ANNEX A

SCIENTIFIC DISCIPLINARY AREA MATHEMATICS AND INFORMATICS

RESEARCH PROGRAM NO. 1

The assessment criteria for the qualifications and the interview will be affixed on 24.02.2020 at 9.00 in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 24.02.2020 at 12.00 in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

The interview will be held on 24.02.2020 at 13.00 in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Michele Piana, via the email address: piana@dima.unige.it

Scientific coordinator: Prof. Michele PIANA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Artificial Intelligence for the Analysis of Solar Flares Data.

Description: This proposal focuses on the application of artificial intelligence methods for the exploitation of multi-energy and multi-modal space observations of solar flares. The specific objectives are to apply machine learning methods against full-disk magnetograms in order to identify the magnetic properties that mostly impact the occurrence of extreme flaring events; to apply inverse problems methods against extreme ultraviolet images in order to determine in details the flare morphology even in the case of complex and highly energetic events; to apply inverse problems methods against hard X-ray data in order to infer information on the electron acceleration in the flaring loops. This project requires skills concerned with regularization methods for inverse problems and machine learning, numerical optimization, image and signal processing methods.

Scientific disciplinary sector: MAT/08 ANALISI NUMERICA

Place: Dipartimento di Matematica (DIMA)

Required degree:

Subjects of the interview:
The interview will mainly assess the candidate’s knowledge about regularization methods for the numerical solutions of inverse problems and machine learning problems, with focus on image reconstruction and image processing.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 2

The assessment criteria for the qualifications and the interview will be affixed on 02.03.2020 at 11.00 in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 02.03.2020 at 17.00 in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on 03.03.2020 at 14.00 in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Silvano Tosi on the phone number +39 010 3536683 or via the email address: tosi@ge.infn.it

Scientific coordinator: Prof. Silvano TOSI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Preparation of the Antola Observatory as a testbench for astrophysical instrumentation and multi-messenger study of sources of very high energy particles.

Description: The candidate will finalize the set-up of the astronomical observatory of the Antola Reserve so that it will become useful as a test bench for different optical and astrophysical instruments before installation in the final location and at the same time will carry on one of the main topics of research initiated at the observatory, the characterization and study of sources of neutrinos and very high energy photons in synergy with the KM3Net experiment, an experiment in which the candidate will work for at least half of the time.

Scientific disciplinary sector: FIS/01 FISICA SPERIMENTALE

Place: Dipartimento di Fisica (DIFI)

Required degree: Dottorato di ricerca in Fisica.

Subjects of the interview: Photometry of extra-galactic astrophysical sources; multi-messenger astronomy; detection of neutrinos of astrophysical origin.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 3

The assessment criteria for the qualifications and the interview will be affixed on 26.02.2020 at 12.00 in Dipartimento di Farmacia (DIFAR), Viale Benedetto XV, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.02.2020 at 13.00 in Dipartimento di Farmacia (DIFAR), Viale Benedetto XV, Genova.

The interview will be held on 28.02.2020 at 10.00 in Dipartimento di Farmacia (DIFAR), Viale Benedetto XV, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof.ssa Silvia Schenone via the email address: schenone@difar.unige.it

Scientific coordinator: Prof.ssa Silvia SCHENONE

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19,367,00

Title: Synthesis and biological evaluation of inhibitors of protein kinases involved in the development and growth of glioblastoma.

Description: Protein kinases are a family of enzymes which are involved in the onset and development of many cancers, including glioblastoma (GB). GB is the most common and aggressive brain tumor, and it still lacks of an efficient pharmacological therapy. As part of the project relating to an AIRC research grant, protein kinase inhibitors endowed with a pyrazolo-pyrimidine scaffold, which already resulted active on different cancers, will be synthesized as potential antiproliferative agents on GB cell lines. The synthesis will be guided by molecular modelling studies. The new derivatives will be tested in enzymatic assays on a panel of kinases and the most active compounds will be evaluated on GB cell lines.

Scientific disciplinary sector: CHIM/08 CHIMICA FARMACEUTICA

Place: Dipartimento di Farmacia (DIFAR)

Required degree:
Laurea V.O. in Farmacia, Chimica e Tecnologia Farmaceutiche, Laurea Specialistica della classe 14/S Farmacia e farmacia industriale, Laurea Magistrale della classe LM-13 Farmacia e farmacia industriale.

Subjects of the interview:
Analytical and synthetic procedures for the synthesis of pyrazolo-pyrimidines. Protein kinases as targets of anticancer compounds. Biological evaluation of protein kinase inhibitors.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 4

The assessment criteria for the qualifications and the interview will be affixed on 26.02.2020 at 9.30 in Dipartimento di Scienze della Terra, Dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.02.2020 at 9.30 in Dipartimento di Scienze della Terra, Dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova.

The interview will be held on 04.03.2020 at 10.00 in Dipartimento di Scienze della Terra, Dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Marino VETUSCHI ZUCCOLINI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19,367.00

Title: Development of C/C++ geochemical speciation computation routines integrated with in-situ sensors on board of Remotely Operated Vessels.

Description: The contract is finalized to the development of communication interfaces with real-time environmental sensors mounted on ROV (Remotely Operated Vessels) and the development of a geochemical computational module derived from an OpenSource code for aqueous speciation implementing new solutions for activity coefficient calculation in real-time.

Scientific disciplinary sector: GEO/08 GEOCHIMICA E VULCANOLOGIA

Place: Dipartimento di Scienze della Terra, Dell'Ambiente e della Vita (DISTAV)


Subjects of the interview: Good knowledge of C/C++ programming language and Arduino platform; good knowledge for analysis and reuse of a preexistent code, preferring scientific ones; Could be an advantage for the applicant previous experiences in scientific programming in geochemical topics with Phreeqc, PhreeqRM and IPhreeqc. The applicant should satisfy: good knowledge of C/C++ programming language and Arduino platform; good knowledge for analysis and reuse of a preexistent code, preferring scientific ones; could be an advantage for the applicant previous experiences in scientific programming in geochemical topics with Phreeqc, PhreeqRM and IPhreeqc (https://www.usgs.gov/software/phreeqc-version-3).
RESEARCH PROGRAM NO. 5

The assessment criteria for the qualifications and the interview will be affixed on 27.02.2020 at 12.00 in Dipartimento di Scienze della Terra, Dell' Ambiente e della Vita (DISTAV), piano terra, bacheca, Corso Europa 26, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.02.2020 at 10.00 in Dipartimento di Scienze della Terra, Dell' Ambiente e della Vita (DISTAV), piano terra, bacheca, Corso Europa 26, Genova.

The interview will be held on 28.02.2020 at 14.00 in Dipartimento di Scienze della Terra, Dell' Ambiente e della Vita (DISTAV), Studio della Prof.ssa Gaggero, I piano, Corso Europa 26, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof.ssa Laura Gaggero on the phone number +39 010 3358317 or via the email address: laura.gaggero@unige.it

Scientific coordinator: Prof.ssa Laura GAGGERO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19,367,00

Title: Implementation of qualitative and quantitative asbestos monitoring in rocks from tunneling excavations by MOCF /XRPD and Scanning Electron Microscopy + EDS.

Description: The activity of the research grant is developed within a wider investigation on microstructural, physical, chemical analyses on inorganic fibrous materials from natural sources. The activity is particularly addressed to the qualitative and quantitative analysis of asbestos in rocks from tunneling excavations by MOCF /XRPD and Scanning Electron Microscopy + EDS. The analytical activity is to be carried out by the techniques defined by the normative, providing the results in due time within overall tunneling activity.

Scientific disciplinary sector: GEO/09 GEORISORSE MINERARIE E APPLICAZIONI MINERALOGICO-PETROGRAFICHE PER L'AMBIENTE E I BENI CULTURALI

Place: Dipartimento di Scienze della Terra, Dell' Ambiente e della Vita (DISTAV)

Required degree:

Subjects of the interview:
Asbestos mineralogy, morphological and in situ compositional analytical methods.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 6

The assessment criteria for the qualifications and the interview will be affixed on 03.03.2020 at 9.30 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) Clinica Neurologica, Largo Daneo 3, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 03.03.2020 at 13.30 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) Clinica Neurologica, Largo Daneo 3, Genova.

The interview will be held on 03.03.2020 at 16.30 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Clinica Neurologica, Largo Daneo 3, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Alice LARONI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 27.133,00

Title: RNAseq analysis in stromal and hematopoietic bone marrow cells in an experimental model of multiple sclerosis.

Description: The candidate will perform the computer analysis of gene expression data (RNAseq), assessing the molecular changes caused by the induction of experimental autoimmune encephalitis (EAS) in hematopoietic and mesenchymal stem cells of the bone marrow.

Scientific disciplinary sector: BIO/11 BIOLOGIA MOLECOLARE

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI)


Subjects of the interview:
Tools for the analysis of data related to the PRIN project: Integrating metabolism and immunity: cellular and molecular pathways leading to metabolic dysregulation and autoimmunity.

The candidate will need to prove his/her knowledge of the English language.
RESEARCH PROGRAM NO. 7

The assessment criteria for the qualifications and the interview will be affixed on 26.02.2020 at 9.30 in Dipartimento di Medicina Sperimentale (DIMES), Laboratorio di Oncologia Cellulare – Centro di Biotecnologie Avanzate (CBA) – Torre C 3° piano Largo Rosanna Benzi 10, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.02.2020 at 12.30 in Dipartimento di Medicina Sperimentale (DIMES), Laboratorio di Oncologia Cellulare – Centro di Biotecnologie Avanzate (CBA) – Largo Rosanna Benzi 10, Genova.

The interview will be held on 26.02.2020 at 14.30 in Dipartimento di Medicina Sperimentale (DIMES), Laboratorio di Oncologia Cellulare – Centro di Biotecnologie Avanzate (CBA) – Largo Rosanna Benzi 10, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof.ssa Chiara Gentili on the phone number +39 010 5558241 or via the email address: chiara.gentili@unige.it

Scientific coordinator: Prof.ssa Chiara GENTILI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Cell-free extracellular vesicle based therapy for modulation OA defects.

Description: AutoCRAT proposes to develop innovative cell therapies for the treatment of osteoarthritis (OA), both through the use of mesenchymal stem cells (MSC) derived from donors, and induced pluripotent stem cells (hiPSC) generated by MSC (hiMSC) or joint chondrocytes (hiCHO). Finally, characterize the extracellular vesicles (EVs) isolated from the indicated cells and study their biological effect. The scientific activity that our group aims to carry out is as follows: - Generation of new therapeutic cellular sources, hiPSC generated by MSC (hiMSC) or by joint chondrocytes (hiCHO) - Study of the hiMSC secretoma, both as a factor-rich medium or extracellular vesicles (EVs) - Molecular and biological biochemical characterization of isolated EVs - Development of translational regenerative therapies using small and large animal models.

Scientific disciplinary sector: BIO/13 BIOLOGIA APPLICATA

Place: Dipartimento di Medicina Sperimentale (DIMES)

Required degree: Laurea V.O. in Biotecnologie indirizzo Biotecnologie Mediche o in Scienze Biologiche; Laurea Specialistica delle classi 6/S Biologia, 9/S Biotecnologie mediche, veterinarie e farmaceutiche; Laurea magistrale delle classi LM-6 Biologia, LM-9 Biotecnologie mediche, veterinarie e farmaceutiche.


The candidate will need to prove his/her knowledge of the english language.
The assessment criteria for the qualifications and the interview will be affixed on 02.03.2020 at 11.00 in Dipartimento di Farmacia (DIFAR), Sezione di Farmacologia e Tossicologia - Viale Cembrano 4, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 02.03.2020 at 14.00 in Dipartimento di Farmacia (DIFAR), Sezione di Farmacologia e Tossicologia - Viale Cembrano 4, Genova.

The interview will be held on 02.03.2020 at 15.00 in Dipartimento di Farmacia (DIFAR), Sezione di Farmacologia e Tossicologia - Viale Cembrano 4, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Giambattista BONANNO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19,367,00

Title: Exosome-shuttled miRNAs as mediators of the therapeutic effect of mesenchymal stem cells in ALS.

Description: At present, there is no cure for amyotrophic lateral sclerosis (ALS) In this project we will assess whether mesenchymal stem cells (MSCs) can have a beneficial effect on astrocytes in ALS and if it could be mediated by means of paracrine mechanisms, exerted through the transfer by their released exosomes of specific micro-RNAs (miRNAs). In this project, we shall study whether: i) MSC-derived exosomes are able to modulate the activation and/or the detrimental function of SOD1\textsuperscript{G93A} astrocytes; ii) this modulation is due to the transfer of specific miRNAs that regulate specific pathways; iii) the administration of MSC-derived exosomes in the SOD1\textsuperscript{G93A} mouse model of ALS can recapitulate the effect of the MSC themselves on ongoing disease, thereby obtaining a proof-of-concept validation for the therapeutic effect and mode of action of MSC in these mice.

Scientific disciplinary sector: BIO/14 FARMACOLOGIA

Place: Dipartimento di Farmacia (DIFAR)

Required degree:
Laurea Magistrale della classe LM-13 Farmacia e Farmacia Industriale.

Subjects of the interview:
Techniques for breeding a transgenic mouse colony. Dissection techniques of brain parts of small rodents. Techniques for the purification of subcellular particles of neuronal and glial origin. Techniques for the preparation of primary cultures of neurons and astrocytes. Techniques for the evaluation of ex-vivo neuronal and glial transmission. Techniques for the characterization of mRNA and protein expression in cellular and subcellular preparations. In-vivo treatment with MSC-derived exosomes and behavioral techniques related to disease progression in SOD1\textsuperscript{G93A} mice.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 9

The assessment criteria for the qualifications and the interview will be affixed on 26.02.2020 at 16.00 in Dipartimento di Medicina Sperimentale (DIMES), sezione di Istologia, terzo piano, Via Marsano 10, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.02.2020 at 11.00 in Dipartimento di Medicina Sperimentale (DIMES), sezione di Istologia, terzo piano, Via Marsano 10, Genova.

The interview will be held on 27.02.2020 at 14.30 in Dipartimento di Medicina Sperimentale (DIMES), sezione di Istologia, terzo piano, Via Marsano 10, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Simona SIVORI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19,367,00

Title: Analysis of phenotypic and functional features of human NK cells in the tumor microenvironment.

Description: The project aims to analyze the expression and function of inhibitory checkpoints expressed by human NK cells in order to identify possible new anticancer therapeutic approaches based on enhancing the activity of these cells. During the development of a tumor, NK cells undergo phenotypic and functional alterations which decrease their anti-tumor activity. In the context of the potential exploitation of NK cells in immunotherapy, it is important to know in detail the mechanisms that lead to this hypofunction, in order to intervene to restore their correct functioning.

Scientific disciplinary sector: BIO/17 ISTOLOGIA

Place: Dipartimento di Medicina Sperimentale (DIMES)

Required degree:
Lauree V.O in Scienze Biologiche, in Ingegneria Biomedica, in Biotecnologie mediche, veterinarie e farmaceutiche; Laurea Specialistica delle classi 6/S Biologia, 9/S Biotecnologie mediche, veterinarie e farmaceutiche, 26/S Ingegneria biomedica; Laurea Magistrale delle classi LM-06 Biologia, LM-9 Biotecnologie mediche, veterinarie e farmaceutiche, LM-21 Ingegneria biomedica.

Subjects of the interview:
1) Immunology of tumors; 2) Human Natural Killer cells; 3) Tumor microenvironment. It will be preferable to have gained previous experience in the field of multi-parametric cytoflorimetric analysis, biostatistical analysis and/or microscopy.
RESEARCH PROGRAM NO. 10

The assessment criteria for the qualifications and the interview will be affixed on 27.02.2020 at 9.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI)- Sezione di Scienze Pediatriche, Via G. Gaslini 5, Genova, presso Istituto Gaslini, Padiglione 16, primo piano.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.02.2020 at 12.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI)- Sezione di Scienze Pediatriche, Via G. Gaslini 5, Genova, presso Istituto Gaslini, Padiglione 16, primo piano.

The interview will be held on 27.02.2020 at 12.30 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) - Sezione di Scienze Pediatriche, Via G. Gaslini 5, Genova, presso Istituto Gaslini, Padiglione 16, primo piano.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Federico Zara on the phone number + 39 010-56363816 or via the email address: federicozara@gaslini.org

Scientific coordinator: Prof. Federico ZARA

NO 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Genome-editing regulation of alternative splicing provides new therapeutic opportunities for Episodic ataxia type 2.

Description The general aim of the study is to develop a new gene therapy approach for episodic ataxia type 2, EA2. The specific objective is to upregulate the CaV2.2 isoforms which are more efficient in supporting synaptic transmission, thus compensating for the deficiency of CaV2.1, which characterizes EA2. To this end, we will use genome editing to regulate the alternative splicing of CaV2.2 in mouse models of EA2 and in neurons derived from induced pluripotent stem cells (iPSC) with EA2 mutations. The principle on which the proposed approach is based, the upregulation of CaV2.2, is potentially suitable to counteract the effects of all mutations (> 80) identified in patients with EA2, therefore usable in place of the specific targeting for each mutation.

Scientific disciplinary sector: MED/03 GENETICA MEDICA

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI)

Required degree:
Laurea V.O. in Scienze Biologiche; Laurea Specialistica della classe Biologia 6/S; Laurea Magistrale della classe LM-6 Biologia.

Subjects of the interview:
To describe methods aimed at evaluating gene expression, methods of in vitro cell culture, main techniques used to obtain functional validation of identified mutations.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 11

The assessment criteria for the qualifications and the interview will be affixed on 26.02.2020 at 9.00 in Dipartimento di Medicina interna e Specialità mediche (DIMI), Viale Benedetto XV n°6, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.02.2020 at 12.00 in Dipartimento di Medicina interna e Specialità mediche (DIMI), Viale Benedetto XV n°6, Genova.

The interview will be held on 26.02.2020 at 14.00 in Dipartimento di Medicina interna e Specialità mediche (DIMI), Viale Benedetto XV n°6, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Giuseppe Murdaca on the phone number +39 3358425568 / 0103537924 or via the email address: giuseppe.murdaca@unige.it

Scientific coordinator: Prof. Giuseppe MURDACA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Vaccination coverage in patients with Systemic Lupus Erythematosus and with anti-lipid antibody syndrome.

Description: Patients with autoimmune diseases such as Systemic Lupus Erythematosus with or without anti-lipid antibody syndrome have alterations in the immune response that invalidate the specific response. Therefore patients are at risk of contracting even systemic infections that increase morbidity and mortality. Vaccination coverage against the flu virus and other pathogens (e.g. pneumococcus) is a fundamental weapon for the protection of these people at risk.

Scientific disciplinary sector: MED/09 MEDICINA INTERNA

Place: Dipartimento di Medicina interna e Specialità mediche (DIMI)

Required degree: Laurea Magistrale della classe LM-41 Medicina e Chirurgia.

Subjects of the interview:
Diagnostic criteria of Systemic Lupus Erythematosus and its complications
Diagnostic criteria of antiphospholipid antibody syndrome
Therapy of Systemic Lupus Erythematosus and its complications
Therapy of antiphospholipid antibody syndrome
Rationale for vaccination of Systemic Lupus Erythematosus and anti-lipid antibody syndrome.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 12

The assessment criteria for the qualifications and the interview will be affixed on **26.02.2020** at **12.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) - Clinica Psichiatrica, Largo Rosanna Benzi 1, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **26.02.2020** at **15.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) - Clinica Psichiatrica, Largo Rosanna Benzi 1, Genova.

The interview will be held on **26.02.2020** at **16.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) - Clinica Psichiatrica, Largo Rosanna Benzi 1, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

**Scientific coordinator:** Prof. Mario AMORE

**NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 27.133,00**

**Title:** Multicenter study on factors influencing real-life social functioning of people with a diagnosis of schizophrenia – Focus on social cognitive deficits and psychic pain.

**Description:** The study aims at investigating the impact of several variables on global functioning in patients with schizophrenia, in order to improve therapeutic interventions. To this aim, disease-related variables, personal resources and context-related factors will be investigated. Among the disease-related variables, negative and depressive symptoms, neurocognitive deficits and impairment of social cognition will be assessed. In particular the main hypothesis to be tested is that after symptomatic remission, social cognitive abnormalities may perdure, acting as mediator of an incomplete functional remission. Moreover, psychic pain will be assessed and checked for association with social cognitive deficits and global functioning.

**Scientific disciplinary sector:** MED/25 PSICHIATRIA

**Place:** Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI)

**Required degree:**
Specializzazione in Psichiatria.

**Subjects of the interview:**
Discussion will focus on psychosis spectrum disorders, including their neurobiological hypothesis and therapeutic strategies to date. The association between psychopharmacological strategies and functional outcome in short and long period will be discussed, focusing on the use of long acting molecules in clinical practice. Moreover, knowledge about the association between schizophrenia and social cognitive abnormalities, their psychometric evaluation in a real-life contest and the developing therapy in this field, will be tested. Psychic pain as transdiagnostic dimension will be also discussed as possible mediator of sympathomatologic remission and social function in subjects affected with schizophrenia.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 13

The assessment criteria for the qualifications and the interview will be affixed on 26.02.2020 at 9.00 in Dipartimento di Scienze della Salute (DISSAL), bacheca portineria, Via Pastore 10, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.02.2020 at 10.00 in Dipartimento di Scienze della Salute (DISSAL), bacheca portineria, Via Pastore 10, Genova.

The interview will be held on 02.03.2020 at 14.00 in Dipartimento di Scienze della Salute (DISSAL), sala riunioni, Via Pastore 10, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof.ssa Aurora Parodi on the phone number +39 3472752976 or via the email address: aurora.parodi@unige.it

Scientific coordinator: Prof.ssa Aurora PARODI

NO 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Investigating the role of the NETs (Neutrophils Extracellular Traps) in discoid lupus: are they predictors of the disease severity?

Description Neutrophils are implicated in the innate immunologic response and they are the first defence against different pathogen agents. Once activated they phagocytize patogens and release antimicrobial and proteolitic enzymes, reactive oxygen species and neutrophilic extracellular traps (NETs). The NETs are bands of decondensed chromatin which show on their surface antimicrobial peptides and enzymes. In the last years some studies have shown that a hyperproduction of NETs is very important in the pathogenesis of different inflammatory and autoimmune diseases, among them Lupus Erythematosus. We will study the production of NETs in patients with cutaneous Lupus Erythematosus to demonstrate that a more production of NETs could characterized the forms of cutaneous lupus that could be more severe.

Scientific disciplinary sector: MED/35 MALATTIE CUTANEE E VENEREE

Place: Dipartimento di Scienze della Salute (DISSAL)

Required degree: Specializzazione in Dermatologia e Venereologia.

Subjects of the interview: Lupus erythematosus, clinical aspects, autoantibodies, pathogenesis, therapy.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 14


The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.02.2020 at 12.30 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOOGMI) - Neurologia Pediatrica e Malattie Muscolari, Istituto ‘G. Gaslini’, Università di Genova, Via Gaslini 5, Padiglione 16, I Piano, Genova.

The interview will be held on 26.02.2020 at 13.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOOGMI) - Neurologia Pediatrica e Malattie Muscolari, Istituto ‘G. Gaslini’, Università di Genova, Via Gaslini 5, Padiglione 16, I Piano, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Pasquale Striano on the phone number +39 010 56362758 or via the email address: pstriano@unige.it

Scientific coordinator: Prof. Pasquale STRIANO

NO 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Multi-Omic Analysis of the Microbiome and Metabolome in Children with Epilepsy

Description: The human microbiome has been associated with health status, and risk of disease development. In particular, metabolites produced by commensal organisms, including in response to host diet, may affect host metabolic processes, with potentially pathogenic consequences. We aim to conduct a multi-omic phenotyping of children with epilepsy (N=120), to investigate the interaction between diet, the microbiome, and the metabolome in a cross-sectional sample. We will analyze the nutrient composition of self-reported diet (3-day food records and food frequency questionnaires) and profile the gut and microbiome (16S rRNA) from stool, and applied metabolomic profiling to plasma and stool samples in this cohort to analyze these multi-omic data to investigate the relationship between diet, the microbiome, and the gut and circulating metabolome in epilepsy.

Scientific disciplinary sector: MED/38 PEDIATRIA GENERALE E SPECIALISTICA

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOOGMI)

Required degree:

Subjects of the interview:
Gut microbiota; Inflammation; Immune system; Dietary; Prebiotics; Probiotics; Neurological Disorders, Epilepsy; comorbidities, metabolomics, metagenomics.

The candidate will need to prove his/her knowledge of the english language.
The assessment criteria for the qualifications and the interview will be affixed on 26.02.2020 at 14.00 in Dipartimento di Scienze della Salute (DISSAL), Via Pastore 1, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.02.2020 at 17.00 in Dipartimento di Scienze della Salute (DISSAL), Via Pastore 1, Genova.

The interview will be held on 27.02.2020 at 9.00 in Dipartimento di Scienze della Salute (DISSAL), Via Pastore 1, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof.ssa Maria Luisa Cristina on the phone number +39 0103538479 or via the email address: cristinaml@unige.it

Scientific coordinator: Prof.ssa Maria Luisa CRISTINA

NO 2 research fellowships - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Identification of potential benchmarks for hygienic and healthcare quality of critical hospital environments.

Description: Researchers should carry out measurements of microbiological parameters (sampling and analysis), chemical and physical parameters, in critical hospital environments, in order to identify new benchmarks for the reduction of clinical risk in hospitals. The study will also address the weight of the deviation from compliance with healthcare procedures on the clinical risk.

Scientific disciplinary sector: MED/42 IGIENE GENERALE E APPLICATA

Place: Dipartimento di Scienze della Salute (DISSAL)

Required degree: Laurea magistrale della classe LM-6 Biologia.

Subjects of the interview:
The interview aims to ascertain the skills in the field of microbiological analysis (methods of isolation and identification of microorganisms, molecular biology techniques), chemical and physical analysis in health care environments; knowledge in the field of quality control of hospital environments also from the point of view of physical, structural and ventilation systems; ability to use advanced statistical software.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 16

The assessment criteria for the qualifications and the interview will be affixed on 26.02.2020 at 8.30 in Dipartimento di Scienze della Salute (DISSAL), Via Pastore 1, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.02.2020 at 11.30 in Dipartimento di Scienze della Salute (DISSAL), Via Pastore 1, Genova.

The interview will be held on 26.02.2020 at 14.30 in Dipartimento di Scienze della Salute (DISSAL), Via Pastore 1, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof.ssa Donatella Panatto on the phone number +39 0103538109 or via the email address: panatto@unige.it

Scientific coordinator: Prof.ssa Donatella PANATTO

NO 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Epidemiology and prevention of infectious diseases. Health promotion.

Description: Infectious diseases are a public health problem even in high-income countries. The WHO and national health plans indicate preventive actions as a priority for the control and reduction of cases of infection and disease. Vaccinations are the most effective preventive tool, but it is necessary to adopt the best strategies and reach adequate vaccination coverage to obtain the maximum benefit.

The project is planned into lines of research: 1) support for the design and implementation of integrated infectious diseases surveillance systems; 2) data management and statistical processing; 3) systematic reviews and meta-analysis; 4) drafting of HTA reports; 5) support for health promotion and education programs.

Scientific disciplinary sector: MED/42 IGIENE GENERALE E APPLICATA

Place: Dipartimento di Scienze della Salute (DISSAL)

Required degree: Laurea specialistica della classe 9/S Biotecnologie mediche, veterinarie e farmaceutiche; Laurea magistrale della classe LM-9 Biotecnologie mediche, veterinarie e farmaceutiche.


The candidate will need to prove his/her knowledge of the english language.
The assessment criteria for the qualifications and the interview will be affixed on 04.03.2020 at 9.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 04.03.2020 at 12.30 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The interview will be held on 04.03.2020 at 14.30 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), c/o Ufficio Professor Besio Giovanni, Via Montallegro 1, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Giovanni Besio, via the email address: giovanni.besio@unige.it

Scientific coordinator: Prof. Giovanni BESIO

NO. 1 research fellowship - Duration 2 years – Annual pre-tax amount: € 23,250.00

Title: Coastal circulation observations and simulations for port operations.

Description: DICCA Department is involved in the Interreg Italia-Francia Marittimo project SINAPSI aiming at improve the ocean-meteo awareness system in high maritime traffic harbors. The project will be developed in collaboration with other research institution such as the University of Toulon and LAMMA. The projects will employ numerical models, in-situ observations and remote sensing. The main objectives of the grant are: to analyze HF-radar data of the circulation around the Toulon bay depending on meteocean conditions; detect flow structures relevant for port operations and for environmental matters such as transport of pollutants; to suggest optimal deployment for data capture.

Scientific disciplinary sector: ICAR/02 COSTRUZIONI IDRAULICHE E MARITTIME E IDROLOGIA

Place: Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA)

Required degree:

Subjects of the interview:

The candidate will need to prove his/her knowledge of the english language.
The assessment criteria for the qualifications and the interview will be affixed on 27.02.2020 at 9.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Laboratorio di Idraulica, Via Montallegro 1, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.02.2020 at 12.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Laboratorio di Idraulica, Via Montallegro 1, Genova

The interview will be held on 27.02.2020 at 15.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Laboratorio di Idraulica, Via Montallegro 1, Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Luca G. LANZA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Evaluation of the impact of intense weather events on urban water network infrastructures and facilities and development of sensor systems for monitoring and managing water networks.

Description: The project concerns the analysis, monitoring and mitigation of the meteo-hydrological hazard related to the management of water services, with specific focus on both technological and methodological innovation. The research aims to develop methods for reducing the risk of failure in water supply networks and urban drainage, through the development of smart solutions for risk mitigation, improving the life quality in urban areas by reducing the risk of failure of water supply and drainage systems in urban areas. A further aspect of the research will concern the definition of an "early-warning" sensor network that allows the real-time management of water systems and the development of emergency management plans. The study involves the local company operating in water management (IREN) that will provide support and data for the analysis.

Scientific disciplinary sector: ICAR/02 COSTRUZIONI IDRAULICHE E MARITTIME E IDROLOGIA

Place: Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA)

Required degree: Dottorato di Ricerca in Fluidodinamica e Processi dell’Ingegneria Ambientale.

Subjects of the interview: Candidates must demonstrate knowledge of storm-water management and control techniques in urban areas, for optimizing urban water infrastructures, in the meteo-hydrological hazards management and its impact on water networks. They should know techniques and systems for monitoring hydraulic infrastructures and the hydrological processes related to the impact of extreme events in urban areas, hydraulics of water distribution networks and urban drainage systems, as well as SUDS techniques and the main specific software. Finally, they must demonstrate the capability in analysing and interpreting meteo-hydrological data and their accuracy and reliability.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 19

The assessment criteria for the qualifications and the interview will be affixed on 27.02.2020 at 9.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.02.2020 at 14.15 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova

The interview will be held on 27.02.2020 at 16.30 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Sergio Lagomarsino via the email address: sergio.lagomarsino@unige.it

Scientific coordinator: Prof. Sergio LAGOMARSINO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Seismic assessment of masonry buildings through nonlinear static and dynamic analyses: procedures and applications for the development of fragility curves.

Description: Advanced methods for the seismic assessment of masonry buildings have been validated through the simulation of the behavior of real buildings, damaged by recent earthquakes in Italy, and are now used in the engineering practice. However, several aspects still deserve to be investigated: i) the reliability of pushover analysis for irregular buildings with flexible floors; ii) the effect of the two horizontal seismic components; iii) the influence on the response of the vertical component; iv) the possibility of using linear analysis methods. The research will be methodological and applied to case studies, representative of different building types. Fragility curves will be developed for risk analysis on a national scale, considering the uncertainty and variability of the parameters.

Scientific disciplinary sector: ICAR/09 TECNICA DELLE COSTRUZIONI

Place: Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA)


Subjects of the interview: The interview is aimed to verify the knowledge of the Candidate over the following general themes: seismic response of the existing masonry buildings; modelling approaches for URM buildings; linear and nonlinear seismic assessment procedures; seismic risk analysis. A preferential evaluation element will be the experiences that document past activities and competences already acquired in the framework of equivalent frame modeling, as well as those in the use of nonlinear dynamical analysis, for the derivation of fragility curves through different approaches (Incremental Dynamic Analysis - IDA; Multiple Stripe Analysis - MSA; Cloud analysis). Furthermore, the knowledge of programming languages (in particular MatLab) and open source software for seismic analysis (for example OpenSees) is appreciated. Moreover, the ability to summarize and the effectiveness in illustrating basic concepts will be evaluated.
RESEARCH PROGRAM NO. 20

The assessment criteria for the qualifications and the interview will be affixed on 26.02.2020 at 14.00 in Dipartimento Architettura e Design (DAD), Direzione del Dipartimento Architettura e Design, Stradone S. Agostino 37, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.02.2020 at 17.00 in Dipartimento Architettura e Design (DAD), Direzione del Dipartimento Architettura e Design, Stradone S. Agostino 37, Genova.

The interview will be held on 26.02.2020 at 17.30 in Dipartimento Architettura e Design (DAD), Direzione del Dipartimento Architettura e Design, Stradone S. Agostino 37, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Niccolò CASIDDU

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Design and communication of a smart environmental model for the simulation of home care.

Description: The activity aims to train a new professional figure with multidisciplinary skills (eg. design, data visualization, robotics, IT, exhibit design) for the development and validation of new advanced simulation technologies for the training of operators and end users in an Ambient Assisted Living environment with particular attention to the specifics of the territory.

Scientific disciplinary sector: ICAR/13 DISEGNO INDUSTRIALE

Place: Dipartimento Architettura e Design (DAD)

Required degree: Laurea Magistrale della classe LM-12 Design.

Subjects of the interview: Interaction design, parametric design and data visualization, good design practices for All and Human Centered Design, good practices for the active participation of the user in the design process.

The candidate will need to prove his/her knowledge of the english language.
The assessment criteria for the qualifications and the interview will be affixed on 26.02.2020 at 14.00 in Dipartimento Architettura e Design (DAD), Direzione del Dipartimento Architettura e Design, Stradone S. Agostino 37, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.02.2020 at 17.00 in Dipartimento Architettura e Design (DAD), Direzione del Dipartimento Architettura e Design, Stradone S. Agostino 37, Genova.

The interview will be held on 26.02.2020 at 17.30 in Dipartimento Architettura e Design (DAD), Direzione del Dipartimento Architettura e Design, Stradone S. Agostino 37, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Maria Benedetta SPADOLINI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: How to use Data Visualization and Service design tools for companies.

Description: The research aims to understand how Data Visualization processes and tools can be applied to the Service Design area to obtain more effective approaches and methodologies both in the investigation phase and in the development of the final product. In addition, the research intends to apply a specific focus to corporate Design Thinking processes, through experimentation and continuous comparisons with large companies, with the aim of introducing processes that lead companies to a more specific and real knowledge of what their systems are to put them compared to the external ones.

Scientific disciplinary sector: ICAR/13 DISEGNO INDUSTRIALE

Place: Dipartimento Architettura e Design (DAD)

Required degree: Dottorato di ricerca in Architettura e Design – Curriculum in Design.

Subjects of the interview:
- Data Visualization
- Visual Storytelling
- Service design tools
- Design Thinking

The candidate will need to prove his/her knowledge of the English language.
RESEARCH PROGRAM NO. 22

The assessment criteria for the qualifications and the interview will be affixed on 02.03.2020 at 8.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Montallegro 1, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 02.03.2020 at 11.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Montallegro 1, Genova.

The interview will be held on 03.03.2020 at 9.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Montallegro 1, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Massimo Figari on the phone number +39 3358149240 or via the email address: massimo.figari@unige.it

Scientific coordinator: Prof. Massimo FIGARI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19,367,00

Title: Wear effects on injection systems of marine diesel engines due to sulfur content.

Description: The objective of the research is the evaluation of the effects of sulfur content on the operation of fuel injection pumps in marine diesel engines. 2020 will bring into force the Global Sulfur Cap 2020 which will reduce the maximum sulfur content of marine fuels from 3.5% to 0.5%. Sulfur reduction can lead to an increase in wear and seizure phenomena in pumping elements. The research consists of both theoretical activities and experimental phases on the field. The experiments will concern both the construction of pumping elements with different types of surface coating, and the functioning tests of the pumping elements mounted on engines in operation. The expected results of the research are as follows: 1 - identify a specific coating that allows a longer duration of the pumping elements; 2 - transfer the experience to pumping elements for marine engines.

Scientific disciplinary sector: ING-IND/02 COSTRUZIONI E IMPIANTI NAVALI E MARINI

Place: Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN)


Subjects of the interview:

The candidate will need to prove his/her knowledge of the english language.
The assessment criteria for the qualifications and the interview will be affixed on 21.2.2020 at 8.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sez. TEC, Via All’Opera Pia 15/A, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 21.2.2020 at 11.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sez. TEC, Via All’Opera Pia 15/A, Genova.

The interview will be held on 21.2.2020 at 12.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sez. TEC, Via All’Opera Pia 15/A, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Corrado SCHENONE

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Energy analysis of port facilities using Liquefied Natural Gas (LNG).

Description: The research grant concerns the energy analysis of the LNG (Liquefied Natural Gas) port area facilities, with reference to scenario analysis and integration with other port energy plants. Objectives of the research activity will be: 1) evaluation of the potential consumption of natural gas for ships’ fueling and the relative potentials of energy recovery in the area of incidence of the Maritime program; 2) evaluation of the potential consumption of natural gas for the refueling of land vehicles in the port area and of the relative potentials of energy recovery in the area of incidence of the Maritime program; 3) analysis of the possible integration with port energy networks and in particular with district cooling networks.

Scientific disciplinary sector: ING-IND/11 FISICA TECNICA AMBIENTALE

Place: Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME)

Required degree: Laurea V.O. in Ingegneria Meccanica, in Ingegneria Civile, in Ingegneria per l’ambiente e il territorio; Laurea Specialistica delle classi 28/S Ingegneria civile, 36/S Ingegneria meccanica, 33/S Ingegneria energetica e nucleare, 38/S Ingegneria per l’ambiente e il territorio; Laurea Magistrale delle classi LM-23 Ingegneria civile, LM-33 Ingegneria meccanica, LM-30 Ingegneria energetica e nucleare, LM-35 Ingegneria per l’ambiente e il territorio.

Subjects of the interview: LNG refuelling and regasification plants, modelling of energy systems, integrated energy networks.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 24

The assessment criteria for the qualifications and the interview will be affixed on 28.2.2020 at 9.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Ufficio Prof.ssa Bosio - Via Opera Pia 15, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.2.2020 at 12.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Ufficio Prof.ssa Bosio - Via Opera Pia 15, Genova.

The interview will be held on 28.2.2020 at 13.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Ufficio Prof.ssa Bosio - Via Opera Pia 15, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof.ssa Barbara Bosio on the phone number +39 3408844029 or via the email address: barbara.bosio@unige.it

Scientific coordinator: Prof.ssa Barbara BOSIO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Modelling and experimental data analysis of fuel and electrolyzer cells at high temperature.

Description: The research project is focused on the theoretical analysis of the performance of fuel and electrolyzer cells operating at high temperature and on the related degradation phenomena. The study will be aimed to a modelling activity at different degrees of detail (from electrode to stack scale). The optimisation of the set-up models (0D, 2D and 3D) will be performed on the basis of a proper validation on the experimental data available in the framework of the European project Ad Astra.

Scientific disciplinary sector: ING-IND/24 PRINCIPI DI INGEGNERIA CHIMICA

Place: Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA)

Required degree: Dottorato di Ricerca in Civil, Chemical and Environmental Engineering or Sustainable Energy and Technologies.

Subjects of the interview:
Functioning of fuel and electrolyzer cells operating at high temperature, multiscale modelling, use of the programming language Fortran and the software Aspen Plus, principles of Chemical engineering.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 25

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2020 at 12.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 11A, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.2.2020 at 12.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 11A, Genova.

The interview will be held on 27.2.2020 at 15.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 11A, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Maurizio Valle via the email address: maurizio.valle@unige.it

Scientific coordinator: Prof. Maurizio VALLE

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Design and experimental verification of a modular electronic skin system.

Description: As part of the European Project H2020 Tactility, the research fellow will work on the development, experimental verification and integration of a modular electronic sensing system (e-skin) to be integrated into sensorized gloves for human hands and robotic hand prostheses. The modules of the system are organized into the following functional blocks: 1) matrices of high-density tactile sensors preferably made using piezoelectric polymers; 2) interface electronics; 3) processing of tactile data and transmission of tactile information. The planned activities are: 1. design and testing of tactile sensor arrays; 2. miniaturization and engineering of Interface Electronics; 3. development of algorithms for tactile data decoding based on ML and continuum mechanics.

Scientific disciplinary sector: ING-INF/01 ELETTRONICA

Place: Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN)


Subjects of the interview: Sensory systems, tactile systems, Artificial Intelligence / Machine Learning, embedded electronic systems.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 26

The assessment criteria for the qualifications and the interview will be affixed on 2.3.2020 at 10.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), locali del Laboratorio DSP, Via all’Opera Pia 13, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 2.3.2020 at 14.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), locali del Laboratorio DSP, Via all’Opera Pia 13, Genova.

The interview will be held on 2.3.2020 at 15.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), locali del Laboratorio DSP, Via all’Opera Pia 13, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Igor Bisio on the phone number +39 010 3352803 or via the email address: igor.bisio@unige.it

Scientific coordinator: Prof. Igor BISIO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Study and Analysis of Methods and Systems for the Physical and Logical Tracking of Components and Equipment and for the Detection of Foreign Objects in Industrial Environment.

Description: The activity will concern the study, analysis and development of context awareness solutions with particular emphasis to the study and analysis of methods and systems for the physical and logical tracking of components and equipment and for the detection of foreign objects in the environment industrial. The research will be conducted directly in the industrial environments of interest and will be carried out within a group and interacting with figures, at different levels, within this reference context for the research activity.

Scientific disciplinary sector: ING-INF/03 TELECOMUNICAZIONI

Place: Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN)

Required degree:

Subjects of the interview:

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 27

The assessment criteria for the qualifications and the interview will be affixed on 26.2.2020 at 10.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 13, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 26.2.2020 at 13.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 13, Genova.

The interview will be held on 26.2.2020 at 15.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 13, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Enrico Simetti on the phone number +39 010 3352206 or via the email address: enrico.simetti@unige.it

Scientific coordinator: Prof. Enrico SIMETTI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19,367.00

Title: Distributed Autonomous Mobile Passive Sonar system.

Description: The DAMPS project aims at creating a passive distributed adaptive sonar system composed by a team of autonomous underwater vehicles with passive directive sensors. The objective of the assegno will be the development and simulation of control and mission management methodologies for the team of autonomous underwater vehicles.

Scientific disciplinary sector: ING-INF/04 AUTOMATICA

Place: Centro Interuniversitario di Ricerca di Sistemi integrati per l'Ambiente marino (ISME)


Subjects of the interview: Hydrodynamic models of underwater vehicles; task priority based control; cooperative control; underwater navigation techniques; dynamic control of vehicles

The candidate will need to prove his/her knowledge of the english language.
The assessment criteria for the qualifications and the interview will be affixed on 27.02.2020 at 9.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 13, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.02.2020 at 13.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 13, Genova.

The interview will be held on 27.02.2020 at 14.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), presso il laboratorio IPI - Via Opera Pia 11 A, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Pierpaolo BAGLIETTO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 31.015.00

Title: Design and development of computer platforms for data and service distribution and mashup based on Distributed Ledger Technologies.

Description: The research will be organized in the following activities:

1. Study of the state of the art and in the field of Computer Platforms for the deployment and management of data composition, data distribution, service and data mashup based on Distributed Ledger Technologies.
2. Analysis and specification of case studies related to the logistic application domain with specific reference to the maintenance processes and container transportation processes.
3. Execution of tests and trials of the Computer Platform in order to validate it both at the functional and performance levels.

Scientific disciplinary sector: ING-INF/05 SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI

Place: Centro interuniversitario di ricerca sull'Ingegneria delle Piattaforme informatiche (CIPI)

Required degree: Laurea Magistrale della classe LM-32 in Ingegneria Informatica.

Subjects of the interview:
Software development with Java JEE and JSLEE. Design and development of distributed software applications based on Distributed Ledger technologies. Methodologies and standard for application level system integration. Protocols, platforms and open standards in the field of Internet of Things and Service Composition. Platforms for virtualization and issues related to scalability.

The candidate will need to prove his/her knowledge of the english language.
The assessment criteria for the qualifications and the interview will be affixed on 28.02.2020 at 9.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 11, 2° Piano, SmartyLab, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.02.2020 at 12.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 11, 2° Piano, SmartyLab, Genova.

The interview will be held on 28.02.2020 at 14.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 11, 2° Piano, SmartyLab, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Luca ONETO

NO. 2 research fellowships - Duration 1 year – Annual pre-tax amount: € 23,250.00

Title: Study and application of methods for knowledge extraction techniques from railway data.

Description: The objective of the research is the study and application of methods for knowledge extraction techniques, based on machine learning, from railway data. In particular, the objective will be to define application scenarios and approaches for data collection, storage, and analysis. Starting from the identified scenarios, the research will address the development of methods to assess knowledge extraction techniques, with particular reference to descriptive, diagnostic and predictive models.

Scientific disciplinary sector: ING-INF/05 SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI

Place: Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS)

Required degree: Laurea Magistrale dalla classe LM-32 Ingegneria informatica.

Subjects of the interview: Machine Learning, Data Mining, Railway Information Systems.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 30

The assessment criteria for the qualifications and the interview will be affixed on 28.02.2020 at 8.30 in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Via Balbi 2, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.02.2020 at 11.30 in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Via Balbi 2 (Albo del DAFIST 1° piano), Genova.

The interview will be held on 28.02.2020 at 11.45 in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Via Balbi 2, 3° piano, ufficio Prof.ssa Antonella Primi, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof.ssa Antonella Primi via the email address: primi@unige.it

Scientific coordinator: Prof.ssa Antonella PRIMI

NO. 1 research fellowships - Duration 2 years – Annual pre-tax amount: € 23,250.00

Title: Mapping of the potentialities and criticalities for the sustainable valorization of the territorial patrimony in valleys of Alessandria province.

Description: The project has two main objectives, one methodological and the other application-oriented. The first objective is to develop a method for creating a database - also applicable in other national or international contexts - with the aim of enhancing and preserving knowledge and skills, accumulated in centuries of history in rural areas. The second objective is to develop and apply this model of investigation to a case study emblematic of marginal mountain territory in order to build a proposal for its valorization. The research assistant, supported by the research team, stakeholders and partners, will carry out, in addition to research activities, also coordination activities and organization of the project itself.

Scientific disciplinary sector: M-GGR/01 GEOGRAFIA

Place: Dipartimento di Antichità, Filosofia e Storia (DAFIST)

Required degree: Dottorato in Storia – Indirizzo Geografia storica per la Valorizzazione del Patrimonio Storico-Ambientale.

Subjects of the interview:
Sustainable development in rural areas; The SNAI Inner Areas; Demographic studies of the population; Geographical Information Systems; Participative methods.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 31

The assessment criteria for the qualifications and the interview will be affixed on 28.02.2020 at 10.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Andrea Podestà 2, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.02.2020 at 15.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Andrea Podestà 2, Genova.

The interview will be held on 06.03.2020 at 9.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Andrea Podestà 2, Stanza 4A10, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Maria Carmen USAI

NO. 1 research fellowships - Duration 1 year – Annual pre-tax amount: € 19.367.00

Title: The development of inhibitory control: effects of gaze cueing.

Description: The study aims to investigate the mechanisms by which adults can support the development of inhibitory control. In particular, the role of gaze cueing is investigated. A structured observation of behavioral self-regulation in children between 4 and 5 years of age will be realized with a task which investigates the inhibition of pre-potent or automatic responses, associated with a gaze cueing paradigm. The social information coming from the conductor gaze orientation is hypothesized to influence children's performance and that, if this information is in conflict with the expected response, a decrease in the inhibitory control abilities will occur.

Scientific disciplinary sector: M-PSI/04 PSICOLOGIA DELLO SVILUPPO E PSICOLOGIA DELL'EDUCAZIONE

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree: Dottorato di ricerca in Discipline Psicologiche.

Subjects of the interview:
- Development of attention and control processes
- Methods to assess attention executive function in children
- Methods and techniques for the standardization of psychological tests
RESEARCH PROGRAM NO. 32

The assessment criteria for the qualifications and the interview will be affixed on 02.03.2020 at 9.00 in Dipartimento di Giurisprudenza, Sezione di Diritto Tributario - Via Balbi 30, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 02.03.2020 at 13.00 in Dipartimento di Giurisprudenza, Sezione di Diritto Tributario – Via Balbi 30, Genova.

The interview will be held on 03.03.2020 at 10.30 in Dipartimento di Giurisprudenza, Sezione di Diritto Tributario – Via Balbi 30, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Alberto MARCHESELLI

NO. 1 research fellowships - Duration 1 year – Annual pre-tax amount: € 19,367.00

Title: Taxation on “tech giants” (international and national issues about “we taxa”),

Description: The objective of the research project is to investigate the tax issues presented by the bigtech (Google, Amazon, Facebook ...) in the light of national and supranational legislation. On this topic, an important warning was issued by the OECD with a series of proposals diversifying between subjects who still have a seat in the State and those who, on the other hand, do not have any physical presence. On this point we highlight both the recent French legislative initiative (law NO. 2019-759 on the GAFA tax that will enter into force on 1 January 2020), and the proposal emerged in the Italian government (see the Council of Ministers of 16 October 2019) of a rate of 3% on the Italian revenues. Hence the need for a conceptual framework of the problems and a study of the possible solutions.

Scientific disciplinary sector: IUS/12 DIRITTO TRIBUTARIO

Place: Dipartimento di Giurisprudenza

Required degree: Dottorato di ricerca in Diritto Pubblico dell’Economia.

Subjects of the interview:

The candidate will need to prove his/her knowledge of the English language.
The assessment criteria for the qualifications and the interview will be affixed on 25.02.2020 at 12.00 in Centro Italiano di Eccellenza sulla Logistica Integrata (CIELI), Via Vivaldi 5, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 25.02.2020 at 17.00 in Centro Italiano di Eccellenza sulla Logistica Integrata (CIELI), Via Vivaldi 5, Genova.

The interview will be held on 26.02.2020 at 11.00 in Centro Italiano di Eccellenza sulla Logistica Integrata (CIELI), Via Vivaldi 5, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Centro Italiano di Eccellenza sulla Logistica Integrata (CIELI) via the email address: cieli@unige.it

Scientific coordinator: Prof.ssa Anna BOTTASSO

NO. 1 research fellowships - Duration 2 years – Annual pre-tax amount: € 19,367.00

Title: Analysis of the centrality of the infrastructure network in the North-West and possible forms of regulation for emergencies.

Description: The research activity will consist in the description and analysis, through the construction of appropriate indices, of the road and railway infrastructure network of the North-West in order to highlight the most critical elements that can determine a sharp reduction in service levels of the network in case of their partial or total inoperability. This analysis should then lead to possible proposals for economic regulation to be prepared in emergency situations, i.e. where part of the network is inoperable for a prolonged period and this leads to important systemic effects.

Scientific disciplinary sector: SECS-P/02 POLITICA ECONOMICA

Place: Centro Italiano di Eccellenza sulla Logistica Integrata (CIELI)


Subjects of the interview:
Economic Regulation; Transport Economics; Economics of Infrastructure.

The candidate will need to prove his/her knowledge of the english language.
The assessment criteria for the qualifications and the interview will be affixed on 25.02.2020 at 12.00 in Dipartimento di Economia, Via Vivaldi 5, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 25.02.2020 at 17.00 in Dipartimento di Economia, Via Vivaldi 5, Genova.

The interview will be held on 26.02.2020 at 12.00 in Dipartimento di Economia, Via Vivaldi 5, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Maurizio Conti via the email address: mconti@economia.unige.it

Scientific coordinator: Prof. Maurizio CONTI

NO. 1 research fellowships - Duration 1 year – Annual pre-tax amount: € 19.367.00

Title: Analysis of the economic impact of transport infrastructure, in particular motorways and railways.

Description: The aim is to study the effects of road and rail infrastructure on innovation and/or business productivity. The analysis will be empirical and based on counterfactual methods. As far as the level of data aggregation is concerned, the study will alternatively consider data at provincial level and/or at a finer disaggregation level, including at enterprise level. The identification of the effect of infrastructure will be done through the use of econometric methods based on instrumental variables or, in the case of the use of data at a strongly disaggregated level, through a "difference in difference" approach or even the so-called "incidental treatment approach".

Scientific disciplinary sector: SECS-P/02 POLITICA ECONOMICA

Place: Dipartimento di Economia


Subjects of the interview:
Regional economy, counterfactual policy impact evaluation techniques.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 35

The assessment criteria for the qualifications and the interview will be affixed on 02.03.2020 at 8.00 in Centro Italiano di Eccellenza sulla Logistica Integrata (CIELI), Via Vivaldi 5, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 02.03.2020 at 11.00 in Centro Italiano di Eccellenza sulla Logistica Integrata (CIELI), Via Vivaldi 5, Genova.

The interview will be held on 02.03.2020 at 14.30 in Centro Italiano di Eccellenza sulla Logistica Integrata (CIELI), Via Vivaldi 5, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Hilda GHIARA

NO. 1 research fellowships - Duration 1 year – Annual pre-tax amount: € 19.367.00

Title: Assessment of the impact of innovative solutions on the Rhine-Alpine corridor.

Description: The research activity will focus on the collection of data to quantify - through the introduction of specific KPIs – the social, economic and financial costs and benefits as well as the impact of technologies on users’ attitude. The advantage of such approach is a better identification of the investment impacts as well as the possibility to build-up a policy framework that better promote effective technological interventions. Thus, the research will focus on the assessment of financial, operational, economic, and social net benefits of the different technology interventions on the corridors’ stakeholders. The proposed activity will therefore support the elaboration of an evaluation framework capable of assessing the effects of differentiated technologies on local stakeholders and in terms of smooth flow distribution.

Scientific disciplinary sector: SECS-P/06 ECONOMIA APPLICATA

Place: Centro Italiano di Eccellenza sulla Logistica Integrata (CIELI)


Subjects of the interview:
European Union policies and programs, KPIs for ports and infrastructures performance and investment, Assessment techniques of infrastructures investments.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 36

The assessment criteria for the qualifications and the interview will be affixed on **26.02.2020 at 14.00** in Dipartimento di Scienze Politiche (DISPO), Sala C, 5° piano Torre Ovest, P.le E. Brignole 3° canc, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **26.02.2020 at 17.00** in Dipartimento di Scienze Politiche (DISPO), Sala C, 5° piano Torre Ovest, P.le E. Brignole 3° canc, Genova.

The interview will be held on **27.02.2020 at 12.00** in Dipartimento di Scienze Politiche (DISPO), Sala C, 5° piano Torre Ovest, P.le E. Brignole 3° canc, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Enrico Di Bella on the phone number +39 010 20951176 or via the email address: enrico.dibella@unige.it

Scientific coordinator: Prof. Enrico DI BELLA

NO. 1 research fellowships - Duration 1 year – Annual pre-tax amount: € 19.367.00

**Title:** The effects of socio-demographic change on the labour market in the Liguria Region.

**Description:** This project aims to assess the effects on the labour market of the socio-demographic change that is taking place in Liguria through: a review of the existing literature on the subject, a survey of the data available at regional level that can be used for a statistical assessment of these effects and the preparation of a final research report. The activities will be carried out in a context of strong collaboration with the Liguria Region, which is funding the research grant, also for the monitoring and timely interpretation of the statistics disseminated regularly by official statistical sources on the Region.

**Scientific disciplinary sector:** SECS-S/05 STATISTICA SOCIALE

**Place:** Dipartimento di Scienze Politiche (DISPO)


**Subjects of the interview:**
Fundamentals of analysis of the labour market in relation to the socio-demographic change of the territories; Fundamentals of social statistics and demography; Discussion on the curriculum of the candidate.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 37

The assessment criteria for the qualifications and the interview will be affixed on 02.03.2020 at 15.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2 – 3° piano, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 02.03.2020 at 18.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2 – 3° piano, Genova.

The interview will be held on 03.03.2020 at 13.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2 – 3° piano, stanza 3A6, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Mauro Palumbo via the email address: palumbo@unige.it

Scientific coordinator: Prof. Mauro PALUMBO

NO. 1 research fellowships - Duration 1 year – Annual pre-tax amount: € 19.367.00

Title: Evaluate the effectiveness of school work alternance paths on school work transition student's orientation and the system governance.

Description: The School Work Alternance has represented both an innovative teaching method and a way to bring together worlds that have been separated for too long. The research to be carried out will be aimed at building and contributing to the administration of quantitative and qualitative research tools, including in-depth interviews, as well as to the analysis of quantitative and qualitative databases that will become available during the research. The research also includes a background analysis on school and the labor market and the analysis of the roles of the various stakeholders that come into play in the School Work Alternance system and in the related governance mechanisms established at the territorial level, with particular attention to the coordination mechanisms.

Scientific disciplinary sector: SPS/07 SOCIOLOGIA GENERALE

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree: Dottorato di ricerca in Scienze Sociali, Sociologia o Valutazione dei processi e dei sistemi educativi, Scienze Politico sociali e Psicologiche.

Subjects of the interview:
Theoretical references on the analysis of the youth condition, ascertainable knowledge and competences in the subject of methodology of the social research, knowledge of the literature in the youth condition and of school-work transition.

The candidate will need to prove his/her knowledge of the english language.