funded by Fondazione Intesa San Paolo Onlus, under condition of the approval of funding by Fondazione Intesa Sanpaolo Onlus; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00
(°) 2 places reserved to employees of ETT Spa
 	
Grants (6) funded by Università degli Studi di Genova refer to the doctoral research course in its entirety and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list.
 	
Grants (3) funded within D.M. 118/2023 refer to the following curricula:
   -   Grant Dottorati di ricerca PNRR refers to both the CURRICULA OF ARCHEOLOGY AND HISTORY
   -   Grant Dottorati per la Pubblica Amministrazione refers only to the CURRICULUM OF ART HISTORY
   -   Grant Dottorati per il Patrimonio Culturale refers only to the CURRICULUM OF ART HISTORY
 	
Grant funded by Fondazione Intesa San Paolo Onlus refers only to the CURRICULUM OF ART HISTORY.
 	
Places (2) reserved to employees of ETT Spa refers only to the CURRICULUM OF ART HISTORY.
 	
N.B.: APPLICANTS MUST SPECIFY ON THE PROJECT TITLE PAGE WHICH TYPE OF GRANT THEY INTEND TO APPLY FOR.	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	The interview of admitted candidates will take place at the University of Genova, via Balbi 2-4, on 27 July 2023, at 9.00 am (CET); only admitted candidates living abroad will be permitted to connect remotely (using Microsoft TEAMS). Further information will be provided via e-mail after 21 July 2023.
Further information on how to present qualifications/publications	Curriculum vitae, qualifications, Master Thesis, publications and Research Project must be included in pdf format, as attachments to the application. Only the qualifications and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the Master's degree, which will be assessed even if previous) will be assessed. Qualifications and publications must be congruent with the research themes of the PhD Programme. Qualifications include: 1) Master's Degree (*Laurea Magistrale* or *quadriennale (vecchio ordinamento)* or an equivalent degree; 2) Copy of the MA dissertation (plus an abstract of 10.000 characters); 3) Scientific Publications, consistent with the research themes of the PhD programme: - books; - articles in scientific journals (Class A or B in the ANVUR classification); - essays in collective volumes; - brief essays, critical notes, editorships; 4) Other qualifications: Advanced Training Courses Degrees (*corsi di perfezionamento e/o di specializzazione e/o di Alta Formazione*); Masters in disciplines related to the research themes of the PhD Programme; PhD title; Additional Master's degree in disciplines related to the research themes of the Phd Programme; Grants, Fellowships, Awards; Research activity in scientific institutions;

	Teaching activity in academic institutions; Study experiences abroad; Internships, Traineeships and professional experiences related to the research themes of the PhD programme; Title of *cultore della materia* or member of examination committees in academic institutions.
Exam Syllabus	The comparative assessment will be based on the evaluation of the candidate's qualifications, the research project and the interview designed to assess the skills and knowledge required for admission to the PhD programme. The interview will evaluate in particular: • Argumentative and analytical skills with regard to the presentation of the research project; knowledge of the state-of-the-art and historiographic context related to the research project; • Foreign language proficiency
Research Themes	Research Themes are published on the website of the Phd Programme: https://dafist.unige.it/node/1057 Research Theme for the position funded by the PNRR D.M. 118/2023 *Dottorati per Pubbliche Amministrazioni*: *The MuDA - Museo Diffuso Albisola as an instrument of social cohesion and inclusiveness: strategies for the active involvement of citizenship in the increase and diversification of narratives for the cultural and museum heritage of the Municipality of Albissola Marina.* Research Theme for the position funded by the PNRR D.M. 118/2023 *Dottorati per il Patrimonio Culturale*: *Philosophical and art-historical perspectives on the relationship between knowledge and experience in the aesthetic appreciation of cultural heritage, with a focus on the variability of experiences according to different audiences, the normative constraints that works of art impose on aesthetic appreciation, and the resulting issues of inclusivity. The research will be conducted in the framework of the project PEA - The Philosophy of Experiential Artifacts, Horizon Europe ERCStg 2021 G.A. no. 101040535,* https://pea.unige.it/ The research theme of the grant awarded sub condicione of Intesa San Paolo funding (°*) is as follows*: The memory of urban peripheries: stories and images for a virtual museum. The project, which is being promoted in collaboration with the Doctorate in Digital Humanities of the University of Genoa, intends to promote a reflection on the complexity that lies behind the concept of redevelopment of urban suburbs by reasoning around the concept of loss, which is inevitably inherent to the process of 'beautification': loss of industrial structures and machinery and the related 'knowledge'; loss of architectural and urban testimonies linked to a specific, albeit unsuccessful, modernist vision of the city; loss of social relations, even dramatic ones, made up of balances and imbalances.* The research topics for the two positions reserved for employees of ETT Spa (°) are as follows: *- Virtual reality and 3D reconstruction as simulation tools for restoration work* *- The potential of digital technology for the conservation, cataloguing and valorisation of cultural heritage.*
Information on references	Letters of refence are not required and, if eventually received, will not be taken into account for the evaluation.
Foreign Languages	The interview will test the candidate's knowledge of one of these languages: English, French, German or Spanish The candidate can choose one of these languages for the interview: Italian, English, French, German or Spanish.
Further Information	For further information of this curriculum, send an email to: paola.valenti@unige.it

Course: HISTORY, ART HISTORY AND ARCHEOLOGY

Curriculum: ARCHEOLOGY (CODE 9974)

Course Coordinator: Valenti Paola	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)	
Places: 12 (°) – **Grants**: 10 (*)	

(*) 6 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00

(*) 1 grant funded within D.M. 118 del 2.3.2023 (Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001490006)

(*) 1 grant funded within D.M. 118 del 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001490006)

(*) 1 grant funded within D.M. 118 del 2.3.2023 (Patrimonio culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001490006)

(*) 1 grant funded by Fondazione Intesa San Paolo Onlus, under condition of the approval of funding by Fondazione Intesa Sanpaolo Onlus; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00

(°) 2 places reserved to employees of ETT Spa

Grants (6) funded by Università degli Studi di Genova refer to the doctoral research course in its entirety and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list.

Grants (3) funded within D.M. 118/2023 refer to the following curricula:
- Grant Dottorati di ricerca PNRR refers to both the CURRICULA OF ARCHEOLOGY AND HISTORY
- Grant Dottorati per la Pubblica Amministrazione refers only to the CURRICULUM OF ART HISTORY
- Grant Dottorati per il Patrimonio Culturale refers only to the CURRICULUM OF ART HISTORY

Grant funded by Fondazione Intesa San Paolo Onlus refers only to the CURRICULUM OF ART HISTORY.

Places (2) reserved to employees of ETT Spa refers only to the CURRICULUM OF ART HISTORY.

N.B.: APPLICANTS MUST SPECIFY ON THE PROJECT TITLE PAGE WHICH TYPE OF GRANT THEY INTEND TO APPLY FOR.

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	The interview of admitted candidates will take place at the University of Genova, via Balbi 2-4, on 27 July 2023, at 9.00 am (CET); only admitted candidates living abroad will be permitted to connect remotely (using Microsoft TEAMS). Further information will be provided via e-mail after 21 July 2023.
Further information on how to present qualifications/publications	Curriculum vitae, qualifications, Master Thesis, publications and Research Project must be included in pdf format, as attachments to the application. Only the qualifications and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the Master's degree, which will be assessed even if previous) will be assessed. Qualifications and publications must be congruent with the research themes of the PhD Programme. Qualifications include: 1) Master's Degree (*Laurea Magistrale* or *quadriennale (vecchio ordinamento)* or an equivalent degree; 2) Copy of the MA dissertation (plus an abstract of 10.000 characters); 3) Scientific Publications, consistent with the research themes of the PhD programme: - books; - articles in scientific journals (Class A or B in the ANVUR classification); - essays in collective volumes; - brief essays, critical notes, editorships; 4) Other qualifications: Advanced Training Courses Degrees (*corsi di perfezionamento e/o di specializzazione e/o di Alta Formazione*); Masters in disciplines related to the research themes of the PhD Programme; PhD title; Additional Master's degree in disciplines related to the research themes of the Phd Programme; Grants, Fellowships, Awards; Research activity in scientific institutions;

	Teaching activity in academic institutions; Study experiences abroad; Internships, Traineeships and professional experiences related to the research themes of the PhD programme; Title of *cultore della materia* or member of examination committees in academic institutions.
Exam Syllabus	The comparative assessment will be based on the evaluation of the candidate's qualifications, the research project and the interview designed to assess the skills and knowledge required for admission to the PhD programme. The interview will evaluate in particular: • Argumentative and analytical skills with regard to the presentation of the research project; knowledge of the state-of-the-art and historiographic context related to the research project; • Foreign language proficiency
Research Themes	Research Themes are published on the website of the Phd Programme: https://dafist.unige.it/node/1057 Research Theme for the position funded by the PNRR D.M. 118/2023 *Dottorati di ricerca PNRR*: *Andora Borgo Castello: Use, transformation, abandonment and patrimonialisation practices of the houses, land holdings and resources of a medieval village (15th-19th century).* *Census and analysis of archive sources, cartographic and cadastral surveys, comparison with data from archaeological and topographical surveys 1988/2023, carried out as part of the PNRR Andora Borgo Castello project.*
Information on references	Letters of refence are not required and, if eventually received, will not be taken into account for the evaluation.
Foreign Languages	The interview will test the candidate's knowledge of one of these languages: English, French, German or Spanish The candidate can choose one of these languages for the interview: Italian, English, French, German or Spanish.
Further Information	For further information on this curriculum, send an email to: fabrizio.benente@unige.it

Course: STRATEGIC ENGINEERING AND DECISION METHODS (CODICE 9975)

Course Coordinator: Sciomachen Anna Franca	
Department of Economics (Dipartimento di Economia – DIEC)	
Places: 4 – **Grants**: 4 (*)	
(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (*) 1 grant funded within D.M. 118 dated 2.3.2023 (Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001500006) (*) 1 grant funded by Ascom Servizi Srl Unip (IM), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	**Tuesday 26th July 2023, 9.30 a.m.** [1] at Department of Economics (DIEC), Genoa University, Genoa. In case of certified impossibility to be in presence, the interviews may also take place on-line with a Skype or Teams connection, video included to check identity.
Further information on how to present qualifications/publications	In the presentation of the curriculum vitae, it is important to highlight, as the following aspects will be used as evaluative parameters: publications (e.g., International Journals, International Conferences, Book Chapters), Master's Degree grade (or equivalent title), work experience and skills acquired. A research project proposal (other than the Master's thesis) must be attached and will be an integral part of the candidate's evaluation. In the research project it is important to highlight, as the following aspects will be used as evaluation parameters: Relevance to the research topics that appear in the call for papers, Originality, Method of execution, Feasibility, Clarity of exposition. The presentation of the research project, which should not exceed 5 pages, should identify the logical and methodological approach, research objectives and a preliminary state of the art.
Exam Syllabus	The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research problems. In addition, the interview will also focus on the themes of the research project, inherent to the listed research themes, presented by the candidate.
Research Themes	Skills related to SEDEM include all those disciplines that can support decision makers, and combine the rationality of quantitative methods with the qualitative understanding of human decision making. Therefore, the committee will test the aptitude and interest in quantitative sciences applied to the development of the combined use of modeling, simulation, data analysis and artificial intelligence in a closed loop with Big Data for the analysis of complex systems. The required skills are therefore transdisciplinary, the fields of application of decision-making methods being multiple. Among them, of greatest interest for the PhD in SEDEM are: logistics and transport, industry and industrial plants, energy generation and management, green transition, safety and security, autonomous vehicles, humanitarian aid management, and public administration. Exclusively for scholarship related to the call D.M. 118 dated 2.3.2023 (Doctoral Action for Public Administration) the proposed research project must be focused on the analysis of PA data in support of evidence-based policy, with particular reference to local governments such as municipalities and regions. The focus of the research program should be on the treatment and processing of big data available to local PA, aiming to address and resolve issues related to the fragmentation of the information system and the sourcing of data from different fragmented and unconnected information sub-systems, as well as issues related to heterogeneity of data formats and techniques for anonymization of sensitive data in compliance with privacy regulations. The focus of the project should also be on the use of algorithms and models, including artificial intelligence, useful for preparing local policy decision support systems, addressing the issue of quality of life in urban centers and economic and social inclusion. Exclusively for the grant funded by Ascom Servizi Srl Unip, the research project must focus on the analysis of economic-statistical data aimed at the implementation of territorial areas. The project intends to investigate issues relating to the planning and management of activities for business services. The focus of the project must also be on the use of algorithms and models, including artificial intelligence, useful for preparing decision support systems. For more detailed information see the following web address: https://sedem.phd.unige.it/

Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. The referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following addresses: sciomach@economia.unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications. The candidates' aptitude for scientific research must emerge from the contents of the reference letters.
Foreign Languages	English
Further Information	During the three-year period (and, preferably, during the second year) doctoral students will have to spend abroad a period of the total duration of at least 6 months (possibly also non-consecutive, but in any case - for each fraction - of adequate consistency) to carry out in-depth activities in their respective fields of research. The foreign universities with which co-tutorial collaboration is in operation are: • IMT Ecole Des Mines de Ales, France (PhD in *Information Structures Systems*), • Óbuda University, Hunghery (PhD in *Applied Informatics and Applied Mathematics*), • Hellenic Mediterranean University, Greece (PhD in *Energy and Computer Engineering*).

[1] Information updated following communication of the course coordinator dated 21.06.2022

Course: EUROPEAN STUDIES – Italian national doctorate [1]

Dottorato di "interesse nazionale" in convenzione con Università degli Studi di BOLOGNA, Università degli Studi "G. d'Annunzio" CHIETI-PESCARA, UKE - Università Kore di ENNA, Università degli Studi di FOGGIA, Università degli Studi INSUBRIA Varese-Como, Università degli Studi di MESSINA, Università degli Studi di MILANO, Università degli Studi del MOLISE, Università degli Studi di PALERMO, Università per Stranieri di PERUGIA, Sapienza Università di ROMA, Università degli Studi di ROMA "Tor Vergata", Università degli Studi di SIENA, Università per Stranieri di SIENA, Università degli Studi di TORINO, Università degli Studi di UDINE, Università degli Studi di PERUGIA, Università degli Studi di TORINO, Università degli Studi di UDINE, Università degli Studi di Napoli Federico II

Curriculum: HISTORY OF THE IDEA OF EUROPE AND OF EUROPEAN INTEGRATION (CODE 9976)

Course Coordinator: Guasconi Maria Eleonora
Scienze politiche e internazionali (DiSPI)
Places: 20 – **Grants**: 20 (*) [3]
The research projects of the universities can be viewed under grants details at: https://studieuropei.dottorato.unige.it/borse39_storia [2] (*) 1) 1 grant funded by the associated parties (Università degli Studi di Bologna); the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00; 2) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Chieti, field: Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 3) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Enna Kore, field: Patrimonio culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006) 4) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Genova, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 5) 1 grant funded within D.M. 118 dated 2.3.2023 (Università dell'Insubria, field: Pubblica amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 6) 1 grant funded within D.M. 118 dated 2.3.2023 (Università dell'Insubria, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 7) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Messina, field: Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 8) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Messina, field: Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 9) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Milano, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 10) 1 grant funded within D.M. 118 dated 2.3.2023 (Università del Molise, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 11) 1 grant funded by the associated parties (Università degli Studi di Palermo); the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00; 12) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Perugia, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 13) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Roma La Sapienza, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 14) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Roma La Sapienza, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 15) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Roma Tor Vergata, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 16) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Siena, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 17) 1 grant funded by the associated parties (Università per stranieri di Siena); the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00; 18) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Torino, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by

the recipient, is € 16.500,00 (CUP D32B23001510006);

19) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Udine, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006);

20) 1 grant funded by Fondazione Intesa San Paolo Onlus, under condition of the approval of funding by Fondazione Intesa Sanpaolo Onlus; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 - Research project: "Sport and European Citizenship" [3]

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	**19/07/2023 at 9.00 a:m** online on the platform Teams. The code to access the platform will be published after 30/06/2023 on the PhD website: https://studieuropei.dottorato.unige.it/ [2]
Further information on how to present qualifications/publications	With the application, applicants must enclose their curriculum vitae, duly signed, showing their qualifications, any publications deemed useful for the evaluation, and a research project consistent with the Research Topics of the chosen PhD curriculum. The applicant may indicate two preferences of location and type of fellowship. The research project should indicate objectives, method and expected results of the research, as well as brief bibliographical indications, and should not exceed 15,000 characters (excluding spaces). The applicant may indicate two preferences of location and type of fellowship. Foreign candidates are requested to have a certified knowledge of Italian language level B2. [2]
Exam Syllabus	The interview will focus on the research project and publications submitted by the applicant and the research topics of the applicant's chosen curriculum. Foreign language proficiency will be ascertained at the end of the interview.
Research Themes	- History of the idea of Europe - History of the European integration process - History of political doctrines in relation to the European integration process - History of the European federalist movement - History of European institutions - History of euroskeptic political movements - History of the socioeconomic dynamics underlying the European integration process
Information on references	Letters of reference are not required. Their submission, if any, will not be considered by the evaluation committee.
Foreign Languages	English
Further Information	For more information, including specific reference to the titles and themes of the grants, applicants may consult the website studieuropei.dottorato.unige.it or contact via email: studieuropei.dottorato@unige.it

[1] Information updated ex officio

[2] Information updated following communication of the course coordinator dated 19.06.2022

[3] 1 position with grant following the participation to the call by Fondazione Intesa San Paolo onlus, initiative "Dottorati in discipline umanistiche" - 39° Ciclo – academic year 2023-2024

Course: EUROPEAN STUDIES – Italian national doctorate [1]

Dottorato di "interesse nazionale" in convenzione con Università degli Studi di BOLOGNA, Università degli Studi "G. d'Annunzio" CHIETI-PESCARA, UKE - Università Kore di ENNA, Università degli Studi di FOGGIA, Università degli Studi INSUBRIA Varese-Como, Università degli Studi di MESSINA, Università degli Studi di MILANO, Università degli Studi del MOLISE, Università degli Studi di PALERMO, Università per Stranieri di PERUGIA, Sapienza Università di ROMA, Università degli Studi di ROMA "Tor Vergata", Università degli Studi di SIENA, Università per Stranieri di SIENA, Università degli Studi di TORINO, Università degli Studi di UDINE, Università degli Studi di PERUGIA, Università degli Studi di TORINO, Università degli Studi di UDINE, Università degli Studi di Napoli Federico II

Curriculum: EUROPEAN ECONOMIC AND SOCIAL POLICIES (CODE 9977)

Course Coordinator: Guasconi Maria Eleonora	
Scienze politiche e internazionali (DiSPI)	
Places: 3 – **Grants**: 3 (*)	
The research projects can be viewed under grants details at: https://studieuropei.dottorato.unige.it/borse39_politiche [2] (*) 1) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Genova, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006); 2) 1 grant funded within D.M. 117 dated 2.3.2023 (co-funded by A:Li.Sa. Azienda Ligure Sanitaria), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001690008); 3) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Genova - phD in Economics, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	**19/07/2023 at 9.00 a:m** online on the platform Teams. The code to access the platform will be published after 30/06/2023 on the PhD website: https://studieuropei.dottorato.unige.it/ [2]
Further information on how to present qualifications/publications	With the application, applicants must enclose their curriculum vitae, duly signed, showing their qualifications, any publications deemed useful for the evaluation, and a research project consistent with the Research Topics of the chosen PhD curriculum. The applicant may indicate two preferences of type of fellowship.The research project should indicate objectives, method and expected results of the research, as well as brief bibliographical indications, and should not exceed 15,000 characters (excluding spaces). Foreign candidates are requested to have a certified knowledge of Italian language level B2. [2]
Exam Syllabus	The interview will focus on the research project and publications submitted by the applicant and the research topics of the applicant's chosen curriculum. Foreign language proficiency will be ascertained at the end of the interview.
Research Themes	- European economic policies - European social policies - Public policy evaluation - European economic governance - Gender equality - Economy and Institutions - Development cooperation
Information on references	Letters of reference are not required. Their submission, if any, will not be considered by the evaluation committee.
Foreign Languages	English
Further Information	For more information, including specific reference to the titles and themes of the grants, applicants may consult the website studieuropei.dottorato.unige.it or contact via email: studieuropei.dottorato@unige.it

[1] Information updated ex officio
[2] Information updated following communication of the course coordinator dated 19.06.2022

Course: EUROPEAN STUDIES – Italian national doctorate [1]

Dottorato di "interesse nazionale" in convenzione con Università degli Studi di BOLOGNA, Università degli Studi "G. d'Annunzio" CHIETI-PESCARA, UKE - Università Kore di ENNA, Università degli Studi di FOGGIA, Università degli Studi INSUBRIA Varese-Como, Università degli Studi di MESSINA, Università degli Studi di MILANO, Università degli Studi del MOLISE, Università degli Studi di PALERMO, Università per Stranieri di PERUGIA, Sapienza Università di ROMA, Università degli Studi di ROMA "Tor Vergata", Università degli Studi di SIENA, Università per Stranieri di SIENA, Università degli Studi di TORINO, Università degli Studi di UDINE, Università degli Studi di PERUGIA, Università degli Studi di TORINO, Università degli Studi di UDINE, Università degli Studi di Napoli Federico II

Curriculum: EUROPEAN ECONOMIC AND SOCIAL POLICIES (CODE 9978)

Course Coordinator: Guasconi Maria Eleonora	
Scienze politiche e internazionali (DiSPI)	
Places: 3 – **Grants**: 3 (*)	

(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of **FINPRO Liguria**, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243.

Research project: Project to re-evaluate mutual aid societies as social and health care units, emerging problems and needs in the area

(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of **Coseva Società cooperativa**, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243.

Research project: Strategic foresight, organization and process optimization in a business services company from a transnational perspective between Italy and France

(*) 1 grant funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** in collaboration and with the contribution of **CNA Servizi**, under condition of the project and funding approval; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.243.

Research project: New business needs in the European context between digitalization, artificial intelligence and female entrepreneurship.

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND EXAM • Assessment of qualifications/publications and the curriculum vitae et studiorum • Written test (research project) • Interview that includes the description of the candidate's research area of interest, also on the basis of previous activities stated in his/her scientific professional curriculum
Interview	**19/07/2023 at 9.00 a:m** online on the platform Teams. The code to access the platform will be published after 30/06/2023 on the PhD website: https://studieuropei.dottorato.unige.it/ [2]
Further information on how to present qualifications/publications	With the application, applicants must enclose their curriculum vitae, duly signed, showing their qualifications, any publications deemed useful for the evaluation, and a research project consistent with the Research Topics of the chosen PhD curriculum. The research project should indicate objectives, method and expected results of the research, as well as brief bibliographical indications, and should not exceed 15,000 characters (excluding spaces). Foreign candidates are requested to have a certified knowledge of Italian language level B2. [2]
Exam Syllabus	The interview will focus on the research project and publications submitted by the applicant and the research topics of the applicant's chosen curriculum. Foreign language proficiency will be ascertained at the end of the interview.
Research Themes	Research project for grant within PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f): - Project to re-evaluate mutual aid societies as social and health care units, emerging problems and needs in the area; - Strategic foresight, organization and process optimization in a business services company from a transnational perspective between Italy and France; - New business needs in the European context between digitalization, artificial intelligence and female entrepreneurship.
Information on references	Letters of reference are not required. Their submission, if any, will not be considered by the evaluation committee.
Foreign Languages	English

Further Information	Further information about commitments and conditions of the grants funded within **PROGRAMMA REGIONALE FONDO SOCIALE EUROPEO+ 2021-2027 PRIORITÀ 2 - ISTRUZIONE E FORMAZIONE - ESO 4.6 (OS-f)** are available in the Notice of competition (article 6, paragraph 6)
	Months to be spent abroad: 0

[1] Information updated ex officio
[2] Information updated following communication of the course coordinator dated 19.06.2022

Course: EUROPEAN STUDIES – Italian national doctorate [1]

Dottorato di "interesse nazionale" in convenzione con Università degli Studi di BOLOGNA, Università degli Studi "G. d'Annunzio" CHIETI-PESCARA, UKE - Università Kore di ENNA, Università degli Studi di FOGGIA, Università degli Studi INSUBRIA Varese-Como, Università degli Studi di MESSINA, Università degli Studi di MILANO, Università degli Studi del MOLISE, Università degli Studi di PALERMO, Università per Stranieri di PERUGIA, Sapienza Università di ROMA, Università degli Studi di ROMA "Tor Vergata", Università degli Studi di SIENA, Università per Stranieri di SIENA, Università degli Studi di TORINO, Università degli Studi di UDINE, Università degli Studi di PERUGIA, Università degli Studi di TORINO, Università degli Studi di UDINE, Università degli Studi di Napoli Federico II

Curriculum: MULTILEVEL GOVERNANCE AND FUNDAMENTAL RIGHTS (CODE 9979)

Course Coordinator: Guasconi Maria Eleonora	
Scienze politiche e internazionali (DiSPI)	
Places: 9 – **Grants**: 9 (*)	
The research projects can be viewed under grants details at: https://studieuropei.dottorato.unige.it/borse39_diritti [2]	

(*)
1) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Foggia, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006);
2) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Genova, field: Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006);
3) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Messina, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006);
4) 1 grant funded within D.M. 118 dated 2.3.2023 (Università per Stranieri di Perugia, field: Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006);
5) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Torino, field: Ricerca PNRR), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006);
6) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Udine, field: Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006);
7) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Napoli Federico II, field: Pubblica Amministrazione, under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006);
8) 1 grant funded within D.M. 117 dated 2.3.2023 (co-funded by: MITO srl Distribuzione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001690008).
9) 1 grant funded within D.M. 118 dated 2.3.2023 (Università di Enna Kore, field: Patrimonio culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 (CUP D32B23001510006);

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	**19/07/2023 at 9.00 a:m** online on the platform Teams. The code to access the platform will be published after 30/06/2023 on the PhD website: https://studieuropei.dottorato.unige.it/ [2]
Further information on how to present qualifications/publications	With the application, applicants must enclose their curriculum vitae, duly signed, showing their qualifications, any publications deemed useful for the evaluation, and a research project consistent with the Research Topics of the chosen PhD curriculum. The applicant may indicate two preferences of location and type of fellowship. The research project should indicate objectives, method and expected results of the research, as well as brief bibliographical indications, and should not exceed 15,000 characters (excluding spaces). Foreign candidates are requested to have a certified knowledge of Italian language level B2. [2]
Exam Syllabus	The interview will focus on the research project and publications submitted by the applicant and the research topics of the applicant's chosen curriculum. Foreign language proficiency will be ascertained at the end of the interview.
Research Themes	- Protection of fundamental rights in the European area - Economic governance and supranational integration processes - Federalizing process and interordination relations in multilevel systems - Fundamental rights and new technologies - Political participation, political representation and fundamental rights - Security and rights - Environment, sustainability and fundamental rights
Information on references	Letters of reference are not required. Their submission, if any, will not be considered by the

	evaluation committee.
Foreign Languages	English
Further Information	For more information, including specific reference to the titles and themes of the grants, applicants may consult the website studieuropei.dottorato.unige.it or contact via email: studieuropei.dottorato@unige.it

[1] Information updated ex officio

[2] Information updated following communication of the course coordinator dated 19.06.2022