Disclaimer: Please note that only the Italian version of the present call for applications, issued with Rector's Decree No. 1898 of 10.05.2021, 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 in: ARCHITECTURE AND DESIGN

Curriculum: ARCHITECTURE (CODE 8633)

Coordinator: Gausa Navarro Manuel	
Department of Architecture and Design (Dipartimento di Architettura e Design – DAD)	
Places: 5 (°) – **Grants:** 3 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by DAD, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (°°)	
(°) 2 places for graduates who have a grant from abroad.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 9.00 Online interview
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 http://www.addgenova.org/DSA/it https://architettura.unige.it/

(°°) information updated due to factual error

Course in: ARCHITECTURE AND DESIGN

Curriculum: DESIGN (CODE 8634)

Coordinator: Gausa Navarro Manuel	
Department of Architecture and Design (Dipartimento di Architettura e Design – DAD)	
Places: 3 – **Grants:** 3 (*)	
(*) 3 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	6.7.2021 – 9.00 Online interview
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 http://www.addgenova.org/DSA/it https://architettura.unige.it/

Course in: 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 8635)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 9 – **Grants:** 9 (*) (°°)	
(*) 9 grants funded by Foundation of 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: http://phd.dibris.unige.it/biorob/index.php/how-to-apply) ; - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: http://phd.dibris.unige.it/biorob/index.php/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 http://phd.dibris.unige.it/biorob/index.php/how-to-apply.
Research Themes	1 Robot-assisted catheterization systems 2. Sensing and automation in robotic microsurgery 3. AI (deep learning) systems for medical image analysis and diagnosis 4. Virtual reality and machine learning for falling simulation and detection 5. Data processing using ML techniques for fall detection and prediction 6. Robot perception &manipulation for grapevines pruning/harvesting using mmr 7. Robot learning for assisting human daily life activities using bimanual mmr 8. Locomotion planning and control of a hybrid legged/wheeled robot platform 9. Impedance regulation principles for harsh and agile physical interaction 10. 3D perception, path planning, and mapping for mobile robot navigation 11. Agile robot design and actuation principles 12. Efficient robot design and actuation principles 13. Modelling and control of modular robots 14. HRC control of a hybrid legged/wheeled manipulation platform 15. Skippy: a highly athletic monopedal robot 16. Design of a cable-driven hyper-redundant robot for industrial inspection 17. Design of gravity compensation mechanisms for long-reach manipulators 18. Reconfigurable robotic systems for manipulation of deformable materials 19. Design and development of non-rigid lightweight dexterous robot manipulator 20. Development of reconfigurable multi-finger grippers for in-hand manipulation 21. AI optimized grippers for flexible material manipulation 22. Development of pneumatic robot 23. Development of fully autonomous i&m robot for infrastructures 24. Development of high speed manipulator for fast pick&place 25. Visuo-haptic integration for object manipulation and perception 26. Learning body-schema for self-perception and tool use 27. Distributed AI in sensor networks and robotics platforms 28. Data-efficient object detection and segmentation learning for robotics 29. Computer vision for legged robots (quadrupeds) 30) Rethinking Robot Design with Additive Manufacturing (°) For further details check: http://phd.dibris.unige.it/biorob/index.php/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: http://phd.dibris.unige.it/biorob/index.php/how-to-apply https://www.iit.it/phd - The template for the research project can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply - The candidate summary profile form can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/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

(°) Information updated following communication of the course coordinator dated 14.05.2021
(°°) 2 grants added following the proposal to amend the agreement dated 11.06.2021.

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

Curriculum: BIOENGINEERING (CODE 8636)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 6 (°) – **Grants:** 5 (*)	
(*) 5 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(°) 1 place reserved to employee of Associazione Scuola di Robotica	
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: http://phd.dibris.unige.it/biorob/index.php/how-to-apply) ; - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: http://phd.dibris.unige.it/biorob/index.php/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 http://phd.dibris.unige.it/biorob/index.php/how-to-apply.
Research Themes	The following research themes are proposed: 1. Sleep maturation in preterm infants 2. Translational neurosensory engineering 3. Decoding the neurophysiology of locomotor control in Parkinson's disease 4. Bi-directional body machine interface for assistance and rehabilitation 5. New technologies in medical simulation 6. Anthropomorphic technology for regaining motor or cognitive abilities: relationship between form and function from prosthetics to humanoid robotics 7. Closed-loop technologies for neuroengineering applications 8. Dynamic 3d tissue models 9. Development of a standardized natural language processing platform to support clinical researches 10. Design and realization of an inkjet printed micro-electrode array for neurophysiological applications 11. Brain-on-a-chip for precision medicine 12. In vitro interconnected brain regions coupled to multi-electrode arrays: towards a brain-on-a-chip 13. Development and characterization of biopolymeric nano formulations having antibacterial properties 14. Atomic force microscopy based techniques in medical diagnostics: new tools for translational medicine 15. Perceptual and motor issues in the development of interactive intelligence 16. Joint action in humans and robots 17. Unobtrusive wearable sensors for advanced biomedical applications (°) The detailed description of the research themes can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/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 link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply - The template for the research project can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply - The candidate summary profile form can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply For further information about the research themes please contact: Prof. Paolo Massobrio paolo.massobrio@unige.it

(°) Information updated following communication of the course coordinator dated 11.06.2021

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

Curriculum: BIONANOTECHNOLOGY (CODE 8637)

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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 (*)	
(*) 4 grants funded by Foundation of 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: http://phd.dibris.unige.it/biorob/index.php/how-to-apply) ; - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: http://phd.dibris.unige.it/biorob/index.php/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 http://phd.dibris.unige.it/biorob/index.php/how-to-apply.
Research Themes	The following research themes are proposed: 1. New developments in advanced light microscopy 2. Investigation of biomolecular processes with advance light microscopy 3. Smart biocomposites for drug delivery and active skin wound healing 4. Micro/Nano particle fabrication for drug delivery and theranostics The detailed description of the research themes can be found at the following links: http://phd.dibris.unige.it/biorob/index.php/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 link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply https://www.iit.it/phd - The template for the research project can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply - The candidate summary profile form can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply For further information about the research themes please contact: Dr. Giuseppe Vicidomini (IIT) giuseppe.vicidomini@iit.it

Course in: 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 8638)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 8 (°) – **Grants:** 7 (*)	
(*) 7 grants funded by Foundation of 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 to scholarship holders within the international mobility programme: H2020-MSCA-ITN-2020 – OptiVisT.	
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: http://phd.dibris.unige.it/biorob/index.php/how-to-apply) ; - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: http://phd.dibris.unige.it/biorob/index.php/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 http://phd.dibris.unige.it/biorob/index.php/how-to-apply.
Research Themes	The following research themes are proposed: 1 Enabling robots to understand and adapt to humans 2 Assessing and training visuo-haptic exploration 3 Trust and shared perception in cognitive robotics 4 Proactive memory in cognitive architectures for human robot interaction 5 Adaptation in cognitive architectures for human robot interaction 6 ERC Myspace position – cortical mechanisms of spatial representation in children with and without visual impairment 7 Predicting functional vision via multisensory interactions [Marie Sklodowska-Curie fellowship] 8 Development of new SSD for visually impaired individuals The detailed description of the research themes can be found at the following links: http://phd.dibris.unige.it/biorob/index.php/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 link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply https://www.iit.it/phd - The template for the research project can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply - The candidate summary profile form can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply For further information about the research themes please contact: Dr. Alessandra Sciutti (IIT) alessandra.sciutti@iit.it

Course in: 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 8639)

Coordinator: Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 5 (°) – **Grants:** 5 (*)	
(*) 3 grants funded by the University, 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.	
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: http://phd.dibris.unige.it/biorob/index.php/how-to-apply) ; - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: http://phd.dibris.unige.it/biorob/index.php/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 http://phd.dibris.unige.it/biorob/index.php/how-to-apply.
Research Themes	The following research themes are proposed: 1. Sensor-Based Control Of Robots For Human-Robot Cooperative Operations 2. Robot skin for contact processing and robot control 3. Multimodal Sensing for Robot Self-aware Control 4. Machine learning models for robot tactile sensing and perception 5. Robot manipulation of soft and flexible objects 6. Team of drones for periodic monitoring: an approach based on social drone sharing 7. Cooperation and Social Interaction with Autonomous Humanoids 8. Culture-Aware Artificial Intelligence and Embodied Intelligent Systems 9. Obstacle detection, tracking and avoidance in maritime environments 10. Advanced underwater robotic operations: cooperative control of an autonomous surface vehicle and a tethered remotely operated vehicle 11. Outlier robust state estimation methods for robotics and autonomous systems 12. Machine learning methods for active identification 13. Cognitive architectures for human-robot collaboration 14. Advanced robot manipulation skills acquired via human demonstrations 15. Robot cognitive architectures based on quantum computing 16. Speech-capable Augmented Reality avatars to assist humans in daily activities 17. Augmented Reality approaches in robot-assisted surgery 18. Robotics technologies for unstructured environments (in collaboration with LEONARDO Company) (°°) 19. Robotics and Applied Artificial Intelligence (in collaboration with LEONARDO Company) (°°) The detailed description of the research themes can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/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 link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply

	- The template for the research project can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply - The candidate summary profile form can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply For further information about the research themes please contact: Prof. Giorgio Cannata giorgio.cannata@unige.it

(°°) information updated following communication of the course coordinator dated 1.06.2021

Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE

Curriculum: BIOIMAGING (CODE 8640)

Coordinator: Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 2 – **Grants:** 2 (*) (°)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by Esaote Spa and DISSAL, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (°)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 – 2.00 pm online on the Teams platform "AMMISSIONE D.R. IN BIOTECNOLOGIE IN MEDICINA TRASLAZIONALE – XXXVII ciclo" with access code "mg8mmhr", for participation procedures and any connection tests, write to enrico.zeraschi@unige.it by 30 June 2021.
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	Molecular Bioimaging Biomedical imaging Computational bioimaging
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. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: rodolfo.quarto@unige.it. In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
Foreign Languages	English
Further Information	Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - rodolfo.quarto@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

(°) 1 grant added following the agreement dated 27.5.2021

Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE

Curriculum: CELLULAR AND MOLECULAR BIOTECHNOLOGIES (CODE 8641)

Coordinator: Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 – **Grants:** 1 (*)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 – 2.00 pm online on the Teams platform "AMMISSIONE D.R. IN BIOTECNOLOGIE IN MEDICINA TRASLAZIONALE – XXXVII ciclo" with access code "mg8mmhr", for participation procedures and any connection tests, write to enrico.zeraschi@unige.it by 30 June 2021.
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	Innovative diagnostics. Therapeutic treatments. New pharmaceutical products. Gene therapy. Cell therapies. Immunosuppressive therapies. Anticancer therapies.
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. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: rodolfo.quarto@unige.it In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
Foreign Languages	English
Further Information	Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - rodolfo.quarto@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 in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE

Curriculum: TRANSLATIONAL SURGERY (CODE 8642)

Coordinator: Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 – **Grants:** 1 (*)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 – 2.00 pm online on the Teams platform "AMMISSIONE D.R. IN BIOTECNOLOGIE IN MEDICINA TRASLAZIONALE – XXXVII ciclo" with access code "mg8mmhr", for participation procedures and any connection tests, write to enrico.zeraschi@unige.it by 30 June 2021.
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, specialist, anesthesiology and integrated diagnostic methodologies.
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. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: rodolfo.quarto@unige.it. In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
Foreign Languages	English
Further Information	Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - rodolfo.quarto@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 in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE

Curriculum: REGENERATIVE MEDICINE AND TISSUE ENGINEERING (CODE 8643)

Coordinator: Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 – **Grants:** 1 (*)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 – 2.00 pm online on the Teams platform "AMMISSIONE D.R. IN BIOTECNOLOGIE IN MEDICINA TRASLAZIONALE – XXXVII ciclo" with access code "mg8mmhr", for participation procedures and any connection tests, write to enrico.zeraschi@unige.it by 30 June 2021.
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 and capable of integrating molecules and cells biomaterials. Delivery of growth factors, cytokines and other pharmacologically active molecules. Immunology and transplant biology. Immunotherapy. Gene therapy.
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. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: rodolfo.quarto@unige.it In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
Foreign Languages	English
Further Information	Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - rodolfo.quarto@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 in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE

Curriculum: TRANSLATIONAL AND PRECISION MEDICINE (CODE 8644)

Coordinator: Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 3 – **Grants:** 3 (*) (°)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 2 grant funded by Ospedale Policlinico San Martino, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (°)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 – 2.00 pm online on the Teams platform "AMMISSIONE D.R. IN BIOTECNOLOGIE IN MEDICINA TRASLAZIONALE – XXXVII ciclo" with access code "mg8mmhr", for participation procedures and any connection tests, write to enrico.zeraschi@unige.it by 30 June 2021.
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	Diseases related to eye aging. Chronic degenerative pathologies. Cancer biology and innovative therapeutic approaches. Biological effects of the secretoma.
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. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: rodolfo.quarto@unige.it In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
Foreign Languages	English
Further Information	Coordinatore Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - rodolfo.quarto@unige.it Curriculum contact person (to whom to request scientific information): Prof. Lucia Del Mastro Policlinico San Martino Hospital - IRCCS - Tel. 0105558908 - lucia.delmastro@hsanmartino.it Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it

(°) 2 grants added following the resolution dated 26.5.2021

Course in: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING

Curriculum: FLUID DYNAMICS AND ENVIRONMENTAL ENGINEERING (CODE 8645)

Coordinator: Roberta Massabò	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale – DICCA)	
Places: 6 (°) – **Grants:** 4 (*)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28 (*) 1 grant funded by DICCA, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient (*) 1 grant funded by MIUR/DICCA, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient (*) 1 grant from IRETI SpA, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it. For CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have also to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more then 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into account for the calculation.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	14.7.2021 – 9.00 am at the Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale DICCA) Biblioteca Baldacci via Montallegro 1, Genova. Should there be a high number of candidates, the interviews will continue on the following 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. (°) **For CLOE COFUND**, interviews will take place on July 13, 2021, at 10.00 am (Rome) on Microsoft Teams
Further information on how to present qualifications/publications	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; 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, …) attached to the cv would be an asset.
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. (°) For CLOE COFUND PROJECT, further information on the submission of the applications are available on the project website at the following link https://cloe.dp.unige.it

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 include 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.
	(°) For the <u>CLOE COFUND PROJECT</u> the candidate has to choose one of the two proposed themes for the preparation of the research project:
	Research Theme 1 H2020-MSCA-COFUND2020: Hydrogeological risk analysis and mitigation by sustainable countermeasures and interdisciplinary approaches for the territory protection and the community resilience improvement;
	Research Theme 2 H2020-MSCA-COFUND2020: Decision support systems in fragile and orographically complex contexts subject to significant hydrogeological events
	Further information on research themes and on the project proposal structure are available on the project's website at the following link: https://cloe.dp.unige.it.
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, 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.
	(°) For the <u>CLOE COFUND PROJECT</u> it is possible to submit up to 3 reference letters to support the application through the above-mentioned methods.
Foreign Languages	English
Further Information	http://dottorato.dicca.unige.it/eng/
	Prof. Rodolfo Repetto rodolfo.repetto@unige.it
	(°) For the <u>CLOE COFUND PROJECT</u>, Prof.ssa Bianca Federici: bianca.federici@unige.it

Course in: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING

Curriculum: CHEMICAL, MATERIALS AND PROCESS ENGINEERING (CODE 8646)

Coordinator: Roberta Massabò	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale – DICCA)	
Places: 3 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	14.7.2021 – 9.00 am at the Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale DICCA) Biblioteca Baldacci via Montallegro 1, Genova. Should there be a high number of candidates, the interviews will continue on the following 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) 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) 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, …) attached to the cv would be an asset.
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	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 include 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.
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, 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 in: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING

Curriculum: STRUCTURAL AND GEOTECHNICAL ENGINEERING, MECHANICS AND MATERIALS (CODE 8647)

Coordinator: Roberta Massabò	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale – DICCA)	
Places: 3 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	14.7.2021 – 9.00 am at the Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale DICCA) Biblioteca Baldacci via Montallegro 1, Genova. Should there be a high number of candidates, the interviews will continue on the following 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 secreterial 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) 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, …) attached to the cv would be an asset.
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	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 include 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.
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 (°)

(°) Information updated following communication of the course coordinator dated 14.05.2021

Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION
In agreement with the University of Turin

Curriculum: ARTS, PERFORMING ARTS AND MULTIMEDIA TECHNOLOGIES (CODE 8649)

Coordinator: Adorni Giovanni	
Department of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)	
Places: 2 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	6.7.2021 – 10.00 am at Dipartimento di Lingue e Culture Moderne, University of Genoa, Genoa. The room will be notified one the web site of the phd course and the communication will be sent to all candidates admitted to the interview. The interview may also take place electronically if necessary due to health situation. Information on the interview will be published on the phd course website and the communication will be sent to all candidates admitted to the interview.
Further information on how to present qualifications/publications	Together with their qualifications, candidates must include a research project on Digital Humanities pertinent and consistent with the themes and objectives specified in the "Research themes" section. The project must be structured in the following sections: - title; - summary; - objectives of the research project; - analysis of existing literature on the research topic; - research problems to be addressed and to be answered; - methodologies that are expected to be used to achieve the objectives; - expected results at the end of the three-year research period. The project will be evaluated according to the following points: • clarity of objectives, hypotheses and methodological approach to research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • solid starting bibliographic bases. The candidate must also indicate potential foreign partner locations/research centers to possibly support the development of his research. The project must be max 4000 words long plus the bibliography.
Research Themes	1 - Figurative and performing arts with the use of virtual and augmented reality. Immersive and narrative tools and contents for architectural environments and wide territorial areas but also for social platforms. 2 - Didactic of the figurative and performing arts. Contents and spaces for virtual classrooms, to be used in the absence and presence of the teacher. Use of drawing, photography, video animation and storytelling in e-learning platforms.
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 Ph.D program at the following address: giovanni.adorni@unige.it, and copy to: micaela.rossi@unige.it and luisa.zito@unige.it. The name, status and service place of the referees chosen by the candidates must be also stated in their applications.
Foreign Languages	Candidates must show their knowledge of at least one foreign language, besides their mother tongue, chosen from English, French, Spanish and German. Foreign candidates must show their knowledge of Italian.
Further Information	The contact person in administration for the Ph.D. course is Mrs. Luisa Zito: luisa.zito@unige.it.

Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION
In agreement with the University of Turin

Curriculum: FOREIGN LANGUAGES, CULTURES AND DIGITAL TECHNOLOGIES (CODE 8650)

Coordinator: Adorni Giovanni	
Department of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)	
Places: 1 – **Grants:** 1 (*)	
(*) 1 grant funded by Università di Torino, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 17.500.	
At the end of the doctoral course, a joint qualification will be awarded by both the Universities of Genova and Turin.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 9.00 am at Dipartimento di Lingue e Letterature Straniere e Culture Moderne, University of Turin, Turin. The room will be notified one the web site of the phd course and the communication will be sent to all candidates admitted to the interview. The interview may also take place electronically if necessary due to health situation. Information on the interview will be published on the phd course website and the communication will be sent to all candidates admitted to the interview.
Further information on how to present qualifications/publications	Together with their qualifications, candidates must include a research project on Digital Humanities pertinent and consistent with the themes and objectives specified in the "Research themes" section. The project must be structured in the following sections: - title; - summary; - objectives of the research project; - analysis of existing literature on the research topic; - research problems to be addressed and to be answered; - methodologies that are expected to be used to achieve the objectives; - expected results at the end of the three-year research period. The project will be evaluated according to the following points: • clarity of objectives, hypotheses and methodological approach to research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • solid starting bibliographic bases. The candidate must also indicate potential foreign partner locations/research centers to possibly support the development of his research. The project must be max 4000 words long plus the bibliography.
Research Themes	1 - Information structure: contrastive linguistics, didactics and corpus-based approaches to the study of the information structure (German-Italian) 2 - Digital technologies for contrastive linguistics, with particular reference to syntax (German-Italian).
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 Ph.D program at the following address: giovanni.adorni@unige.it, and copy to: marcella.costa@unito.it and luisa.zito@unige.it. The name, status and service place of the referees chosen by the candidates must be also stated in their applications.
Foreign Languages	Candidates must show their knowledge of at least one foreign language, besides their mother tongue, chosen from English and French. Foreign candidates must show their knowledge of Italian.
Further Information	The contact person in administration for the Ph.D. course is Mrs. Luisa Zito: luisa.zito@unige.it.

Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION
In agreement with the University of Turin

Curriculum: LANGUAGES, CULTURES AND DIGITAL TECHNOLOGIES (CODE 8651)

Coordinator: Adorni Giovanni	
Department of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)	
Places: 3 – **Grants:** 3 (*)	
(*) 3 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	8.7.2021 – 10.00 am at Dipartimento di Lingue e Culture Moderne, University of Genoa, Genoa. The room will be notified one the web site of the phd course and the communication will be sent to all candidates admitted to the interview. The interview may also take place electronically if necessary due to health situation. Information on the interview will be published on the phd course website and the communication will be sent to all candidates admitted to the interview.
Further information on how to present qualifications/publications	Together with their qualifications, candidates must include a research project on Digital Humanities pertinent and consistent with the themes and objectives specified in the "Research themes" section. The project must be structured in the following sections: - title; - summary; - objectives of the research project; - analysis of existing literature on the research topic; - research problems to be addressed and to be answered; - methodologies that are expected to be used to achieve the objectives; - expected results at the end of the three-year research period. The project will be evaluated according to the following points: • clarity of objectives, hypotheses and methodological approach to research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • solid starting bibliographic bases. The candidate must also indicate potential foreign partner locations/research centers to possibly support the development of his research. The project must be max 4000 words long plus the bibliography.
Research Themes	1 - Digital technologies in support of linguistic research (lexicography, terminology, speech analysis, translation and interpretation, subtitling) and literary research (in a diachronic and synchronic perspective, on specific literary genres, on socio-literary issues, on intermediation): development of multimedia and network models and products, corpora analysis etc. 2 - Digital technologies to support language teaching (methodology for distance language education, MOOC, autonomous learning through technologies, Mobile-assisted language learning, Technology enhanced learning); digital tools for evaluation and verification (adaptive, remote tests, applications for the evaluation of texts in L2) and technologies for research on language learning (corpora of learners and survey methods, quantum / qualitative analysis supported by the computer). 3 - Computational linguistics for text analysis, information extraction, classification and interpretation of contents and their relationships, as a basis for the development of conversational interfaces, intelligent digital resources (e.g., MOOCs and intelligent texts), personalized learning paths, for linguistic simplification and the creation of annotated resources.

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 Ph.D program at the following address: giovanni.adorni@unige.it, and copy to: ilaria.torre@unige.it and luisa.zito@unige.it.
	The name, status and service place of the referees chosen by the candidates must be also stated in their applications.
Foreign Languages	Candidates must show their knowledge of at least one foreign language, besides their mother tongue, chosen from English, French, Spanish and German.
	Foreign candidates must show their knowledge of Italian.
Further Information	The contact person in administration for the Ph.D. course is Mrs. Luisa Zito: luisa.zito@unige.it.

Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION
In agreement with the University of Turin

Curriculum: LINGUISTICS, APPLIED LINGUISTICS AND ONOMASTICS (CODE 8652)

Coordinator: Adorni Giovanni	
Department of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)	
Places: 3 – **Grants:** 3 (*)	
(*) 3 grants funded by Università di Torino (the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 17.500), of which 1 grant funded within euoropean organization UNITA (http://univ-unita.eu/, http://www.erasmusplus.it/unita-universitas-montium-1-ateneo-italiano-a-guida-di-una-european-university/), alliance of 6 university of 5 european countries (Universidade de Beira Interior, Universidad de Zaragoza, Université de Pau et des Pays de l'Adour, Université Savoie Mont Blanc, Università di Torino, Universitatea de Vest din Timisoara).	
At the end of the doctoral course, a joint qualification will be awarded by both the Universities of Genova and Turin.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 2.00 pm Dipartimento di Lingue e Letterature Straniere e Culture Moderne, University of Turin, Turin. The room will be notified one the web site of the phd course and the communication will be sent to all candidates admitted to the interview. The interview may also take place electronically if necessary due to health situation. Information on the interview will be published on the phd course website and the communication will be sent to all candidates admitted to the interview.
Further information on how to present qualifications/publications	Together with their qualifications, candidates must include a research project on Digital Humanities pertinent and consistent with the themes and objectives specified in the "Research themes" section. The project must be structured in the following sections: - title; - summary; - objectives of the research project; - analysis of existing literature on the research topic; - research problems to be addressed and to be answered; - methodologies that are expected to be used to achieve the objectives; - expected results at the end of the three-year research period. The project will be evaluated according to the following points: • clarity of objectives, hypotheses and methodological approach to research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • solid starting bibliographic bases. The candidate must also indicate potential foreign partner locations/research centers to possibly support the development of his research. The project must be max 4000 words long plus the bibliography.
Research Themes	1 - Digital technologies supporting research in theoretical and applied linguistics. Particular attention will be paid to psycholinguistics and interfaces of different levels of analysis and linguistic abilities 2 - Linguistic variation and restructuring of the contemporary anthroponymic stock, also in relation to the new dimension of language contacts in the global world. Data definition and applications of digital technologies to the development of analysis and geospatial representation tools. 3 - [Research theme related to the scholarship within the European organization UNITA (http://univ-unita.eu/)] Data-driven e-learning solutions for the Digital Learning Environment of the Project UNITA Universitas Montium in order to increase the flexibility and adaptivity of training paths, to facilitate interactions between teachers and students and to promote educational success.

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 Ph.D program at the following address: giovanni.adorni@unige.it, and copy to: carla.marello@unito.it and luisa.zito@unige.it. The name, status and service place of the referees chosen by the candidates must be also stated in their applications.
Foreign Languages	Candidates must show their knowledge of at least two foreign languages chosen from English, French and German. Foreign candidates must show their knowledge of Italian.
Further Information	The contact person in administration for the Ph.D. course is Mrs. Luisa Zito: luisa.zito@unige.it.

Course in: LAW STUDIES

Curriculum: PHILOSOPHY OF LAW AND HISTORY OF LEGAL CULTURE
(CODE 8653)
(For CLOE COFUND project code 8740)

Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
Places: 3 (°) – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it. For CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have also to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more then 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into account for the calculation.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS QUALIFICATIONS/PUBLICATIONS AND INTERVIEW (**only for CLOE COFUND project**) (°°)
Interview	(°) For **CLOE COFUND project**, interviews of admitted candidates will take place on July 6, 2021, at 10.00 am (Rome), in modality 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 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. (*) For CLOE COFUND project, further information on the submission of the applications are available on the project website at the following link: https://cloe.dp.unige.it.
Exam Syllabus (°°)	Positions covered by Atheneum's grants Candidates must submit a research project (doc format, 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. (*) For CLOE COFUND project, further information on the selection procedures are available on the project website at the following link: https://cloe.dp.unige.it. According to the selection rules for the "Philosophy of Law and History of Legal Culture" curriculum, the research project shall have a maximum length of 10.000 characters, spaces included, on penalty of exclusion from the competition.
Research Themes	Research themes for the two positions covered by Atheneum's grants: (°°) - 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. (°) For the CLOE COFUND PROJECT the candidate has to choose one of the two proposed themes for the preparation of the research project: Research Theme H2020-MSCA-COFUND2020, project n. 1: Crowdlaw in the Service of Marginalized Communities Research Theme H2020-MSCA-COFUND2020, project n. 2: Theory of Legislation for Rural Democracy. Further information on research themes and on the project proposal structure are available on the project's website at the following link: https://cloe.dp.unige.it.
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, within the deadline established in the Call, directly to the following address: pierluigi.chiassoni@unige.it, stefania.vircillo@giuri.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. (°) For the COFUND CLOE project it is possible to submit up to 3 reference letters to support the application through the above-mentioned methods.
Foreign Languages	English, Spanish (°)For the COFUND CLOE project: English
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 Vircillo stefania.vircillo@giuri.unige.it (*) For the COFUND CLOE project H2020-MSCA-COFUND2020: Prof. Pierluigi Chiassoni (pierluigi.chiassoni@unige.it), Prof. Andrej Kristan (andrej.kristan@unige.it).

(°°) Information updated following communication of the course coordinator dated 13.05.2021

Course in: LAW STUDIES

Curriculum: INTERNATIONAL LAW (COMMERCIAL, EUROPEAN UNION AND INTERNATIONAL LAW) (CODE 8654)

Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
Places: 3 (°) – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved to employee of CNP UNICREDIT VITA S.P.A.	
Modalità	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – ore 9.00 am The interview will take place electronically (Teams videoconference). In order to ensure full publicity and the uniqueness of the session of the Evaluation Commission dedicated to interviews with candidates, the candidate will be considered absent if, due to problems not dependent on the commissioners' instrumentation, he is unable to connect and useful connection for your interview, during the same session.
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, French or Spanish.
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.
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: 55563@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 12 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@unige.it Administrative contact person: Dr. M. Stefania Lavezzo e-mail: 55563@unige.it

Course in: LAW STUDIES

Curriculum: PRIVATE LAW (LABOUR, PRIVATE, PRIVATE COMPARATIVE AND CIVIL PROCEDURAL LAW) (CODE 8655)

Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
Places: 2 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 – 4.00 pm The interview will take place electronically (Teams videoconference). In order to ensure full publicity and the uniqueness of the session of the Evaluation Commission dedicated to interviews with candidates, the candidate will be considered absent if, due to problems not dependent on the commissioners' instrumentation, he is unable to connect and useful connection for your interview, during the same session.
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
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 labor 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: 55563@unige.it. In the application for admission, candidates must specify the name, qualification and place of employment of the contact persons 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 commitee: Prof. Gisella De Simone gisella.desimone@unige.it Administrative contact person: Dott.ssa M. Stefania Lavezzo e-mail: 55563@unige.it

Course in: LAW STUDIES

Curriculum: PUBLIC LAW (ADMINISTRATIVE, CONSTITUTIONAL, CRIMINAL, CRIMINAL PROCEDURAL AND TAX LAW) (CODE 8656)

Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
Places: 2 – **Grants:** 2 (*)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DDG, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
Modalità	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 – 9.00 am The interview will take place electronically (Teams videoconference). In order to ensure full publicity and the uniqueness of the session of the Evaluation Commission dedicated to interviews with candidates, the candidate will be considered absent if, due to problems not dependent on the commissioners' instrumentation, he is unable to connect and useful connection for your interview, during the same session.
Exam Syllabus	The interview is designed to assess the applicant's ability to develop his/her research proposal. In addition, the applicant 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 indicated 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; Criminal procedure law Topics related to recent reforms by Parliament or recent case law (of National or European Courts); comparative and European criminal procedural law (with preference for the analysis of the so-called Stockholm Directives); technological development and criminal proceedings (with particular reference to issues concerning artificial intelligence); Tax Law Italian Tax system. Italian fiscal administrative procedures and fair trial in tax matters. International tax law. European Union tax system. Fight against aggressive tax planning in the EU. Public Comparative Law 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	English or French or German or Spanish
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. 55563@unige.it Responsible for the curriculum: Prof. Mitja Gialuz mitja.gialuz@unige.it

Course in: ECONOMICS AND POLITICAL ECONOMY (CODE 8657)

Coordinator: Bottasso Anna	
Department of Economics (Dipartimento di Economia – DIEC)	
Places: 8 (°) – **Grants:** 7 (*)	
(*) 7 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it. For CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have also to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more then 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into account for the calculation.	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	8.7.2021 – 9.30 am in remote way (teams/skype) (°) Interviews for the **COFUND-CLOE position** will be on 13 July 2021 at 10:00 am in remote way (teams)
Exam Syllabus	Discussion of CV and reasearch project. (°) For COFUND CLOE position more details on https://cloe.dp.unige.it.
Research Themes	Microeconomics, Macroeconomics, Statistics, Economic History, History of Economic Thought, Behavioral Economics, Industrial Economics, Health Economics, Environmental Economics, Regional Economics, Labor Economiacs. (°) For the COFUND CLOE position the candidate must choose his/her project on one of the following topic: Topic 1 H2020-MSCA-COFUND2020: Development of theoretical and applied models to integrate ecosystem-economics accounting for valuing and monitoring biodiversity conservation and sustainable development and non-compensatory indicators to support decision-making processes Topic 2 H2020-MSCA-COFUND2020: Choice modelling techniques and cost-benefit analysis for policy design and environmental economic valuation supporting ecological transition and sustainable development More details on https://cloe.dp.unige.it.
Information on references	One reference letter supporting the candidate should be sent by email to dottoratodiec@economia.unige.it (°°) (°) For the COFUND CLOE position up to 3 reference letters supporting the candidate can be sent to barbara.cavalletti@unige.it
Foreign Languages	English
Further Information	Any query to: dottoratodiec@economia.unige.it (°°) (°) Information for the COFUND CLOE position, Prof. Barbara Cavalletti: barbara.cavalletti@unige.it

(°°) information updated following communication of the course coordinator dated 26.05.2021

Course in: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: TRANSLATIONAL HAEMATOLOGY (CODE 8658)

Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 2 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	1.7.2021 – 9.00 am (remote interview)
Exam Syllabus	During the 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 Elish language will be evaluated by a short reading and translation test.
Research Themes	• Overview of main biological features observed in blood cancers: leukemias, lymphomas and multiple myeloma • Novel therapeutic approaches for the treatment of hematologic malignancies by use of precision-medicine strategies • The role of single-cell profiling and related technologies for studying tumor heterogeneity • Bioinformatics approaches used to investigate hematologic malignancies
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: Prof. Roberto Lemoli email: roberto.lemoli@unige.it Prof. Michele Cea email: michele.cea@unige.it

Course in: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: PATHOPHYSIOLOGY OF RENAL, CARDIOVASCULAR, ARTERIAL HYPERTENSIVE DISEASES (CODE 8659)

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 the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	2.7.2021 – 9.00 am (remote interview)
Exam Syllabus	During the 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 Elish language will be evaluated by a short reading and translation test.
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. - Biology, pathophysiology and epidemiology of heart failure. - Thrombosis and anticoagulation in atrial fibrillation and acute coronary syndromes. - Role of inflammatory mediators in ischemic heart disease, in ischemic stroke, in metabolic diseases and their cardiovascular 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, Prof. Pietro Ameri e-mail: pietroameri@unige.it and Prof. Fabrizio Montecucco email: 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. Pietro Ameri e-mail: pietroameri@unige.it Prof. Fabrizio Montecucco email: fabrizio.montecucco@unige.it

Course in: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: ONCOLOGIC GENETICS AND MOLECULAR PATHOLOGY (CODE 8660)

Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 2 – **Grants:** 1 (*)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	1.7.2021 – 9:00 am (remote interview)
Exam Syllabus	During the 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 Elish language will be evaluated by a short reading and translation test.
Research Themes	Rare or hereditary cancers molecular determinants of carcinogenesis: identification and functional characterization of genomic variants predictive of susceptibility , prognosis and response to therapy .
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. Paola Ghiorzo e-mail: paola.ghiorzo@unige.it and Prof. Luca Mastracci e-mail: luca.mastracci@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. Paola Ghiorzo paola.ghiorzo@unige.it Prof. Luca Mastracci luca.mastracci@unige.it

Course in: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: GERONTOLOGY, PHATOPHYSIOLOGY OF GERATRIC DISEASES AND ANTI-AGING MEDICINE (CODE 8661)

Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 2 – **Grants:** 2 (*) (°)	
(*) 1 grant cofunded by MIUR/ DIMI, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (*) 1 grant funded by Lunella Biotech., INC, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (°)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	2.7.2021 – 9:00 am (remote interview)
Exam Syllabus	During the 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 Elish language will be evaluated by a short reading and translation test.
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

(°) 1 grant added following the agreement dated 25.5.2021

Course in: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: AUTOIMMUNE AND AUTOINFLAMMATORY DISEASES: PATHOPHYSIOLOGICAL AND DIAGNOSTIC ASPECTS (CODE 8662)

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	2.7.2021 – 9:00 am (remote interview)
Exam Syllabus	During the 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 Elish language will be evaluated by a short reading and translation test.
Research Themes	Vitamin D and the immune system Influenza and pneumococcal vaccinations in patients receiving conventional immunosuppressive therapy and biologics Genetic and epigenetic factors in systemic sclerosis
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. Daniele Saverino, e-mail: Daniele.Saverino@unige.it and Prof. Giuseppe Murdaca e-mail: giuseppe.murdaca@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: Giuseppe Murdaca giuseppe.murdaca@unige.it Daniele Saverino Daniele.Saverino@unige.it

Course in: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: DISEASES OF THE DIGESTIVE SYSTEM AND OF THE LIVER (CODE 8663)

Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 2 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	2.7.2021 – 9:00 am (remote interview)
Exam Syllabus	During the 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 Elish language will be evaluated by a short reading and translation test.
Research Themes	- Eosinophilic Esophagitis and innate immunity: evaluation of pathophysiological mechanisms as a guide to potential treatment - Use of Artificial Intelligence-assisted endoscopy in the diagnosis of precancerous lesions of the colon. - Rehabilitation of the edentulous patient using prostheses on implants with different loading protocols - Peri-implant tissue diseases and prognostic factors predicting implant success - Peri-implant pathology - The rehabilitation of the atrophic maxilla - Maintenance and follow-up of implant rehabilitation
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 in: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: TRANSLATIONAL ONCOLOGY (CODE 8664)

Coordinator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
Places: 2 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	1.7.2021– 9:00 am (remote interview)
Exam Syllabus	During the 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 Elish language will be evaluated by a short reading and translation test.
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.
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. Francesco Boccardo, e-mail: F.Boccardo@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 Alberto Ballestrero, e-mail: aballestrero@unige.it Prof. Francesco Boccardo, e-mail: F.Boccardo@unige.it

Course in: PHILOSOPHY

Dottorato in convenzione tra il Consorzio Dottorato in Filosofia del Nordovest – FINO e le Università di Torino, Pavia, Genova, Piemonte Orientale

Curriculum: ETHICS AND POLITICAL THEORY (CODE 8665)

Coordinator: : Anna Elisabetta Galeotti	
Università degli Studi di Genova - Università degli Studi del Piemonte Orientale (UPO)	
Places: 1 (°) – **Grants:** 0	
(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it. For CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have also to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more then 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into account for the calculation.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 9:00 am (remote interview) No letters will be sent out stating admittance to the interview, therefore one must check at the link www.fino.unige.it.
Further information on how to present qualifications/publications	(°) For CLOE COFUND PROJECT, further information on the submission of the applications are available on the project website at the following link https://cloe.dp.unige.it
Research Themes	Research Theme 1 H2020-MSCA-COFUND2020: Territorial justice and fair geographical distribution of resources across urban/mountain areas Research Theme 2 H2020-MSCA-COFUND2020: Theorising individual and communal rights to stay in marginalised mountain areas (°) Further information on research themes and on the project proposal structure are available on the project's website at the following link: https://cloe.dp.unige.it.
Foreign Languages	English
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. The referents will be responsible for sending the reference letters within the deadline of the call to the e-mail address: fino@unige.it The names, status and work place of the referees chosen by the candidates must be stated in the applications.
Further Information	Prof.ssa Valeria Ottonelli vottonel@nous.unige.it www.fino.unige.it

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

Curriculum: PHYSICS (CODE 8666)

Coordinator: Ferrando Riccardo	
Department of Physics (Dipartimento di Fisica – DIFI)	
Places: 12 (°) – **Grants:** 11 (*)	
(*) 6 grants funded by the University, 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 DIFI, the gross annual amount of the scholarship is € 16.500,00 including social security contributions charged to the scholarship recipient. (*) 1 grant cofunded by MIUR/DIFI, the gross annual amount of the scholarship is € 16.500,00 including social security contributions charged to the scholarship recipient. (*) 2 grants funded by the National Institute of Nuclear Physics (Istituto Nazionale di Fisica Nucleare – INFN), the gross annual amount of the scholarship is € 16.500,00 including social security contributions charged to the scholarship recipient.	
(°) 1 place for graduates who have a grant from abroad.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 – 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 email by 28/06/2021 to phd@fisica.unige.it. The details about the connection will be in the answer to the email 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 The scholarship funded by DIFI on the H2020 SUNSHINE project (scientific coordinator Prof. Giulia Rossi) concerns the topic "Modeling of the physico-chemical properties of nanomaterials". Information in this regard can be asked for to Prof. Giulia Rossi at the email address rossig@fisica.unige.it. The scholarship funded by DIFI for which Prof. Paolo Prati is responsible concerns the topic "Characterization of the absorbance of atmospheric aerosols". Information in this regard can be asked for to Prof. Paolo Prati at the email address prati@ge.infn.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 email 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 in: PHYSICS AND NANOSCIENCES

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

Curriculum: BIO-NANOSCIENCE (CODE 8667)

Coordinator: Ferrando Riccardo	
Department of Physics (Dipartimento di Fisica – DIFI)	
Places: 6– **Grants:** 6 (*)	
(*) 6 grants funded by Foundation of 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 AND INTERVIEW
Interview	5.7.2021 – 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 email by 28/06/2021 to phd@fisica.unige.it. The details about the connection will be in the answer to the email request.
Further information on how to present qualifications/publications	The 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	- 1 fellowship on Optoelectronic single particle detection of decorated biomolecules for data storage. We target devices for the optical and electrical readout of funtionalized DNA molecules on a single particle level in the frame of the FET project DNA-FAIRYLIGHTS (https://cordis.europa.eu/project/id/964995). Contact: Dr. Roman Krahne, email Roman.Krahne@iit.it - 1 fellowship on 2D Materials for energy applications. We target the development of 2D material-based devices for conversion and storage of sunlight as part of the ERC StG Light-DYNAMO (https://cordis.europa.eu/project/id/850875). Contact: Dr. Ilka Kriegel, email Ilka.Kriegel@iit.it - 2 fellowships on Theoretical and computational condensed matter physics: materials with complex orders. The work targets understanding origins and means of manipulation of complex orders in ferroic materials, especially in multiferroics, where multiple orders (such as magnetic and ferroelectric) coexist and interact. Contact: Dr. Sergey Artyukhin, email sergey.artyukhin@iit.it - 1 fellowship on Development of a Multimodal Optical MIcroscopy Image Correlation Sensing - MOMIX (tm)- a super resolution microscope to study cellular systems at the nanoscale. Contact: Prof. Alberto Diaspro, email Alberto.Diaspro@iit.it - 1 fellowship on Label-free optical microscopy, using circular intensity differential scattering (CIDS) and non linear processes (multiphoton and second harmonic generation), towards nanoscale biophysics applications. Contact: Prof. Alberto Diaspro, email Alberto.Diaspro@iit.it Further information is available at the website www.iit.it/phd
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 email must be: PHD REFERENCE LETTER - BIO-NANOSCIENCES
Foreign Languages	Excellent knowledge of both spoken and written English. A very basic knowledge of Italian is desirable.

Course in: PHYSICS AND NANOSCIENCES

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

Curriculum: APPLIED SUPERCONDUCTIVITY (CODE 8668)

Coordinator: Ferrando Riccardo	
Department of Physics (Dipartimento di Fisica – DIFI)	
Places: 1 – **Grants:** 1 (*)	
(*) 1 grant funded by ASG Superconductors, 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	5.7.2021 – 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 email by 28/06/2021 to phd@fisica.unige.it. The details about the connection will be in the answer to the email request.
Further information on how to present qualifications/publications	The 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	1) Modeling and analysis of magnesium diboride and / or HTS cables in conditions of currents rapidly varying with time. 2) Superconducting materials and their properties; preparation of superconducting materials in the form of thin films, and development of tapes and wires for current transport 3) Dissipative phenomena in superconducting cables; development of superconducting magnets for the future accelerators; study of innovative lay-outs for superconducting magnets 4) Advanced superconducting devices for radiation detection and electronics for use in physics and astrophysics and in technological applications for IC and security.
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 email 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 in: CLINICAL AND EXPERIMENTAL IMMUNOLOGY (CODE 8669)

Coordinator: Sivori Simona	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 6 (°) – **Grants:** 4 (*)	
(*) 4 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved to employee of IRCCS - Ospedale Policlinico San Martino Genova (°) 1 place reserved to employee of ASL-1 Imperiese	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	9.7.2021 - The interview will take place at 9,30 am (Italian time), by Microsoft Teams or Skype. Candidates will receive instructions after the application deadline.
Further information on how to present qualifications/publications	University Degree in pdf format with the title of the final thesis, publication list and articles pdf, recognized experiences in research laboratories.
Exam Syllabus	Presentation and discussion of the submitted research project, assessment of the candidate preparation in clinical and experimental immunology. English reading and comprehension of a scientific article .
Research Themes	Innate immune response and characterization of innate immune cells (Natural Killer and ILCs). Adaptive immune response and characterization of T cells. Auto immunity. Tumor immunology. Immunology of infectious diseases.
Information on references	Up to three reference letters from academics and highly qualified experts in the PhD course research areas. Reference letters should be sent to the PhD Coordinator, Prof Simona Sivori, within application deadline: dottorato.immunologia@unige.it. The application should contain the following information: name, qualification and affiliation of chosen academics and experts.
Foreign Languages	English

Course in: COMPUTER SCIENCE AND SYSTEMS ENGINEERING

Curriculum: COMPUTER SCIENCE (CODE 8670)

Coordinator: Delzanno Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
Places: 6 – **Grants:** 6 (*)	
(*) 4 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 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.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 - 9.00 a.m. at DIBRIS, via Dodecaneso 35, Genoa. An interview and via video conference is also possible on the same day or on following days, should there be a high number of candidates.
Further information on how to present qualifications/publications	Instructions and guidelines to prepare a research project are available at the URL: http://phd.dibris.unige.it/csse/index.php/how-to-apply
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 areas of the Computer Science Curriculum http://phd.dibris.unige.it/csse/ are: - Artificial intelligence and Multi-agent Systems - Data Science and Engineering - Secure and Reliable Systems - Human-Computer Interaction - Science and Technology for Health More specific research projects are available at the URL: http://phd.dibris.unige.it/csse/index.php/how-to-apply. Research themes of grants funded by LEONARDO: • Porting, optimization and parallelization of HPC and AI applications on high-end GPU nodes and clusters, targeting near real-time simulations and predictions • Development of a digital twin framework based on HPC and BigData technologies for Aerospace and Cyber Security applications • Convergence of HPC and Cloud infrastructures: study of HPC container technologies (e.g. Docker, Singularity) to deliver applications as a service on cloud with HPC nodes
Information on references	Candidates must select between one and three external references (academic researchers or experts in the research area of the research proposal). Candidates must also indicate their names, qualifications, and affiliations in the application form. Furthermore, reference persons are required to send a recommendation letter for the candidate to the email: phd.compsci@dibris.unige.it before the deadline of the application. A template for the reference letter is available at the URL: http://phd.dibris.unige.it/csse/index.php/how-to-apply
Foreign Languages	English

Course in: COMPUTER SCIENCE AND SYSTEMS ENGINEERING

Curriculum: SYSTEMS ENGINEERING (CODE 8671)

Coordinator: Delzanno 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 by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 - 9:00 am at DIBRIS, via Opera Pia 13, Genoa. An interview and via video conference is also possible on the same day or on following days, should there be a high number of candidates.
Further information on how to present qualifications/publications	Instructions and guidelines to prepare a research project are available at the URL: http://phd.dibris.unige.it/csse/index.php/how-to-apply
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 areas of the Systems Engineering Curriculum http://phd.dibris.unige.it/csse/ are: Modelling of dynamic systems, performance optimization schemes and algorithms, design and development of regulation methods and schemes, planning at different levels of decision making, monitoring and supervision. More specific research projects are available at the URL: http://phd.dibris.unige.it/csse/index.php/how-to-apply
Information on references	Candidates must select between one and three external references (academic researchers or experts in the research area of the research proposal). Candidates must also indicate their names, qualifications, and affiliations in the application form. Furthermore, reference persons are required to send a recommendation letter for the candidate to the email: phd.syseng@dibris.unige.it before the deadline of the application. A template for the reference letter is available at the URL: http://phd.dibris.unige.it/csse/index.php/how-to-apply
Foreign Languages	English

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

Curriculum: MACHINES AND SYSTEMS FOR ENERGY, ENVIRONMENT AND PROPULSION (CODE 8672)

Coordinator: Cianci Roberto	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME)	
Places: 6 – **Grants:** 6 (*) (°)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIME, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (*) 3 grants funded by DIME, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (°)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	Include pdf format files.
Research Themes	The research topics of the Curriculum concern energy production and aeronautical propulsion. They have an experimental, numerical and theoretical nature and concern: 1. Turbomachinery and combustors for power generation and aeronautical propulsion: - flow analysis in power plant components and turbomachinery; - design of turbines, compressors, and pumps; - unsteady aerodynamics of gasturbine burners; - aerodynamic noise generation in turbomachinery; - 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 intake and exhaust systems of automotive engines; - advanced turbocharging systems for automotive applications; - optimization of performance, consumption and pollutant 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; - realization of simulators in simulated and real time; - analysis and optimization of complex and innovative systems for energy production. The topics dealt with present important connections with Mathematical Physics and Numerics, signal processing, controls, and transport systems.
Information on references	Candidates must choose no less than one and no more than three referees to support the candidacy. These referees must be university professors or experts in the subject. Within the call deadline, the referees shall send the reference letters to: Prof. Andrea Cattanei DIME Via Montallegro 1 16145 Genoa Andrea.Cattanei@unige.it In the admission application, candidates shall indicate name, qualification and affiliation of the referees.
Foreign Languages	English
Further Information	For further information, please contact the Phd Programme Coordinator Prof. Roberto Cianci roberto.cianci@unige.it, or Prof. Andrea Cattanei Andrea.Cattanei@unige.it.

(°) 3 grants added following the decree of the Director of DIME dated 9.06.2021

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

Curriculum: MATHEMATICAL ENGINEERING AND SIMULATION (CODE 8673)

Coordinator: Cianci Roberto	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME)	
Places: 2 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
Further information on how to present qualifications/publications	Include pdf format files.
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. Problems of diffusion 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 non-linear 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	Candidates must choose no less than one and no more than three referees to support the candidacy. These referees 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 the Coordinator of the PhD program at: Prof. Roberto Cianci DIME Via Opera Pia 15 Genoa roberto.cianci@unige.it 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 the PhD Coordinator Prof. Roberto Cianci: roberto.cianci@unige.it

Course in: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING

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

Curriculum: ECONOMICS AND MANAGEMENT (CODE 8674)

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 by the University, 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	7.7.2021 – 10:00 am at the Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME), MEC section, Via All'Opera Pia 15/a - 16145 Genova. Upon a motivated request, the interview may also take place electronically (Skype video conference) by getting in touch in time with the contact person for the curriculum Prof. Silvano Cincotti (silvano.cincotti@unige.it) and copy to the Coordinator of the Doctoral Course Giovanni Berselli (giovanni.berselli@unige.it) specifying the candidate's name, Skype address and the curriculum he/she is referring to (EG).
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 (EM.1, EM.2), 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 Economy and Management syllabus (EM) aims at developing quantitative and computational approaches in finance and economics. Two main research themes with the corresponding syllabuses have been singled out for this EM syllabus: EM.1 Specialization Agent-based Computational Economics. This syllabus focuses mainly on the use of agent technologies and methodologies for the study of economics and finance, a bottom-up approach that allows for the study of regularities emerging in the economy as a result of the behaviour and interactions of economic agents in artificial economic systems and which adapts better, with respect to traditional dynamic stochastic models, to the development of a realistic representation of the economy. The EM. 1 specialization develops skills that can be applied directly to the financial industry, to government and international organizations and to the academic world. 2. EM.2 Specialization Financial Engineering. This syllabus focuses on computational econometrics, on data mining, on automated learning and on dynamic stochastic models of financial and economic data, the objective of which is to study the pricing of derivatives and financial assets, as well as risk management, in a non-Gaussian environment and in the presence of extreme events. Furthermore, the syllabus includes innovative themes relative to the management of shares portfolios, such as pair trading and statistical arbitrage, as well as the emerging theme of high frequency automated trading. The EM.2 specialization develops skills that naturally give access to work opportunities both in the financial and academic fields.
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 in: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING

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

Curriculum: TECHNICAL PHYSICS (CODE 8739)

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 by the University, 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	7.7.2021 – 10:00 am at the Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME), MEC section, Via All'Opera Pia 15/a - 16145 Genova. Upon a motivated request, the interview may also take place electronically (Skype video conference) by getting in touch in time with the contact person for the curriculum Prof. Francesco Devia (francesco.devia@unige.it) and copy to the Coordinator of the Doctoral Course Prof. Giovanni Berselli (giovanni.berselli@unige.it) specifying the candidate's name, Skype address and the curriculum he/she is referring to (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 developping 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, Francesco Devia, at francesco.devia@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 Contact person for the FT curriculum: Prof. Francesco Devia DIME/TEC via all'Opera Pia 15/A 16145 Genova (+39) 0103352309 francesco.devia@unige.it

Course in: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING

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

Curriculum: MECHANICS, MEASUREMENTS AND MATERIALS (CODE 8675)

Coordinator: Berselli Giovanni	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME)	
Places: 6 (°) – **Grants:** 4 (*) (°°)	
(*) 1 grant funded by Foundation of 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 grant funded by Automobili Lamborghini S.p.A., 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 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 by Istituto di Intelligenza Meccanica della Scuola Superiore Sant'Anna and DIME, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (°°)	
(°) 1 place reserved to employee of SMILEDGE SRL	
(°) 1 place reserved for the employees of BeDimensional S.p.A.	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	7.7.2021 – 10:00 am at the Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME), MEC section, Via All'Opera Pia 15/a - 16145 Genova. Upon a motivated request, the interview may also take place electronically (Skype video conference) by getting in touch in time with the the Coordinator of the Doctoral Course Prof. Giovanni Berselli (giovanni.berselli@unige.it) specifying the candidate's name, Skype address and the curriculum he/she is referring to (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.
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	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

(°°) 2 grants added following the agreement dated 24.5.2021 and the decree of the Director of DIME dated 9.06.2021

Course in: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: ROBOTICS AND MECHATRONICS (CODE 8676)

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 by the University, 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	7.7.2021 – 10:00 am at the Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME), MEC division, Via All'Opera Pia 15/a - 16145 Genova. Upon a motivated request, the interview may also take place electronically (Skype video conference) by getting in touch in time with the contact person for the curriculum Matteo Zoppi (Matteo.zoppi@unige.it) and carbon copy to the Coordinator of the Doctoral Course Prof. Giovanni Berselli (giovanni.berselli@unige.it) specifying the candidate's name, Skype address and the curriculum he/she is referring to (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. Giovanni Berselli at the following address giovanni.berselli@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 in: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: TECHNOLOGIES AND PLANTS (CODE 8677)

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 by the University, 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	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.
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, at Carla.Gambaro@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. Carla Gambaro DIME/ITIMAT via all'Opera Pia 15 16145 Genova (+39) 0103352964 Carla.Gambaro@unige.it

Course in: 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 8678)

Coordinator: Regazzoni Carlo	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN)	
Places: 3 – **Grants:** 3 (*).	
(*) 3 grants funded by the University, 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 assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	8.7.2021 - 9.00 am at the Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN), via Opera Pia 11A, Genova. 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 icephd@dibe.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: title of the master's degree thesis and a brief description of the same, 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 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, 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 with regard to specific research topics.

Research Themes	1.Imitation learning in multisensor self-aware autonomous systems 2.Cooperative self-awareness for AI enabled cognitive radio 3.Signal and Image processing as a support for diagnosis and telerehabilitation practice 4.Deep learning models for predicting automated driving scenarios 5.Edge/cloud big data management, analytics and machine learning 6.Autonomous agents based on deep reinforcement learning 7.Novel inversion techniques for electromagnetic imaging 8.Design and development of resource-constrained systems for machine learning 9.Robotic systems based on tactile sensing for biomedical applications 10.Innovative electronic systems for medical diagnostics in neurology 11.New-generation Control and Management approaches for distributed and cloud-native 5G Radio Mobile Networks 12.Cybersecurity in 5G Radio Mobile Networks and Industry 4.0 Vertical Applications 13.Embedded edge computing machine learning for high density sensor arrays in autonomous systems 14.Cybersecurity threats analysis in Satellite Networks 15.Resource Allocation in Satellite Networks through Virtualization More detail on specific topics is available on the website http://phd-jdice.diten.unige.it/
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; icephd@dibe.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 Supevisor 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 in: 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 8679)

Coordinator: Regazzoni Carlo	
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 by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Nell'ambito dell'accordo con la Universidad Carlos III de Madrid (UC3M) sottoscritto in data 8.6.2018 potrà essere attivata una cotutela per il rilascio del titolo congiunto tra le due Università. Le modalità di applicazione saranno pubblicate all'indirizzo http://phd-jdice.diten.unige.it/.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	8.7.2021 - ore 9.00 at the Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN), via Opera Pia 11A, Genova. 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 icephd@dibe.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: title of the master's degree thesis and a brief description of the same, 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 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, 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 with regard to specific research topics.

Research Themes	1.Imitation learning in multisensor self-aware autonomous systems
	2.Cooperative self-awareness for AI enabled cognitive radio
	3.Signal and Image processing as a support for diagnosis and telerehabilitation practice
	4.Deep learning models for predicting automated driving scenarios
	5.Edge/cloud big data management, analytics and machine learning
	6.Autonomous agents based on deep reinforcement learning
	7.Novel inversion techniques for electromagnetic imaging
	8.Design and development of resource-constrained systems for machine learning
	9.Robotic systems based on tactile sensing for biomedical applications
	10.Innovative electronic systems for medical diagnostics in neurology
	11.New-generation Control and Management approaches for distributed and cloud-native 5G Radio Mobile Networks
	12.Cybersecurity in 5G Radio Mobile Networks and Industry 4.0 Vertical Applications
	13.Embedded edge computing machine learning for high density sensor arrays in autonomous systems
	14.Cybersecurity threats analysis in Satellite Networks
	15.Resource Allocation in Satellite Networks through Virtualization
	More detail on specific topics is available on the website http://phd-jdice.diten.unige.it/
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; icephd@dibe.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 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 Supevisor 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 in: MODERN AND CLASSICAL LITERATURES AND CULTURES

Curriculum: CLASSICAL PHILOLOGY (CODE 8680)

Coordinator: Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
Places: 6 – **Grants:** 6 (*)	
(*) 5 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIRAAS, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. The number of grants (6) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – The interview will be held in telematic mode (Teams). Specific information about the interview will be give to admitted candidates. The interviews may continue beyond the indicated date, depending on the number of admitted candidates.
Further information on how to present qualifications/publications	By the deadline of the call, the Candidate's MA dissertation and publications (if any) will have to be sent in pdf format to Prof. Lara Pagani (lara.pagani@unige.it). A motivation letter (350-400 words), written in Italian by the candidate, will have to be sent to Prof. Francesca Gazzano (francesca.gazzano@unige.it).
Exam Syllabus	The interview will be held online (on the TEAMS platform). It will be made up of two parts: the first aims to ascertain disciplinary competences and language skills (as required by the candidate's chosen curriculum -- see Lingue straniere below); the second involves the presentation by the candidate of her/his research project highlighting the applicant's scientific interests and experiences, as well as her/his critical and argumentative skills. The first part of the interview will be chaired by the members of the interview Panel who are specialists in the candidate's field of interest; the research project will be discussed with the complete interview Panel; assessment of language skills may be carried out with the aid of external experts, if necessary.
Research Themes	- Greek literature and philology; - Latin literature and philology; - Byzantine literature and philology. - Ancient Christian texts: their t radition and reception.
Information on references	Min. 1- max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to dottoratoscienzeumanistiche@unige.it by the deadline of the call.
Foreign Languages	All candidates are expected to be proficient in either ancient Greek or Latin. A good working knowledge of two modern foreign languages (chosen among English, French, Spanish, German) is required of all applicants, who will be asked to translate passages 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 online interview. Admission will be based on cv, MA dissertation, publications and research project. The list of those admitted will be posted to our site: https://corsi.unige.it/it/11196 by 08/07/2021

Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES

Curriculum: PHILOLOGY AND LINGUISTICS OF ITALIAN AND ROMANCE TEXTS (CODE 8681)

Coordinator: Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
Places: 6 – **Grants:** 6 (*)	
(*) 5 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIRAAS, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. The number of grants (6) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – The interview will be held in telematic mode (Teams). Specific information about the interview will be give to admitted candidates. The interviews may continue beyond the indicated date, depending on the number of admitted candidates.
Further information on how to present qualifications/publications	By the deadline of the call, the Candidate's MA dissertation and publications (if any) will have to be sent in pdf format to Prof. Luca Beltrami (luca.beltrami@unige.it). A motivation letter (350-400 words), written in Italian by the candidate, will have to be sent to Prof. Enrico Testa (enrico.testa@unige.it).
Exam Syllabus	The interview will be held online (on the TEAMS platform). It will be made up of two parts: the first aims to ascertain disciplinary competences and language skills (as required by the candidate's chosen curriculum -- see Lingue straniere below); the second involves the presentation by the candidate of her/his research project highlighting the applicant's scientific interests and experiences, as well as her/his critical and argumentative skills. The first part of the interview will be chaired by the members of the interview Panel who are specialists in the candidate's field of interest; the research project will be discussed with the complete interview Panel; assessment of language skills may be carried out with the aid of external experts, if necessary.
Research Themes	- Critical/commented editions of literary texts (any period of Italian literary history). - Philology and criticism of romance texts - Italian lexicography and lexicology. - The comic, satire, parody: medieval themes and practices.
Information on references	Min. 1- max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to dottoratoscienzeumanistiche@unige.it by the deadline of the call.
Foreign Languages	During the interview candidates will be asked to translate a passage from english or french. 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 online interview. Admission will be based on cv, MA dissertation, publications and research project. The list of those admitted will be posted to our site: https://corsi.unige.it/it/11196 by 08/07/2021.

Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES

Curriculum: ITALIAN LITERATURE: TEXTUAL TRADITIONS AND INTERPRETATIONS (CODE 8682)

Coordinator: Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
Places: 6 – **Grants:** 6 (*).	
(*) 5 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIRAAS, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. The number of grants (6) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – The interview will be held in telematic mode (Teams). Specific information about the interview will be give to admitted candidates. The interviews may continue beyond the indicated date, depending on the number of admitted candidates.
Further information on how to present qualifications/publications	By the deadline of the call, the Candidate's MA dissertation and publications (if any) will have to be sent in pdf format to Prof. Luca Beltrami (luca.beltrami@unige.it). A motivation letter (350-400 words), written in Italian by the candidate, will have to be sent to Prof. Enrico Testa (enrico.testa@unige.it).
Exam Syllabus	The interview will be held online (on the TEAMS platform). It will be made up of two parts: the first aims to ascertain disciplinary competences and language skills (as required by the candidate's chosen curriculum -- see Lingue straniere below); the second involves the presentation by the candidate of her/his research project highlighting the applicant's scientific interests and experiences, as well as her/his critical and argumentative skills. The first part of the interview will be chaired by the members of the interview Panel who are specialists in the candidate's field of interest; the research project will be discussed with the complete interview Panel; assessment of language skills may be carried out with the aid of external experts, if necessary.
Research Themes	Critical/commented editions of literary works (any period of Italian literary history). - Intercultural and intertextual research themes: a) Ligurian literature ('500-'900) b) from Mannerism to Romanticism c) the Risorgimento - Ligurian authors' manuscripts - Literature and journalism - Italian literature and the theatre - Italian literature and music history.
Information on references	Min. 1- max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to dottoratoscienzeumanistiche@unige.it by the deadline of the call.
Foreign Languages	During the interview candidates will be asked to translate a passage from english or french. 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 online interview. Admission will be based on cv, MA dissertation, publications and research project. The list of those admitted will be posted to our site: https://corsi.unige.it/it/11196 by 08/07/2021.

Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES

Curriculum: ANGLO-GERMAN LITERATURES (CODE 8683)

Coordinator: Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
Places: 6 – **Grants:** 6 (*).	
(*) 5 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIRAAS, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. The number of grants (6) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – The interview will be held in telematic mode (Teams). Specific information about the interview will be give to admitted candidates. The interviews may continue beyond the indicated date, depending on the number of admitted candidates.
Further information on how to present qualifications/publications	By the deadline of the call, the Candidate's MA dissertation and publications (if any) will have to be sent in pdf format to Prof. Davide Finco (davide.finco@unige.it). A motivation letter (350-400 words), written in Italian by the candidate, will have to be sent to Prof. Laura Colombino (laura.colombino@unige.it).
Exam Syllabus	The interview will be held online (on the TEAMS platform). It will be made up of two parts: the first aims to ascertain disciplinary competences and language skills (as required by the candidate's chosen curriculum -- see Lingue straniere below); the second involves the presentation by the candidate of her/his research project highlighting the applicant's scientific interests and experiences, as well as her/his critical and argumentative skills. The first part of the interview will be chaired by the members of the interview Panel who are specialists in the candidate's field of interest; the research project will be discussed with the complete interview Panel; assessment of language skills may be carried out with the aid of external experts, if necessary.
Research Themes	Our PhD programme welcomes research projects on a variety of authors and works of English (16th-21rst centuries), Nordic (18th 21rst centuries) and German (18th 21rst centuries) literatures. Main fields of research: - English Studies: Elizabethan and Jacobean theatre; 18th century fiction; Orientalism in the age of Enlightenment; the Sublime; representations of the British aristocracy; Romantics, late romantics and early Victorians; Victorian colonial warfare and its representations; aestheticism and decadence; literary impressionism; late Victorian fiction; metropolitan Modernists and colonial peripheries; writing, visual arts and inter textuality; modernist criticism and metaphysical poetry; contemporary urban literature; tradition and innovation in Postwar poetry; vulnerability, ethics and biopolitics in 21st century fiction. - German studies: travel writing; the grotesque in literature; the historical novel; war literature; popular literature and national identities ((1850 1914), contemporary dramaturgy; transcultural literature in German; literary translation. - Nordic literatures: literature and society (19th 20th centuries); decadence, avant garde and early modernism; value crisis, faith vs science, and the 'occult revival' in the late 19th century. Translation and reception of Nordic authors in other European countries; poetry and poetic trends; modernism and neoclassicism; poetry a nd the new media; theatre and cinema. Children's literature. Literature for children in the 20th century.
Information on references	Min. 1- max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to dottoratoscienzeumanistiche@unige.it by the deadline of the call.
Foreign Languages	The candidate's mastery of the foreign language/languages directly involved in his/her research project will be tested during the interview. An advanced level of at least one foreign language and an instrumental 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 online interview. Admission will be based on cv, MA dissertation, publications and research project. The list of those admitted will be posted to our site: https://corsi.unige.it/it/11196 by 08/07/2021.

Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES

Curriculum: ROMANCE AND SLAVIC LITERATURES (CODE 8684)

Coordinator: Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
Places: 6 – **Grants:** 6 (*).	
(*) 5 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIRAAS, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. The number of grants (6) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – The interview will be held in telematic mode (Teams). Specific information about the interview will be give to admitted candidates. The interviews may continue beyond the indicated date, depending on the number of admitted candidates.
Further information on how to present qualifications/publications	By the deadline of the call, the Candidate's MA dissertation and publications (if any) will have to be sent in pdf format to Prof. Davide Finco (davide.finco@unige.it). A motivation letter (350-400 words), written in Italian by the candidate, will have to be sent to Prof. Laura Salmon (salmon@unige.it).
Exam Syllabus	The interview will be held online (on the TEAMS platform). It will be made up of two parts: the first aims to ascertain disciplinary competences and language skills (as required by the candidate's chosen curriculum -- see Lingue straniere below); the second involves the presentation by the candidate of her/his research project highlighting the applicant's scientific interests and experiences, as well as her/his critical and argumentative skills. The first part of the interview will be chaired by the members of the interview Panel who are specialists in the candidate's field of interest; the research project will be discussed with the complete interview Panel; assessment of language skills may be carried out with the aid of external experts, if necessary.
Research Themes	Our PhD programme welcomes research projects on a variety of authors and works. Main fields of research: French literature (17th-21st centuries): seventeenth-century theatre, Histoire comique and philosophical libertinism; the sublime in eighteenth-century literature, the Philosophes, historical-critical relativism; Romanticism and self-referential aesthetics; the poetics of truthfulness and beauty; the 'myth of the fall'; Flaubert and Baudelaire; art for art's sake, symbolism, naturalism; twentieth-century avant-gardes; Nouveau Roman and Oulipo. Portuguese and Brazilian literatures (19th-21st centuries): Fernando Pessoa and Portuguese modernism; literature and power during the Salazar regime; literature and censorship; memory and trauma; colonial warfare; Brazilian modernism; the representation of space in Brazilian regionalist novels; literature and the margin; Brazilian favelas; postcolonial studies: African literatures in Portuguese. Spanish literature (17th-21st): the literature of crisis: the essay and the novel after the loss of Cuba (1898); urban space in fiction (1850 2020); fictional subgenres and their hybridization in democratic Spain. Russian literature (17th-20th centuries): the literature of the Petrine Era, authors of the nineteenth and twentieth century, Jewish-Russian literature and culture; Humour studies; literary onomastics; the classics and meta-analyses (19th-20th centuries); the aesthetics of literary translation. Polish literature (20th-21st centuries): Polish-Jewish literatures; 1950s-2020: gender and identity, women writers, literature and history, prison literature, autobiography; imagology and self representation.
Information on references	Min. 1- max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to dottoratoscienzeumanistiche@unige.it by the deadline of the call.

Foreign Languages	The candidate's mastery of the foreign language/languages directly involved in his/her research project will be tested during the interview. An advanced level of at least one foreign language and an instrumental 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 online interview. Admission will be based on cv, MA dissertation, publications and research project. The list of those admitted will be posted to our site: https://corsi.unige.it/it/11196 by 08/07/2021.

Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES

Curriculum: HISTORICAL SCIENCES OF ANCIENT TIMES (CODE 8685)

Coordinator: Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
Places: 6 – **Grants:** 6 (*).	
(*) 5 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIRAAS, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. The number of grants (6) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – The interview will be held in telematic mode (Teams). Specific information about the interview will be give to admitted candidates. The interviews may continue beyond the indicated date, depending on the number of admitted candidates.
Further information on how to present qualifications/publications	By the deadline of the call, the Candidate's MA dissertation and publications (if any) will have to be sent in pdf format to Prof. Lara Pagani (lara.pagani@unige.it). A motivation letter (350-400 words), written in Italian by the candidate, will have to be sent to Prof. Francesca Gazzano (francesca.gazzano@unige.it).
Exam Syllabus	The interview will be held online (on the TEAMS platform). It will be made up of two parts: the first aims to ascertain disciplinary competences and language skills (as required by the candidate's chosen curriculum -- see Lingue straniere below); the second involves the presentation by the candidate of her/his research project highlighting the applicant's scientific interests and experiences, as well as her/his critical and argumentative skills. The first part of the interview will be chaired by the members of the interview Panel who are specialists in the candidate's field of interest; the research project will be discussed with the complete interview Panel; assessment of language skills may be carried out with the aid of external experts, if necessary.
Research Themes	- Greek civilization: historical, political, institutional, social, economic, religious and cultural aspects. - Roman civilization: historical, political, institutional, social, economic, religious and cultural aspects. - Greek and Roman archaeology and art history: methods o f archaeological research.
Information on references	Min. 1- max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to dottoratoscienzeumanistiche@unige.it by the deadline of the call.
Foreign Languages	Ancient History applicants are expected to be proficient in either ancient Greek or Latin. A good working knowledge of two modern foreign languages (chosen among English, French, Spanish, German) is required of all candidates (Ancient History and Archeology), who will be asked to translate passages 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 online interview. Admission will be based on cv, MA dissertation, publications and research project. The list of those admitted will be posted to our site: https://corsi.unige.it/it/11196 by 08/07/2021.

Course in: MATHEMATICS AND APPLICATIONS

Curriculum: MATHEMATICS AND APPLICATIONS (CODE 8686)

Coordinator: Vigni Stefano	
Department of Mathematics (Dipartimento di Matematica – DIMA)	
Places: 5 – **Grants:** 5 (*)	
(*) 4 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIMA, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Data, ora e luogo del Interview	1.7.2021 - ore 09:00 The interviews will be held in telematic mode (Skype) and may continue on 2.7.2021. Specific information about the interview will be give to candidates.
Exam Syllabus	The comparative assessment procedure consists in the assessment of qualifications/publications and in interview on the research project presented by the candidate.
Further information on how to present qualifications/publications	- if available, their 5-year degree thesis (to be uploaded online). Furthermore: - their three-year degree and 5-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.
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 email 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 in: MATHEMATICS AND APPLICATIONS

Curriculum: MATHEMATICAL METHODS FOR DATA ANALYSIS (CODE 8687)

Coordinator: Vigni Stefano	
Department of Mathematics (Dipartimento di Matematica – DIMA)	
Places: 3 – **Grants:** 3 (*) (°)	
(*) 1 grant funded by Roche S.p.a., the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by IRCCS - Ospedale Policlinico San Martino Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by Kellify S.p.a, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (°)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Data, ora e luogo del Interview:	1.7.2021 - ore 09.00 The interviews will be held in telematic mode (Skype) and may continue on 2.7.2021. Specific information about the interview will be give to candidates by the Commission.
Exam Syllabus:	The comparative assessment procedure consists in the assessment of qualifications/publications and in interview on the research project presented by the candidate.
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: - in their curriculum their three year degree and 5 year degree marks should be indicated; - a research project (2 pages max.) which describes the research theme they intend to work on during the Doctoral Course.
Research Themes	Theme 1 (Roche): Development of artificial intelligence algorithms in personalized healthcare. Abstract: This project aims to investigate how artificial intelligence (simulation, inverse problems, machine learning) may be utilized to better understand healthcare data with the objective to accelerate the development of new drugs and the assessment of their effectiveness and impact even at a societal level. Theme 2 (San Martino): Computational analysis of multi-modal biomedical and health data. Abstract: This project is concerned with the development of artificial intelligence techniques for the analysis of multi-modal biomedical and health data. In the three years of this project, the PhD student will work at machine learning, inverse and simulation problems aimed at the interpretation of oncological and neurological data, including imaging, omics, biochemical and health data. Theme 3 (Kellify): Development of Artificial Intelligence algorithms for recommendation systems in the intellectual works market (images, videos and music) Abstract: The project focuses on the study of the methodological and statistical aspects underlying Artificial Intelligence systems with the aim of identifying how aesthetic factors influence public perception. (°°)
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 email address: stefano.vigni@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 grant added following the agreement dated 7.06.2021
(°°) information updated following the communication of the course coordinator dated 7.06.2021

Course in: EXPERIMENTAL MEDICINE

Curriculum: BIOCHEMISTRY (CODE 8688)

Coordinator: Bonanno Giambattista	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 2 – **Grants:** 2 (*).	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 – 2.00 pm at the Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES), Biochemistry section, viale Benedetto XV 1st floor, 16132 Genova. The interview may take place at the request of the interested party or if the health situation makes it necessary, also in telematic mode. Candidates who request the telematic mode must contact prof.ssa Santina Bruzzone (santina.bruzzone@unige.it) at least 15 days before the interview. To this end, the candidate must have a reliable internet connection, in order to allow the test to take place.
Exam Syllabus	The interview will focus on several topics of General Biochemistry, the presentation of any previous research experience of the candidate for the preparation of the thesis, or other, and the assessment of the knowledge of the English language by reading and translating part of a scientific article.
Research Themes	Physiopathological role of the coenzyme NAD and of enzymes involved in its synthesis and degradation. In vivo, ex vivo and in vitro modeling of Alexander disease to search for druggable molecular targets in order to counteract mutant GFAP misfolding and aggregation.
Information on references	Candidates must choose no less than one and no more than three university professors or subject experts to support their candidature. These persons are required to send their reference letters, within the deadline of the call, to the the following address: Prof. Santina Bruzzone University of Genoa DIMES - Biochemistry Unit Viale Benedetto XV 1 16132 Genoa or, alternatively, to the e-mail address: santina.bruzzone@unige.it The personal details (name/surname, qualification, institution) of the persons chosen by the candidates must be reported in the application form.
Foreign Languages	English
Further Information	Prof. Santina Bruzzone University of Genoa DIMES - Biochemistry Unit Viale Benedetto XV 1 16132 Genoa (+39) 0103538161 santina.bruzzone@unige.it www.dms.unige.it

Course in: EXPERIMENTAL MEDICINE

Curriculum: PHARMACOLOGY AND TOXICOLOGY (CODE 8689)

Coordinator: Bonanno Giambattista	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 2 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	7.7.2021 – 09.30 am at the Department of Pharmacy (Dipartimento di Farmacia – DIFAR), Pharmacology and Toxicology Section, III floor viale Cembrano 4, 16148 Genova. The interview may take place at the request of the interested party or if the health situation makes it necessary, also in telematic mode. Candidates who request the telematic mode must contact prof. Ernesto Fedele (ernesto.fedele@unige.it) at least 15 days before the interview. To this end, the candidate must have a reliable internet connection, in order to allow the test to take place.
Exam Syllabus	The interview will focus on the candidate's previous experiences – if any – 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	Neuropharmacology, Neurotoxicology, Clinical Pharmacology
Information on references	Candidates must choose no less than one and no more than three university professors or subject experts to support their candidature. These persons are required to send their reference letters, within the deadline of the call, to the the following address: Prof. Ernesto Fedele University of Genoa DIFAR - Pharmacology and Toxicology Unit Viale Cembrano 4 16148 Genoa or, alternatively, at the e-mail address: fedele@difar.unige.it The personal details (name/surname, qualification, institution) of the persons chosen by the candidates must be reported in the application form
Foreign Languages	English
Further Information	Prof. Ernesto Fedele University of Genoa DIFAR - Pharmacology and Toxicology Unit Viale Cembrano 4 16148 Genoa (+39) 0103532659 fedele@difar.unige.it www.dms.unige.it

Course in: EXPERIMENTAL MEDICINE

Curriculum: INTERNATIONAL CURRICULUM IN PHARMACOLOGY AND TOXICOLOGY (CODE 8690)
Curriculum in agreement with Maastricht University, Maastricht, The Netherlands

Coordinator: Bonanno Giambattista	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 – **Grants:** 1 (*).	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
At the end of the course a joint qualificaiton 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	7.7.2021 – 09.30am at the Department of Pharmacy (Dipartimento di Farmacia – DIFAR), Pharmacology and Toxicology Section, III floor, viale Cembrano 4, 16148 Genova. The interview may take place at the request of the interested party or if the health situation makes it necessary, also in telematic mode. Candidates who request the telematic mode must contact prof. Ernesto Fedele (ernesto.fedele@unige.it) at least 10 days before the interview. To this end, the candidate must have a reliable internet connection, in order to allow the test to take place.
Exam Syllabus	The interview (in English) will focus on the candidate's previous experiences – if any – 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	Neuropharmacology, Neurotoxicology
Information on references	Candidates must choose no less than one and no more than three university professors or subject experts to support their candidature. These persons are required to send their reference letters, within the deadline of the call, to the the following address: Prof. Ernesto Fedele University of Genova DIFAR - Pharmacology and Toxicology Unit Viale Cembrano 4 16148 Genova or, alternatively, at the e-mail address: fedele@difar.unige.it The personal details (name/surname, qualification, institution) of the persons chosen by the candidates must be reported in the application form
Foreign Languages	English
Further Information	Prof. Ernesto Fedele University of Genoa Department of Pharmacy (DIFAR) Viale Cembrano 4 16148 Genova (+39) 0103532659 fedele@difar.unige.it www.dms.unige.it

Course in: EXPERIMENTAL MEDICINE

Curriculum: MOLECULAR AND CELLULAR PATHOLOGIES OF DISEASES CORRELATED TO AGEING (CODE 8691)

Coordinator: Bonanno Giambattista	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 2 – **Grants:** 2 (*).	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	8.7.2021 – 10.00 am at the Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES), Pathology Section, via L.B. Alberti 2, 16132 Genova. The interview may take place at the request of the interested party or if the health situation makes it necessary, also in telematic mode. Candidates who request the telematic mode must contact prof.ssa Cinzia Domenicotti (cinzia.domenicotti@unige.it) at least 15 days before the interview. To this end, the candidate must have a reliable internet connection, in order to allow the test to take place.
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 an excerpt from a scientific article.
Research Themes	New biomarkers for the prognostic evaluation of sepsis in the population over 55 and in response to antimicrobial therapy. Structure and function in glaucomatous disease. Molecular basis of drug resistance.
Information on references	Candidates must choose no less than one and no more than three university professors or subject experts to support their candidature. These persons are required to send their reference letters, within the deadline of the call, to the the following address: Prof. Cinzia Domenicotti University of Genoa DIMES - General Pathology Unit Via Leon Battista Alberti 2 16132 Genoa or, alternatively, to the e-mail address: cinzia.domenicotti@unige.it The personal details (name/surname, qualification, institution) of the persons chosen by the candidates must be reported in the application form.
Foreign Languages	English
Further Information	Prof. Cinzia Domenicotti University of Genoa DIMES - General Pathology Unit Via Leon Battista Alberti 2 16132 Genova (+39) 0103538830 cinzia.domenicotti@unige.it www.dms.unige.it

Course in: NEUROSCIENCES

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

Curriculum: CLINICAL AND EXPERIMENTAL NEUROSCIENCES (CODE 8692)

Coordinator: Schenone Angelo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI)	
Places: 6 – **Grants:** 5 (*)	
(*) 3 grants funded by the University, 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 DINOGMI, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(°) 1 place reserved to employee of TICE Cooperativa Sociale	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	5.7.2021 – ore 8:30 – Video conference interview
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 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	a) Neurology: multiple sclerosis and immuno-dependent CNS and PNS diseases, CNS degenerative diseases, epilepsy, sleeping diseases, cerebral-vascular 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 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.
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 Dipartimento di Medicina Interna e specialità mediche (DIMI) Viale Benedetto XV, 2 16132 Genova or, alternatively, to the following e-mail address: tullio.florio@unige.it; or to Dr. Maria Paola Fenu: neurologia@neurologia.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 (neurologia@neurologia.unige.it)

Course in: NEUROSCIENCES

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

Curriculum: NEUROSCIENCES AND NEUROTECHNOLOGIES (CODE 8693)

Coordinator: Schenone Angelo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI)	
Places: 6 – **Borse** 6 (*)	
(*) 6 grants funded by Foundation of 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	he following documentation must be sent in the manner established in the competition notice: 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 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, e 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 mail address: rossana.ciancio@iit.it f) declaration of knowledge of english as used in the doctoral school
Research Themes	1) Multi-scale computational study of PRRT2-Nav interactions. Tutor: Luca Maragliano e Fabio Benfenati luca.maragliano@iit.it 2) Advanced nanozymes to prevent ROS-induced neurodegeneration of the retina Tutor: Elisabetta Colombo e Stefano di Marco elisabetta.colombo@iit.it stefano.dimarco@iit.it 3) Engineering of the blood-brain barrier: regulation of the crossing of molecules and nanomaterials through the transcellular and paracellular pathways Tutor: Valentina Castagnola e Fabio Benfenati valentina.castagnola@iit.it 4) Cellular mechanisms of perception Tutor: Tommaso Fellin tommaso.fellin@iit.it 5) Brain developmental pathology of Neurodevelopmental disorders Tutor: Laura Cancedda laura.cancedda@iit.it 6) Coordination in space and time of excitatory and inhibitory synaptic plasticity at dendritic synapses Tutor: Andrea Barberis andrea.barberis@iit.it
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 must be responsible for sending the reference letters in pdf, within the deadline of the call, to the contact person of the Curriculum in Neurosciences and Brain Technologies, Prof. Fabio Benfenati, to the mail address: rossana.ciancio@iit.it
Foreign Languages	English
Further Information	For further information, please write to: rossana.ciancio@iit.it

Course in: 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 8694)

Coordinator: Schenone Angelo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI)	
Places: 5 – **Grants:** 5 (*)	
(*) 3 grants funded by the University, 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 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
Colloquio	8.7.2021 – 9:00am – Video conference interview
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 in videoconference 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, feasability, 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.
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, Sezione di Fisiologia Umana, Dipartimento di Medicina Sperimentale (DIMES), Viale Benedetto XV, n. 3, 16132 Genova. e-mail: ruggeri@unige.it Tel.: 010-3538185, Fax: 010-3538194 and to: Dott.ssa Maria Paola Fenu e-mail: neurologia@neurologia.unige.it
Foreign Languages	English
Further Information	Prof. Piero Ruggeri, Sezione di Fisiologia Umana, Dipartimento di Medicina Sperimentale (DIMES), Viale Benedetto XV, n. 3, 16132 Genova. e-mail: ruggeri@unige.it Tel.: 010-3538185, Fax: 010-3538194 Candidate selected for one of the grants funded by DINOGMI will carry out activities in Savona Campus, at the laboratory Rehelab.

Course in: HEALTH SCIENCES

Curriculum: BIOSTATISTICS AND METHODS FOR ANALYSIS OF BIG DATA (CODE 8695)

Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 2 (°) – **Grants:** 1 (*).	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved to employee of Merck Serono S.p.A. (°)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 –9.00am using a software that allows a remote video connection
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 Email: giuseppe.zara@unige.it

(°) 1 place added following the agreement dated 4.06.2021

Course in: HEALTH SCIENCES

Curriculum: EPIDEMIOLOGY AND VACCINE PREVENTION (CODE 8696)

Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 – **Grants:** 1 (*).	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 –9.00am using a software that allows a remote video connection
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. 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 Email: giuseppe.zara@unige.it

Course in: HEALTH SCIENCES

Curriculum: INFECTIOUS AND TROPICAL DISEASES (CODE 8697)

Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 – **Grants:** 1 (*).	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 – 9.00am using a software that allows a remote video connection
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 Email: giuseppe.zara@unige.it

Course in: HEALTH SCIENCES

Curriculum: FORENSIC AND OCCUPATIONAL MEDICINE (CODE 8698)

Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 – **Grants:** 1 (*).	
(*) 1 grant funded by DISSAL, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 –9.00am using a software that allows a remote video connection
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 De Stefano at the following address: Fdestefano@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 Email: giuseppe.zara@unige.it

Course in: HEALTH SCIENCES

Curriculum: NURSING (CODE 8699)

Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 – **Grants:** 1 (*)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 – 9.00am using a software that allows a remote video connection
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 Email: giuseppe.zara@unige.it

Course in: HEALTH SCIENCES

Curriculum: PREVENTION OF CANCER AND OF CHRONIC DEGENERATIVE DISEASES (CODE 8700)

Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1 – **Grants:** 1 (*).	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 – 9.00am using a software that allows a remote video connection
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 Email: giuseppe.zara@unige.it

Course in: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: LOGISTICS AND TRANSPORTATION (CODE 8701)

Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 6 (°) – **Grants:** 5 (*) (°) (°°)	
(*) 3 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant funded by Compagnia di San Paolo, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant cofunded by TIM10 Srl and CIELI, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (°°)	
(°) 1 place reserved for employees of Autorità di Sistema Portuale del Mar Ligure Occidentale (°)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 Interviews will be done at 10 AM via Skype (the application must report the candidate's Skype account)
Further information on how to present qualifications/publications	Qualifications and pubblications must be attached to the application form.
Exam Syllabus	The interviews will focus on the knowledge of the transport sector in its multidisciplinary aspects and the candidate's aptitude for scientific research. In addition, candidates will be requested to read and comprehend a scientific text in English.
Research Themes	1. Competition and regulation in the transport system 2. States' intervention in transport and transport infrastructures as a tool to implement competition, environmental and industrial policies 3. Green strategies and green products in the cruise sector 4. Energy and environmental policies and strategies in shipping and port sectors 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
Information on references	Letters of reference must be sent to: cieli@unige.it and claudio.ferrari@economia.unige.it
Foreign Languages	English
Further Information	For further information please contact prof. Claudio Ferrari by e-mail (claudio.ferrari@economia.unige.it)

(°) information updated following communication of the course coordinator dated 21.05.2021
(°°) 1 grant added following the decree of the Director of CIELI dated 27.05.2021 and the commitment letter dated 26.05.2021

Course in: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: MARINE ECOSYSTEM SCIENCES (CODE 8702)

Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 2 – **Grants:** 2 (*)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by Compagnia di San Paolo, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	8.07.2021 - 10:00 am 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 on request also electronically (video conference via SKYPE) by contacting the Prof. Luigi Vezzulli at least a week before by e-mail (luigi.vezzulli@unige.it)
Exam Syllabus	The interview will focus on the discussion of the candidate's curriculum and the research project with particular reference to the relevance of the proposed activities with the research themes of the doctorate, the scientific content, the innovativeness and the feasibility of their realization.
Research Themes	Priority research topics will concern: (a) the physiology of marine organisms: mechanisms involved in regulation of early larval development in model marine invertebrates and modulation by environmental stress, (b) the applied physical oceanography sector, with particular attention to the study of microplastics in the marine environment and their diffusion and interaction with the biotic and abiotic sectors, also in relation to their ability to convey environmental contaminants. 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 email 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	For further information contact Prof. Luigi Vezzulli by e-mail (luigi.vezzulli@unige.it)

Course in: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: NAVAL ARCHITECTURE AND MARINE ENGINEERING - MARINE TECHNOLOGIES (CODE 8703)

Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 4 – **Grants:** 4 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by Compagnia di San Paolo, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by Centro ISME on the research theme: Marine robotics team for area exploration and monitoring. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	9.7.2021 – ore 9.00 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 a 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://corsi.unige.it/11353/news/11183-xxxvii-ciclo-di-dottorato-temi-di-ricerca (°) 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

(°) information updated following communication of the curriculum coordinator dated 16.05.2021.

Course in: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: ENGINEERING FOR MARINE AND COASTAL ENVIRONMENTS (CODE 8704)

Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 3 – **Grants:** 3 (*)	
(*) 3 grants funded by the University (1 grant on the research theme: Development of integrated technologies aimed at nautical services), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 –9.00am The interview will take place electronically (Teams, Skype or Zoom) at 9 AM by contacting the secretariat of the PhD (dottorato.dicca@unige.it) and Prof. Giovanni Besio (giovanni.besio@unige.it) at least 15 days before the evaluation. To this end, the candidate must have a reliable internet connection, so as to allow the conduct of the test. In case the pandemic situation and legislation allows, the interview may take place in presence. Interviews may continue on 15.07.2021 at 9am.
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 (Bachelor and M.Sc.). 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 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. One grant is specifically dedicated to the development of remote monitoring technologies aimed at marine services.
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 in: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: FLUID MACHINES AND ENERGY SYSTEMS FOR MARITIME APPLICATIONS (CODE 8705)

Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 2 – **Grants:** 2 (*).	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
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 Doctorate Coordinator, to Prof. Aristide Massardo, to the following address: massardo@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	For further information please contact prof. Aristide Massardo (massardo@unige.it)

Course in: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: NAVAL AND NAUTICAL DESIGN (CODE 8706)

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Coordinator: Ferrari Claudio	
Centro del Mare	
Places: 3 (°) – **Grants:** 2 (*).	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by Compagnia di San Paolo, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved to employee of Museo Rahmi Koc (Ankara)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	6.7.2021 Interviews will start at 10 AM via TEAMS platform
Research Themes	- Industrialization of the nautical product - Sustainability of the nautical product - Enhancement of the existing nautical heritage
Information on references	Reference letters should be sent to: mario.ivan.zignego@unige.it
Foreign Languages	English

Course in: SCIENCE AND TECHNOLOGY 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 8707)

Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 3 – **Grants:** 3 (*).	
(*) 3 grants funded by Foundation of 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 AND INTERVIEW
Interview	9.7.2021 – 9.00am at Istituto Italiano di Tecnologia (DCCI), via Morego 30, 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 5/7/2021 by e-mail to phd_d3@iit.it (subject: PhD_interview).
Further information on how to present qualifications/publications	Evaluable qualifications: 1. educational qualifications with marks; 2. transcript of records (list of exams with marks); 3. recommendation letters (maximum three); 4. research project written in English; 5. curriculum vitae et studiorum; 6. 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 candidate's attitude to develop a scientific project. During the presentation the Committee will ascertain the candidate knowledge of English language.
Research Themes	1. Nanomedicines for chronic inflammatory diseases. 2. Development of colorimetric nanosensors for on-field diagnostics (2 positions available)
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 email to phd_d3@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	Prof. Paolo Decuzzi paolo.decuzzi@iit.it Dr. Pier Paolo Pompa pierpaolo.pompa@iit.it Administrative contact person Dr. Francesca Razzetti (+39) 0102896772 francesca.razzetti@iit.it

Course in: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS

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

Curriculum: NANOCHEMISTRY (CODE 8708)

Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 9 – **Grants:** 9 (*)	
(*) 9 grants funded by Foundation of 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	Evaluable qualifications: 1. educational qualifications with marks; 2. transcript of records (list of exams with marks); 3. recommendation letters (maximum three); 4. research project written in English; 5. curriculum vitae et studiorum; 6. 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. Optoelectronics of plasmonic/semiconducting low-dimensional nanomaterials. 2. Surface and crystal volume engineering of colloidal nanocrystals for targeted radiotherapy and thermal-therapy. 3. Development of new colloidal nanocrystals for energy related applications. 4. Engineering light-matter interactions with 2D materials at the nanometre level via substrate patterning. 5. Multi-electron processes for light driven electrodes and electrolytes in conversion and storage of solar energy (specifica per il progetto FET "LIGHT-CAP" GA nr. 101017821). 6. Novel light-emitting nanomaterials for optoelectronics. 7. Fabrication and development of optoelectronic devices based on nanomaterials. 8. Plastic particles and their interactions with other water pollutants 9. Multifunctional porous materials for advanced water treatment
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 email 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	For further information on esearch themes: https://chimica.unige.it/sites/dcci.unige.it/files/pagine/tematiche%20nanochemistry%2037%20ciclo%20descrizione.pdf (°) Administrative contact person Dr. Iulia Manolache Tel: (+39) 0102896718 iulia.manolache@iit.it

(°) Information updated following communication of the course coordinator dated 13.05.2021

Course in: SCIENCE AND TECHNOLOGY 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 8709)

Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 3 – **Grants:** 3 (*).	
(*) 3 grants funded by the University, 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	12.7.2021 – 9:00am, at Dipartment of Physics (DIFI), via Dodecaneso 33, 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 5/7/2021 by e-mail to relini@fisica.unige.it (subject: PhD_interview).
Further information on how to present qualifications/publications	Evaluable qualifications: 1. educational qualifications with marks; 2. transcript of records (list of exams with marks); 3. recommendation letters (maximum three); 4. research project written in Italian or English; 5. curriculum vitae et studiorum; 6. 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 candidate's 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 email 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) 0103536427 relini@fisica.unige.it Administrative contact person Mrs. Noemi Pretelli (+39) 0103538752 noemi@chimica.unige.it

Course in: SCIENCE AND TECHNOLOGY 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 8710)

Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 5 – **Grants:** 5 (*).	
(*) 5 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
Modalità della valutazione comparativa	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 9.00 am at Department of Chemistry and Industrial Chemistry (DCCI), via Dodecaneso 31, 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 5/7/2021 by e-mail to grotti@unige.it (subject: PhD_interview).
Further information on how to present qualifications/publications	Evaluable qualifications: 1. educational qualifications with marks; 2. transcript of records (list of exams with marks); 3. recommendation letters (maximum three); 4. research project written in Italian or English; 5. curriculum vitae et studiorum; 6. 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 candidate's 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 by chemical, enzymatic and organocatalytic reaction pathways. 9. Synthesis and reactivity of heterocyclic compounds. 10. Phase equilibria and thermodynamics of metallic materials: experimental and theoretical aspects. 11. Intermetallic compounds: synthesis, structure, properties and technological applications. 12. Advanced metallic materials. 13. Inorganic materials (metallic and refractory) for renewable energies. 14. Polymeric, hybrid and nanocomposite materials. 15. Polymer nanostructures for photonics. 16. Membranes and membrane processes.

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 email 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) 0103538708 grotti@unige.it Administrative contact person Mrs. Noemi Pretelli (+39) 0103538752 noemi@chimica.unige.it

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

Curriculum: PHARMACEUTICAL, NUTRITIONAL AND COSMETIC SCIENCES (CODE 8711)

Coordinator: Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
Places: 3 – **Grants:** 3 (*).	
(*) 3 grants funded by the University, 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	12.7.2021 - 9.30am at Dipartimento di Farmacia (DIFAR, locali ex-DISCIFAR), viale Benedetto XV 3, 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 5/7/2021 by e-mail to: cichero@difar.unige.it (subject: PhD_interview).
Further information on how to present qualifications/publications	Evaluable qualifications: 1. educational qualifications with marks; 2. transcript of records (list of exams with marks); 3. recommendation letters (maximum three); 4. research project written in Italian or English; 5. curriculum vitae et studiorum; 6. 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 candidate's 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 and anti diabetic agents. 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 hydrophilic and amphiphilic biodegradable polyester-based dendrimers, functionalized for solubilization in biocompatible solvents of natural or synthetic insoluble drugs and their applications in drug delivery and nanomedicine. 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.

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 email to cichero@difar.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. Elena Cichero (+39) 0103538350 cichero@difar.unige.it Administrative contact person Mrs. Noemi Pretelli (+39) 0103538752 noemi@chimica.unige.it

Course in: SCIENCE AND TECHNOLOGY FOR THE ENVIRONMENT AND TERRITORY (STET)
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: BIOLOGY APPLIED TO AGRICULTURE AND TO THE ENVIRONMENT (CODE 8712)

Coordinator: Scambelluri Marco	
Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita – DISTAV)	
Places: 7 (°) – **Grants:** 5 (*).	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant cofunded by MIUR/DISTAV within the project FET-Open H2020 ECOLOPES, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
(*) 1 grant funded by Angel Consulting s.a.s., the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
(*) 1 grant funded by Foundation of 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 to employee of ITALSIA	
(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it. For CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have also to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more then 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into account for the calculation.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 - at 9.30am online interview (SKYPE) contacting in time the curriculum referring professor. (°) For **CLOE COFUND**, interviews will take place on July 7, 2021, at 9.30 am (Rome) in remote mode (Teams)
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 XXXVII Doctorate Cycle in Science and Technology for the the Environment and the Land of the Genova University (maximum ten pages); c) a document containing the title and a brief description of the Master's 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. PhD candidates can apply in English and Italian (°) For CLOE COFUND project, further information on the submission of the applications are available on the project website at the following link: cloe.dp.unige.it
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 (°) For CLOE COFUND project, further information on the submission of the applications are available on the project website at the following link: cloe.dp.unige.it

Research Themes	For the <u>CLOE COFUND PROJECT</u> the candidate has to choose one of the two proposed themes (n.1 or 2) for the preparation of the research project: Research Theme 1 H2020-MSCA-COFUND2020: Re-Wild vs Neo-settlement in mountain areas: implications on natural and anthropogenic biodiversity in Western Alps and/or North Apennines. Research Theme 2 H2020-MSCA-COFUND2020: Changes in flora and vegetation related to mountain settlements with particular regard to invasive alien species in Western Alps and/or North Apennines. Further information on research themes and on the project proposal structure are available on the project's website at the following link: cloe.dp.unige.it 3) Industrial PhD research theme reserved for Italsia s.r.l employee: Development of devices for the control of dipters and for the abatement of their microbial load in urban and industrial contexts 4) Research theme funded by ANGEL consulting s.a.s.: Evaluation of the effects on the skin physiology of substances with estrogenic activity 5) Research theme co-financed by FET-Open H2020 ECOLOPES: Vegetation dynamics within urban ecosystem and applied aspects. 6) Research theme funded by IIT: Multimodal optical nanoscopy to study chromatin organization during cell differentiation and neoplastic transformation. The candidate interested in one of the other two positions will have to choose one and only one of the following themes: 7) Inventory and sanitary evaluation of Insects and other Arthropods from urban and port contexts 8) Sustainable waste management exploiting fungal biotechnologies 9) Relationships between lichen functional traits, microclimate, and ecosystem functions: tools for studying global change. 10) Functional characterization of plant cytochrome b561: from redox reactions to flowering processes.
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.mariottii@unige.it), the responsible for the Doctorate curriculum.
Foreign Languages	(°) English is required for the <u>COFUND CLOE Project</u> For the other positions, the research project can be written in Italian, English or French, but knowledge of English 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. Mauro Mariotti: m.mariotti@unige.it

Course in: SCIENCE AND TECHNOLOGY FOR THE ENVIRONMENT AND TERRITORY (STET)
In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: EARTH SCIENCES (CODE 8713)

Coordinator: Scambelluri Marco	
Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita – DISTAV)	
Places: 5 – **Grants:** 4 (*).	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DISTAV, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (*) 1 grant funded by Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS), the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
(°) 1 places reserved to employee of Istituto Nazionale di Geofisica e Vulcanologia (INGV)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 - 9.30 am online interview (Teams and/or Skype). Interviews may continue on 14.07.2021. For information: Prof. Marco Scambelluri Dipartimento di Scienze della Terra dell'Ambiente e della Vita (DISTAV) (+39) 0103538307 marco.scambelluri@unige.it
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 XXXVII 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 thesir, 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. Candidates can write their project and application forms either in Italian or in English
Exam Syllabus	The interview will cover: 1- the general knowledge of geological themes, processes and objects both of general culture and of interest to the proposed research; 2- an in-depth discussion of the activity carried out by the candidate during his/her studies and during his/her master's degree thesis. The interview will also test the candidate's knowledge of the basic topics, of the 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 intends 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 the research topics on which the positions granted STAT Doctorate fellowships (XXXVII Cycle, Earth Sciences curriculum), are addressed. More detailed descriptions of these research topics are available on the STAT PhD website (http://www.distav.unige.it/phdstat/it - Research topics). 1) Research topic funded by the National Institute of Oceanography and Experimental Geophysics (OGS): Quasi real-time Earthquake source parameter estimation in Northern Italy. 2) Industrial PhD research topic reserved for employees of the National Institute of Geophysics and Volcanology (INGV): Calibration of empirical methods for rapid estimates of seismic parameters. An application to Northern Italy. 3) Research topic co-financed with departmental funds: Experimental investigation on induced phosphatisation of CaCO3 rich geomaterials for cultural or built heritage conservation. N. 2 institutional PhD scholarships entirely funded by the University of Genoa. Candidates interested in one of these two positions must choose only one of the following topics: 4) Evolutionary paleoecology on associations of benthic foraminifera in deltaic contexts with high anthropic impact. 5) Geological heritage and global changes. 6) Correlations between the Sardinian Ordovician volcanic arch system and the contemporary Pyrenean-Montagne Norie system: a possible reconstruction of the southern European Caledonian volcanic system? 7) Terrestrial heat flux of the Mediterranean region.
Information on references	In accordance with Art. 3, paragraph 3 Candidates must choose minimum one and maximum three referents writing a reference letter in support of their PhD application. In the application form, candidates must indicate the name, qualification and institution of each referent, who must be university professors, qualified members of major research centers and institutions, and qualified experts in the subject. Referents must send their letters in "pdf" format o the curriculum manager, Prof. Marco Scambelluri (marco.scambelluri@unige.it), by the deadline for submitting the application. Reference letters unsent directly to Prof. Scambelluri will not be considered.
Foreign Languages	English
Further Information	Further information can be requested to Prof. Marco Scambelluri (marco.scambelluri@unige.it)

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

Curriculum: ELECTRICAL ENGINEERING (CODE 8714)

Coordinator: Marchesoni Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN)	
Places: 5 – **Grants:** 4 (*).	
(*) 4 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved to employee of Phase Motion Control S.p.A.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS
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.
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 the Coordinator of the Doctoral Course at the following address: mario.marchesoni@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 in: 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: INTERACTIVE COGNITIVE ENVIRONMENTS (CODE 8716)

Coordinator: Valle Maurizio	
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 by the University, 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	12.7.2021 – 9.00am at Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Università di Genova, Via Opera Pia 11A - 16145 Genova. The interviews may also take place electronically e.g. Teams, video mode enabled to check the candidate's identity, on request to the Coordinator of the Doctoral Course, Prof. Maurizio Valle, by email message addressed to maurizio.valle@unige.it, subject: Interview Ph.D. STIET XXXVII cycle.
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 - State of the art - Objectives - Employed methods - Preliminary work plan - Expected outcomes - References
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.

Research Themes	- Imitation learn. in multisensor self-aware auton. syst. - Cooperative self-awareness for AI enabled cognitive radio - Underwater acoustic syst. for the anal. of natural and anthropogenic phenomena - Signal and Image processing as a support for diagnosis and telerehabilitation - Multiscale modeling in high-frequency electromagnetics for photobiomodulation and 2D material appl. - Deep learn. models for predicting automated driving scenarios - Edge/cloud big data management, analytics and machine learn. - Auton. agents based on deep reinforcement learn. - Novel inversion techniques for electromagnetic imaging - Design and develop. of resource-constrained syst. for machine learn. - Robotic syst. based on tactile sensing for biomedical appl. - Innovative electronic syst. for medical diagnostics in neurology - Multilinear Regression Methods for IoT Appl. in the framework of e-health services - Achieving wisdom THrough channel statE information anal. for coNtext-Aware device-free appl. - Self-similar Radio Signal Anal. for IoT Device Detection applied to Drones for Security Frameworks - New-generation Control and Management approaches for distributed and cloud-native 5G Radio Mobile Networks - Cybersecurity in 5G Radio Mobile Networks and Industry 4.0 Vertical Appl. - Probabilistic graphical models and machine learn. methods for remote sensing image anal. - Embedded edge computing machine learn. for high density sensor arrays in auton. syst. - Cybersecurity threats analysis in Satellite Networks (°) - Resource Allocation in Satellite Networks through Virtualization - Investigation, implem. and testing of experimental syst. capable of correlating physical and cyber security events, funded by IREN SpA - Investigation, implem. and testing of innovative solutions aimed at improving the security level of currently used syst., partially funded by SABABA SECURITY SRL More detailed information on the specific themes at: http://www.phd-stiet.diten.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: maurizio.valle@unige.it , with subject: Ph.D. STIET XXXVII cycle Candidate 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	More detailed information on the specific themes at: http://www.phd-stiet.diten.unige.it for further information please contact: Prof. Maurizio Valle DITEN - Università di Genova Via Opera Pia 11A 16145, Genova, Italy maurizio.valle@unige.it

(°) Information updated following communication of the course coordinator dated 13.05.2021

Course in: 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 8717)

Coordinator: Valle Maurizio	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN)	
Places: 8 (°) – **Grants:** 7 (*).	
(*) 4 grants funded by the 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 MIUR/DITEN, the gross annual amount of the scholarship is € 16.500,00 including social security contributions charged to the scholarship recipient.	
(*) 1 grant funded by IREN Spa, the gross annual amount of the scholarship is € 16.500,00 including social security contributions charged to the scholarship recipient.	
(*) 1 grant cofunded by DITEN/SABABA Security Srl, the gross annual amount of the scholarship is € 16.500,00 including social security contributions charged to the scholarship recipient.	
(°) 1 place reserved to employee of IREN Spa	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 9:00 am at Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Università di Genova, Via Opera Pia 11A - 16145 Genova. The interviews may also take place electronically e.g. Teams, video mode enabled to check the candidate's identity, on request to the Coordinator of the Doctoral Course, Prof. Maurizio Valle, by email message addressed to maurizio.valle@unige.it, subject: Interview Ph.D. STIET XXXVII cycle.
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 - State of the art - Objectives - Employed methods - Preliminary work plan - Expected outcomes - References
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.
Research Themes	• Cooperative self-awareness for AI enabled cognitive radio • Underwater acoustic syst. for the anal. of natural and anthropogenic phenomena • Signal and Image processing as a support for diagnosis and telerehabilitation • Multiscale modeling in high-frequency electromagnetics for photobiomodulation and 2D material appl. • Deep learn. models for predicting automated driving scenarios • Edge/cloud big data management, analytics and machine learn. • Auton. agents based on deep reinforcement learn. • Novel inversion techniques for electromagnetic imaging • Design and develop. of resource-constrained syst. for machine learn. • Robotic syst. based on tactile sensing for biomedical appl. • Innovative electronic syst. for medical diagnostics in neurology • Multilinear Regression Methods for IoT Appl. in the framework of e-health services • Achieving wisdom THrough channel stateE information anal. for coNtext-Aware device-free appl. • Self-similar Radio Signal Anal. for IoT Device Detection applied to Drones for Security Frameworks

	- New-generation Control and Management approaches for distributed and cloud-native 5G Radio Mobile Networks - Cybersecurity in 5G Radio Mobile Networks and Industry 4.0 Vertical Appl. - Probabilistic graphical models and machine learn. methods for remote sensing image anal. - Embedded edge computing machine learn. for high density sensor arrays in auton. syst. - Cybersecurity threats analysis in Satellite Networks (°) - Resource Allocation in Satellite Networks through Virtualization - Investigation, implem. and testing of experimental syst. capable of correlating physical and cyber security events, funded by IREN SpA - State of the art, develop. and performance anal. of algorithms for the correlation of events for the detection, prevention and reaction to attacks and anomalies, Exec. PhD, IREN SpA - Investigation, implem. and testing of innovative solutions aimed at improving the security level of currently used syst., partially funded by SABABA SECURITY SRL http://www.phd-stiet.diten.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: maurizio.valle@unige.it , with subject: Ph.D. STIET XXXVII cycle Candidate 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	More detailed information on the specific themes at: http://www.phd-stiet.diten.unige.it For further information please conntact: Prof. Maurizio Valle DITEN - Università di Genova Via Opera Pia 11A 16145, Genova, Italy maurizio.valle@unige.it

(°) Information updated following communication of the course coordinator dated 13.05.2021

Course in: 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: COMPUTER VISION, PATTERN RECOGNITION AND MACHINE LEARNING (CODE 8718)

Coordinator: Valle Maurizio	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN)	
Places: 2 – **Grants:** 2 (*).	
(*) 2 grants funded by Foundation of 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 AND INTERVIEW
Interview	13.7.2021 – 9:00 at IIT, Istituto Italiano di Tecnologia, Via Enrico Melen, 83, Genova The interviews may also take place electronically through MS Teams with video mode enabled to check the candidate's identity, upon request sent by email 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 XXXVII cycle.
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
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.
Research Themes	Theme A: 3D scene understanding with geometrical and deep learning reasoning Theme B: Artificial Intelligence for Human Behavior Analysis Theme C: Deep Learning for Multi-modal scene understanding Theme D: Self-Supervised and Unsupervised Deep Learning Theme E: Visual Reasoning with Knowledge and Graph Neural Networks for scene understanding More detailed information on the specific themes and indication of tutors, at https://pavisdata.iit.it/data/phd/2022_PhD_research_topics_PAVIS_IIT.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 XXXVII 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

Prof. Maurizio Valle
DITEN - Università di Genova
Via Opera Pia 11A
16145, Genova, Italy
Maurizio.valle@unige.it

Course in: PAEDIATRIC SCIENCES
In agreement with IRCCS Istituto Giannina Gaslini

Curriculum: ENDOCRINOLOGY AND DIABETOLOGY (CODE 8719)

Coordinator: Minetti Carlo	
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 the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	7.7.2021 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI), Aula Magna, Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti (minettic@unige.it) and Rosanna Rizzo (rosanna.rizzo@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.
Exam Syllabus	Interview contents: - previous research work experience, including the one concerning the degree thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of the English language.
Research Themes	Deepening of new methodologies for the diagnosis and treatment of endocrinometabolic pathologies of the developmental age, with particular regard to hypothalamic-pituitary diseases affecting the "Network" of the complex metabolic endocrine system, to midline pathologies associated with endocrinopathies and various organ diseases including diabetes mellitus.
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 Prof. Carlo Minetti minettic@unige.it and copy to: rosanna.rizzo@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English

Course in: PAEDIATRIC SCIENCES
In agreement with IRCCS Istituto Giannina Gaslini

Curriculum: GENETICS (CODE 8720)

Coordinator: Minetti Carlo	
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 the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by DINOGMI, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (*) 1 grant cofunded by MIUR//DINOGMI, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (*) 1 grant funded by A.I.S.I.C.C. Associazione italiana per la Sindrome da Ipoventilazione Centrale Congenita, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (°)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	7.7.2021 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI), Aula Magna, Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti (minettic@unige.it) and Rosanna Rizzo (rosanna.rizzo@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.
Exam Syllabus	Interview contents: - previous research work experience, including the one concerning the degree thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English language
Research Themes	- New knowledge on the human genome including investigations with new technologies - Identification of disease genes, their mutations, their consequences in the mechanism of molecular and cellular disease and correlations with the clinical phenotype - Identification of specific aspects of the pathogenetic mechanisms that can represent targets of therapeutic approaches - Gene structure and control of gene expression
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 Prof. Carlo Minetti minettic@unige.it and copy to: rosanna.rizzo@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English

(°) 1 grant added following the agreement dated 24.5.2021

Course in: PAEDIATRIC SCIENCES
In agreement with IRCCS Istituto Giannina Gaslini

Curriculum: MUSCULAR, NEURODEGENERATIVE, METABOLIC DISEASES IN CHILDREN, ADOLESCENTS (CODE 8721)

Coordinator: Minetti Carlo	
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 the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	7.7.2021 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI), Aula Magna, Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti (minettic@unige.it) and Rosanna Rizzo (rosanna.rizzo@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.
Exam Syllabus	Interview contents: - previous research work experience, including the one concerning the degree thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of the English language.
Research Themes	Deepening of new methodologies for the prevention, diagnosis and treatment of neuropediatric pathologies of the developmental age, with particular regard to neuromuscular diseases and neurodegenerative, neuro-metabolic and in general genetic-metabolic pathologies, to the epilepsies of the pediatric age of genetic origin and / or of possible neurosurgical interest, to neural tube defects and cortical migration and neurofibromatosis. The molecular and environmental factors of the development of the nervous system and the etiological aspects and pathogenetics of congenital hypotonias, primary myopathies, spinal muscular atrophies, mitochondrial encephalopathies, leukoencephalopathies, epileptic encephalopathies and metabolic encephalopathies will be studied.
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 Prof. Carlo Minetti minettic@unige.it and copy to: rosanna.rizzo@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English

Course in: PAEDIATRIC SCIENCES
In agreement with IRCCS Istituto Giannina Gaslini

Curriculum: FOETAL-PERINATAL AND PAEDIATRIC PATHOLOGY (CODE 8722)

Coordinator: Minetti Carlo	
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 the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	7.7.2021 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI), Aula Magna, Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti (minettic@unige.it) and Rosanna Rizzo (rosanna.rizzo@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.
Exam Syllabus	Interview contents: - previous research work experience, including the one concerning the degree thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of the English language.
Research Themes	- Malformative pathology isolated or inserted in syndromic pictures - Pathology of the development and maturation of the fetus and consequent adaptive capacities at the moment of birth - Placental pathology linked to preterm parts and severe prematurity - Fetal, neonatal and pediatric cardio-vascular pathology - Neonatal neurological damage - Dysplastic and teratomatous pathology - Neoplastic pathology
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 Prof. Carlo Minetti minettic@unige.it and copy to: rosanna.rizzo@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English

Course in: PAEDIATRIC SCIENCES
In agreement with IRCCS Istituto Giannina Gaslini

Curriculum: PAEDIATRIC RHEUMATOLOGY (CODE 8723)

Coordinator: Minetti Carlo	
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 DINOGMI, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	7.7.2021 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI), Aula Magna, Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti (minettic@unige.it) and Rosanna Rizzo (rosanna.rizzo@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.
Exam Syllabus	Interview contents: - previous research work experience, including the one concerning the degree thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of the English language.
Research Themes	Deepening of new methodologies for the diagnosis and treatment of rheumatological pathologies in pediatric field, with particular regard to Juvenile Idiopathic Arthritis and other autoimmune diseases and autoinflammatory syndromes.
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 Prof. Carlo Minetti minettic@unige.it and copy to: rosanna.rizzo@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English

Course in: PAEDIATRIC SCIENCES
In agreement with IRCCS Istituto Giannina Gaslini

Curriculum: PAEDIATRIC SPECIALITIES (CODE 8724)

Coordinator: Minetti Carlo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI)	
Places: 6 – **Grants:** 6 (*)	
(*) 1 grant funded by DINOGMI, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (*) 4 grants funded by IRCCS Istituto G. Gaslini, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (*) 1 grant funded by Associazione per la ricerca sui tumori cerebrali del bambino, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
Comparative assessment procedure	QUALIFICATION S/PUBLICATIONS AND INTERVIEW
Interview	7.7.2021 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI), Aula Magna, Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti (minettic@unige.it) and Rosanna Rizzo (rosanna.rizzo@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.
Exam Syllabus	Interview contents: - previous research work experience, including the one concerning the degree thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of the English language.
Research Themes	Deepening of new methodologies for the diagnosis and treatment of pertinent pediatric medical or surgical pathologies, with particular regard to the specialties at the G. Gaslini Institute.
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 Prof. Carlo Minetti minettic@unige.it and copy to: rosanna.rizzo@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English

Course in: SOCIAL SCIENCES

Curriculum: MIGRATIONS AND INTERCULTURAL PROCESSES (CODE 8725)

Coordinator: Andrighetto Luca	
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
Places: 3 (°) – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it. For CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have also to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more then 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into account for the calculation.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	9.7.2021 - 9.00 am at the Department of Education Sciences (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 Skype 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 email to the President's committee and curriculum coordinator, within 7.7.2021 - 12 pm (local timezone). In the email, the candidate's name, surname, and the Skype address must be specified. (°) For **CLOE COFUND project**, interviews will take place on July 6, 2021, at 10.00 am (Rome) in remote mode (Teams). Further information at the following link: https://cloe.dp.unige.it.
Further information on how to present qualifications/publications	For the admission to the interview, a minimum score, decided by the Commission, and resulting from the qualifications and the project evaluation, is required. The following will be assessed: 1. The quality of the research project presented. 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. 5. Specific experiences relevant to the Doctorate themes (°) For CLOE COFUND project, further information on the submission of the applications are available on the project website at the following link: https://cloe.dp.unige.it
Exam Syllabus	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. (°) For CLOE COFUND project, further information on the selection procedures are available on the project website at the following link: https://cloe.dp.unige.it
Research Themes	- Integration, acculturation and identity construction processes through different levels of analysis (individual, family, group) - 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. 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). (°) CLOE COFUND Project: Research Theme 1 H2020-MSCA-COFUND2020, project n. 1: Neo-settlement in rural and

	mountain areas: cultural encounters and social boundaries in local contexts over the last 50 years. Research Theme 2 H2020-MSCA-COFUND2020, project n. 2: Migration and refugee's experience in mountain areas and territorial democracy. The candidate has to choose one of the two proposed themes for the preparation of the research project. Further information on research themes and on the project proposal structure are available on the project's website at the following link: https://cloe.dp.unige.it .
Information on references	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score. (°) For the COFUND CLOE project it is possible to submit up to 3 reference letters to support the application.
Foreign Languages	English, French, Spanish
Further Information	Website: https://scienzesociali.dottorato.unige.it/ Curriculum Coordinator: Prof. Nadia Rania, DISFOR, C.so Podestà, 2, Genova nadia.rania@unige.it Supervisor COFUND-CLOE project: Prof. Luca Queirolo Palmas, DISFOR, C.so Podestà, 2, Genova Luca.palmas@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.ssa Francesca Figus, DISFOR, C.so Podestà 2 dottoratoscienzesociali.disfor@unige.it

Course in: SOCIAL SCIENCES

Curriculum: PSYCHOLOGY AND COGNITIVE SCIENCES (CODE 8726)

Coordinator: Andrighetto Luca	
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
Places: 3 – **Grants:** 3 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DISFOR, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 10.00 am The interview will take place electronically, through Teams or Skype 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 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. 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. Skills of critical thinking. Body expressions, gestures and language. Implicit aspects in the expression of attitudes and in clinical manifestations. Perceptive and attentive foundations of abstract symbols and concepts. Cognitive ergonomics. Non-technical skills and high-fidelity simulation. Human-machine interaction and interaction design. Experimental pragmatic. Neuropsychology of language. Aging. Psychology of tourism. Statistical learning. 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. - Prejudice and dehumanizing processes in interpersonal and intergroup relationships. Social perception of digital technologies. Quality of working life and psychosocial risks. Leadership. Professional development and training. - Psychopathological disorders/symptoms and emotional regulation in middle childhood, 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.
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.ssa Cecilia Serena Pace, DISFOR, Corso Podestà 2, 16128 Genova 010 20953728 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.ssa Francesca Figus, DISFOR, C.so Podestà 2 dottoratoscienzesociali.disfor@unige.it

Course in: SOCIAL SCIENCES

Curriculum: POLITICAL SCIENCES (CODE 8727)

Coordinator: Andrighetto Luca	
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
Places: 2 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 - 9.30 am at the Dipartimento di Scienze Politiche (DISPO), 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 email to the President's committee and curriculum coordinator, within 9.7.2021 - 11 am (local timezone). In the email, 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 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 - 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 two European languages (Italian, English, French and Spanish) 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.
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, French, Spanish
Further Information	Website: https://scienzesociali.dottorato.unige.it/ Curriculum Coordinator: Prof. Prof. Paolo Parra Saiani, DISPO, piazzale Emanuele Brignole 3a, Genova; (+39) 01020951171, 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.ssa Francesca Figus, DISFOR, C.so Podestà 2 dottoratoscienzesociali.disfor@unige.it

Course in: SOCIAL SCIENCES

Curriculum: SOCIOLOGY (CODE 8728)

Coordinator: Andrighetto Luca	
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
Places: 2 – **Grants:** 2 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	15.7.2021 – 11:00 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 email to the President's committee and curriculum coordinator, within 13.7.2021 - 11 am (local timezone). In the email, 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 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 discussion of the research project and of 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 organizations 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. Nonetheless, any reference letters 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
	tel. +39 010 209-53731
	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.ssa Francesca Figus, DISFOR, C.so Podestà 2
	dottoratoscienzesociali.disfor@unige.it

Course in: 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 8729)

Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 6 – **Grants:** 6 (*).	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIBRIS, in memory of Bruno Pellero. The gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (*) 3 grants funded by Fondazione FBK, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	14.7.2021 – 9.00 am electronically by contacting the coordinator of the curriculum, Prof. Luca Oneto (luca.oneto@unige.it), at least 7 days before the assessment. The candidate must have a reliable internet connection, in order to allow the test to take place. The interviews may continue on the following days.
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: - Cybersecurity of distributed systems (ad es, Mobile, Cloud, Web, IoT) - Data Protection and Privacy - Reliability of Artificial Intelligence FBK research lines are: - Explainable Machine Learning in Network Security - Programmable Network-wide Robustness and Security - Formal design and safety assessment for complex systems and software Information and advice on how to write the research project are available at the web page http://sicurezza.unige.it/dottorato. Candidates are invited to get in contact with the Curriculum Coordinator to obtain additional details about the research themes.
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 email address: luca.oneto@unige.it. 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	Coordinatore of the Curriculum: Prof. Luca Oneto DIBRIS, Opera Pia 11a, Genova luca.oneto@unige.it

Course in: 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 8730)

Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 3 (°) – **Grants:** 2 (*).	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved to employee of TIM	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	13.7.2021 - 9:00 am at Department, meeting room of the former Constitutional Law Section, 3rd floor, (7B), via Balbi 22, Genova. Interview by Skype is possible as well. The interview can be scheduled on the following days 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, e-Government and Rule of 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
	   - 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 and advice on how to write the research project are available at the web page http://sicurezza.unige.it/dottorato. Candidates are invited to get in contact with the Curriculum Coordinator to obtain additional details about the research themes.

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 following email address: giorgio.afferni@unige.it. 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	Curriculum Coordinator Prof. Giorgio Afferni DiGi, Univrsità di Genova giorgio.afferni@unige.it

Course in: 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 8731)

Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 3 – **Grants:** 3 (*).	
(*) 3 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	8.7.2021 – 9.00 am electronically by contacting the coordinator of the curriculum, Prof. Giampiero Cama (gcama@unige.it), at least 7 days before the assessment. The candidate must have a reliable internet connection, in order to allow the test to take place. The interviews may continue on the following days.
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 and advice on how to write the research project are available at the web page http://sicurezza.unige.it/dottorato. Candidates are invited to get in contact with the Curriculum Coordinator to obtain additional details about the research themes.
Information on references	Candidates must choose two 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 following email address: gcama@unige.it. 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	Curriculum Coordinator Prof. Giampiero Cama DISPO, Università di Genova gcama@unige.it

Course in: 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 8732)

Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 2 – **Grants:** 2 (*).	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 10.00 am by Skype Candidates will receive information (in case of high number of applications interviews could be scheduled on the days after).
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. Documents must be sent in electronic form.
Exam Syllabus	The interview will be 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	Lines of research characterizing the curriculum are focused on the following macro-areas - industry analysis and case studies, in relationship to security - security as shared topic among organizations (deepened as, for example, business ethics, sustainability and environmental management, Technology, innovation and knowledge management, organizational issues, performance and crisis management, alternative finance, risk management and performance, turnaround: retrenchment and recovery, compliance, financial reporting transparency, accounting scandals and crisis communication. Information and advice on how to write the research project are available at the web page http://sicurezza.unige.it/dottorato. Candidates are invited to get in contact with the Curriculum Coordinator to obtain additional details about the research themes.
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 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	Curriculum Coordinatore Prof.ssa Teresina Torre DIEC, Via Vivaldi 5. Genova teresina.torre@economia.unige.it

Course in: 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 8733)

Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 3 – **Grants:** 3 (*)	
(*) 2 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DICCA, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 - 9:00 am at Biblioteca Baldacci del Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1 16145 Genova. The interview can be scheduled on the following days, in case of high number of applications. Candidates who are interested or if necessary due to the health situation, may request the interview to be held electronically (via Skype) by contacting the curriculum referee Prof. Serena Cattari (serena.cattari@unige.it) at least 15 days before the assessment. The candidate must have a reliable internet connection, in order to allow the test to take place.
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	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 researches 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. The grant (partially funded by the University of Genoa and by professors of DICCA department) will deal with one of three possible research topics, already outlined and described at https://sicurezza.unige.it (or http://dottorato.dicca.unige.it/eng/rrenib/) Information and advice on how to write the research project are available at the web page http://sicurezza.unige.it/dottorato. Candidates are invited to get in contact with the Curriculum Coordinator to obtain additional details about the research themes.
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 following email address: serena.cattari@unige.it. 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	Curriculum Coordinator Prof. Serena Cattari DICCA – Via Montallegro 1 16145 Genova serena.cattari@unige.it

Course in: SECURITY, RISK AND VULNERABILITY

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

Curriculum: RISK, CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT (CODE 8734)

Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 2 – **Grants:** 2 (*)	
(*) 2 grants funded by CIMA Foundation, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	9.7.2021 – 9.00 am electronically by contacting the coordinator of the curriculum, Prof. Luca Ferraris (luca.ferraris@unige.it), at least 7 days before the assessment. The candidate must have a reliable internet connection, in order to allow the test to take place. The interviews may continue on the following days.
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: - International cooperation for risk informed civil protection and sustainable development - Capacity development for civil protection - Governance, risk management and legal responsibility - Climate related water, food, energy security - Climate displacement and migrations - Climate scenarios at large scale, adaptation and behavioral change - Climate and anthropic impact on marine bio-ecosystem - Wildfire Risk Management and Forest Conservation - End to end Early Warning Systems - Risk perception and crisis communication - Climate- and health-related risks Information and advice on how to write the research project are available at the web page http://sicurezza.unige.it/dottorato. Candidates are invited to get in contact with the Curriculum Coordinator to obtain additional details about the research themes.
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 email address: luca.ferraris@unige.it. 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	Curriculum Coordinator Prof. Luca Ferraris DIBRIS, Campus Universitario, Savona luca.ferraris@unige.it

Course in: HISTORY, ART HISTORY AND ARCHEOLOGY

Curriculum: HISTORY (CODE 8735)

Coordinator: Cassata Francesco	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)	
Places: 10 (°) – **Grants:** 9 (*)	
(*) 6 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIRAAS/Scuola di Scienze Umanistiche, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. Grants funded by the University and cofounded by MIUR/DIRAAS/Scuola di Scienze Umanistiche 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.	
(*) 1 grant funded by Fondazione Ansaldo on the theme "The evolution of occupational welfare as strategy for the development of the 'corporate identity': the case-study of Ansaldo", the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by INGV on the theme "Climate change through historical oceanographic data and images: Analysis of the book collection (16th-18th centuries) of the National Institute of Geophysics and Volcanology in Portovenere (SP)", the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. Grants funded by Fondazione Ansaldo and INGV stand on History curriculum. (°°)	
(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it. For CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have also to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more then 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into account for the calculation. Position covered by research grant (CLOE COFUND project) stand on Archeology curriculum.	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 9:30 am in remote way (TEAMS)
Further information on how to present qualifications/publications	Besides the qualifications/publications requested in the public notice exam, candidates are requested to submit by means of the online procedure together with their applications: a) the four year degree thesis, or specialist, or II level degree thesis (in pdf format) which will be evaluated; b) any publications (in pdf format), which will be evaluated; c) a brief description of the research project proposed by the candidate (maximum 30,000 strokes plus an annotated bibliography), which will be evaluated. The project must be organized according to the following points: 1) Objectives; 2) Sources and state of the art; 3) Importance for the advancement of knowledge; 4) Proposed methodology; 5) A developmental work plan. CVs, titles, theses, publications and research projects must be presented in pdf format, attached to the application. Only the titles and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the degree diploma, which will be assessed even if previous) will be assessed and deemed congruent with the research topics of the PhD course and include: 1) Master's degree or four-year degree (old system) or qualification deemed equivalent; the thesis will be evaluated; 2) Scientific publications, consistent with the themes of the doctorate: - monografie; - essays in scientific journals (band A or B in the ANVUR classification);

	- essays in collective volumes - short essays, historical-critical factsheets. 3) Others: - Degrees obtained following the completion of specialization and / or specialization and / or advanced training courses, Masters in subjects related to the research courses of the PhD course; - PhD Diploma; - Second degree in subjects related to the research courses of the PhD course; - Scholarships, Awards, Fellowships; - Research activity carried out at scientific institutions; - Didactic activity carried out at university institutions; - Curricular study experiences abroad; - Internships, traineeships and professional experiences related to the research courses of the PhD course; - Expert of the subject or member of exam commissions in the university environment.
Exam Syllabus	The interview will concern the presentation and discussion of the research project by the candidate and is aimed at verifying its aptitude for scientific research The evaluation will be based on the following criteria: - argumentative skills in the presentation of the research project, knowledge of the state of the art and general preparation on themes and topics related to the project; - foreign language knowledge
Research Themes	The research topics of the grants funded by University, MIUR/DIRAAS/Scuola di Scienze Umanistiche, Fondazione Ansaldo and INGV are indicated on the PhD presentation page: (°°) http://www.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-architettonico-e-ambientale/
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, French, German and Spanish
Further Information	Prof. Francesco Cassata francesco.cassata@unige.it

(°°) Information updated following communication of the course coordinator dated 12.05.2021

Course in: HISTORY, ART HISTORY AND ARCHEOLOGY

Curriculum: ART HISTORY (CODE 8736)

Coordinator: Cassata Francesco	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)	
Places: 10 (°) – **Grants:** 9 (*)	

(*) 6 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.
(*) 1 grant cofunded by MIUR/DIRAAS/Scuola di Scienze Umanistiche, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.

Grants funded by the University and cofounded by MIUR/DIRAAS/Scuola di Scienze Umanistiche 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.

(*) 1 grant funded by Fondazione Ansaldo on the theme "The evolution of occupational welfare as strategy for the development of the 'corporate identity': the case-study of Ansaldo", the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.
(*) 1 grant funded by INGV on the theme "Climate change through historical oceanographic data and images: Analysis of the book collection (16th-18th centuries) of the National Institute of Geophysics and Volcanology in Portovenere (SP)", the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.

Grants funded by Fondazione Ansaldo and INGV stand on History curriculum. (°°)

(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it. For CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have also to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more then 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into account for the calculation.

Position covered by research grant (CLOE COFUND project) stand on Archeology curriculum.

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 9:30 am in remote way (TEAMS)
Further information on how to present qualifications/publications	Besides the qualifications/publications requested in the public notice exam, candidates are requested to submit by means of the online procedure together with their applications: a) the four year degree thesis, or specialist, or II level degree thesis (in pdf format) which will be evaluated; b) any publications (in pdf format), which will be evaluated; c) a brief description of the research project proposed by the candidate (maximum 30,000 strokes plus an annotated bibliography), which will be evaluated. The project must be organized according to the following points: 1) Objectives; 2) Sources and state of the art; 3) Importance for the advancement of knowledge; 4) Proposed methodology; 5) A developmental work plan. CVs, titles, theses, publications and research projects must be presented in pdf format, attached to the application. Only the titles and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the degree diploma, which will be assessed even if previous) will be assessed and deemed congruent with the research topics of the PhD course and include: 1) Master's degree or four-year degree (old system) or qualification deemed equivalent; the thesis will be evaluated; 2) Scientific publications, consistent with the themes of the doctorate: - monografie; - essays in scientific journals (band A or B in the ANVUR classification);

	- essays in collective volumes - short essays, historical-critical factsheets. 3) Others: - Degrees obtained following the completion of specialization and / or specialization and / or advanced training courses, Masters in subjects related to the research courses of the PhD course; - PhD Diploma; - Second degree in subjects related to the research courses of the PhD course; - Scholarships, Awards, Fellowships; - Research activity carried out at scientific institutions; - Didactic activity carried out at university institutions; - Curricular study experiences abroad; - Internships, traineeships and professional experiences related to the research courses of the PhD course; - Expert of the subject or member of exam commissions in the university environment.
Exam Syllabus	The interview will concern the presentation and discussion of the research project by the candidate and is aimed at verifying its aptitude for scientific research The evaluation will be based on the following criteria: - argumentative skills in the presentation of the research project, knowledge of the state of the art and general preparation on themes and topics related to the project; - foreign language knowledge
Research Themes	The research topics of the grants funded by University and MIUR/DIRAAS/Scuola di Scienze Umanistiche are indicated on the PhD presentation page: http://www.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-architettonico-e-ambientale/
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, French, German and Spanish
Further Information	Prof.ssa Paola Valenti paola.valenti@unige.it

(°°) Information updated following communication of the course coordinator dated 12.05.2021

Course in: HISTORY, ART HISTORY AND ARCHEOLOGY

Curriculum: ARCHEOLOGY (CODE 8737)

Coordinator: Cassata Francesco	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)	
Places: 10 (°) – **Grants:** 9 (*)	
(*) 6 grants funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DIRAAS/Scuola di Scienze Umanistiche, the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. Grants funded by the University and cofounded by MIUR/DIRAAS/Scuola di Scienze Umanistiche 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.	
(*) 1 grant funded by Fondazione Ansaldo on the theme "The evolution of occupational welfare as strategy for the development of the 'corporate identity': the case-study of Ansaldo", the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by INGV on the theme "Climate change through historical oceanographic data and images: Analysis of the book collection (16th-18th centuries) of the National Institute of Geophysics and Volcanology in Portovenere (SP)", the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. Grants funded by Fondazione Ansaldo and INGV stand on History curriculum. (°°)	
(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it. For CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have also to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more then 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into account for the calculation. Position covered by research grant (CLOE COFUND project) stand on Archeology curriculum.	

Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	12.7.2021 – 9:30 am in remote way (TEAMS) (°) For **CLOE COFUND project**, interviews will take place on July 7, 2021, at 9.30 am (Rome) on Microsoft Teams
Further information on how to present qualifications/publications	Besides the qualifications/publications requested in the public notice exam, candidates are requested to submit by means of the online procedure together with their applications: a) the four year degree thesis, or specialist, or II level degree thesis (in pdf format) which will be evaluated; b) any publications (in pdf format), which will be evaluated; c) a brief description of the research project proposed by the candidate (maximum 30,000 strokes plus an annotated bibliography), which will be evaluated. The project must be organized according to the following points: 1) Objectives; 2) Sources and state of the art; 3) Importance for the advancement of knowledge; 4) Proposed methodology; 5) A developmental work plan. CVs, titles, theses, publications and research projects must be presented in pdf format, attached to the application. Only the titles and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the degree diploma, which will be assessed even if previous) will be assessed and deemed congruent with the research topics of the PhD course and include: 1) Master's degree or four-year degree (old system) or qualification deemed equivalent; the thesis will be evaluated; 2) Scientific publications, consistent with the themes of the doctorate:

	- monografie; - essays in scientific journals (band A or B in the ANVUR classification); - essays in collective volumes - short essays, historical-critical factsheets. 3) Others: - Degrees obtained following the completion of specialization and / or specialization and / or advanced training courses, Masters in subjects related to the research courses of the PhD course; - PhD Diploma; - Second degree in subjects related to the research courses of the PhD course; - Scholarships, Awards, Fellowships; - Research activity carried out at scientific institutions; - Didactic activity carried out at university institutions; - Curricular study experiences abroad; - Internships, traineeships and professional experiences related to the research courses of the PhD course; - Expert of the subject or member of exam commissions in the university environment. (°) For CLOE COFUND PROJECT, further information on the submission of the applications are available on the project website at the following link https://cloe.dp.unige.it
Exam Syllabus	The interview will concern the presentation and discussion of the research project by the candidate and is aimed at verifying its aptitude for scientific research The evaluation will be based on the following criteria: - argumentative skills in the presentation of the research project, knowledge of the state of the art and general preparation on themes and topics related to the project; - foreign language knowledge (°) For CLOE COFUND PROJECT, further information at the following link https://cloe.dp.unige.it
Research Themes	The research topics of the grants funded by University and MIUR/DIRAAS/Scuola di Scienze Umanistiche are indicated on the PhD presentation page: http://www.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-architettonico-e-ambientale/. (°) For the CLOE COFUND PROJECT the candidate has to choose one of the two proposed themes for the preparation of the research project: Research Theme H2020-MSCA-COFUND2020, project n. 1: History and archaeology of collective domains and commons, present past and future; Research Theme H2020-MSCA-COFUND2020, project n. 2: Heritage and heritagisation processes and territorial policies (18th-21th c.). Further information on research themes and on the project proposal structure are available on the project's website at the following link: https://cloe.dp.unige.it.
Information on references	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score. (°) For the CLOE COFUND PROJECT it is possible to submit up to 3 reference letters to support the application to send to anna.stagno@unige.it
Foreign Languages	English, French, German and Spanish (°) For CLOE COFUND PROJECT: English
Further Information	Prof. Fabrizio Benente fabrizio.benente@unige.it (°) Per il posto relativo al progetto H2020-MSCA-COFUND2020, Prof.ssa Anna Maria Stagno: anna.stagno@unige.it

(°°) Information updated following communication of the course coordinator dated 12.05.2021

Course in: STRATEGIC ENGINEERING (CODE 8738)

Doctoral Course in agreement with École nationale supérieure des mines d'Alès (IMT Mines Alès) - France, Universidad de la Rioja - Spain and Óbuda University - Hungary

Coordinator: Sciomachen Anna Franca	
Department of Economics (Dipartimento di Economia – DIEC)	
Places: 4 – **Grants:** 3 (*) (°)	
(*) 1 grant funded by the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 2 grants funded by Department of Economics within the project ALACRES 2, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved to employee of Decima Europe Srl (°)	
4 additional grants will be announced by École nationale supérieure des mines d'Alès (IMT Mines Alès) - France, Universidad de la Rioja - Spain and Óbuda University – Hungary. Thus, there are overall 7 places available for the curriculum, 7 of which with grants.	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	15.7.2021 – 2.30pm at DIEC, Università di Genova, Genova or remotely. Interviews may take place online (skype or Teams) with to verify the identity to to course Coordinator Prof. Anna Sciomachen, email sciomach@economia.unige.it.
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 evaluative parameters: publications done (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. The outline for the presentation of the research project plan, which should not exceed 10 should give an idea of the motivations and logic foundation, objectives and a preliminary.
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. The interviews may also take place electronically with a Skype or Teams connection, video included to check identity, on request to the Coordinator of the Doctoral Course, Prof. Anna Sciomachen, by email to sciomach@economia.unige.it.
Research Themes	1. Complex Systems Analysis 2. Computational Intelligence & AI 3. Conflict management 4. Crowdsourcing 5. Cyber Security 6. Decision Making 7. Game Theory 8. Green Transition 9. Modelling 10. International & Law Affairs 11. Logistics & Supply Chain Management 12. Modeling (Human Behavior, Systems) 13. Optimization: Models and Methods 14. Project Management 15. Simulation 16. Safety and security 17. Sanitation, Hygiene 18. Risk Analysis 19. Strategic Engineering 20. Strategic Planning & Management 21. Strategies in: Defence & Aerospace, Economy, Health care, Industry and Industrial Plants, Informatics & Communication Technologies, Water 22. Systems Engineering. More detailed information on the specific themes at the web site: www.simulationteam.com/strategos/phd.
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	For further information please contact the Doctoral Program Committee Members: Agostino Bruzzone (agostino@itim.unige.it), Elvezia Cepolina (elvezia.maria.cepolina@unige.it), Anna Sciomachen (sciomach@economia.unige.it).

(°) 1 place added following the agreement dated 31.05.2021