

SCIENTIFIC DISCIPLINARY AREA: PHYSICS

RESEARCH PROGRAM NO. 1

The assessment criteria for the qualifications and the interview will be affixed on 3.3.2017 at 9.00 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 3.3.2017 at 12.30 in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on 3.3.2017 at 14.30 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. Luca Repetto on the phone number +39 010 353 6238 or via the email address: luca.repetto@unige.it.

Scientific coordinator: Prof. Luca REPETTO

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

Title: Integration of functional nanostructures in fluidic devices.

Description: The integration of functional nanostructures into fluidic devices offers the possibility to obtain high sensitivity and specificity that can face the ultimate challenges encountered in bio-sensing applications. The aim of this project is to develop and study nanostructures that can alter their fluidic and optical behavior in response to the sample characteristics.

Ion and laser irradiation techniques will be used for the nano-fabrication task; the morphology will be investigated by AFM and SEM and will be correlated to the electro-optical response of the devices. Possible chemical functionalization with CVD techniques may improve the performance of the devices improving both sensitivity and specificity.

Scientific disciplinary sector: FIS/01 EXPERIMENTAL PHYSICS

Place: Dipartimento di Fisica (DIFI)

Required degree:

Dottorato di ricerca in Fisica, Scienza dei materiali o Scienza e Tecnologia dei Materiali

Subjects of the interview:

Methods and techniques for the nano-structuring of surfaces and materials, techniques for high-sensitivity electrical measurements, microscopy (optical, electronic, atomic force).

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 1.3.2017 at 9.00 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 1.3.2017 at 12.30 in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on 1.3.2017 at 14.30 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. Luca Repetto on the phone number +39 010 353 6238 or via the email address: luca.repetto@unige.it.

Scientific coordinator: Prof. Luca REPETTO

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 34.898,00

Title: Micro- e nano-patterning of surfaces and materials through ion irradiation and chemical treatments.

Description: Micro- and nano-structured materials may have characteristics different from the bulk counterpart, and the possibility to control them is fundamental for their applications: in particular, ion irradiation is at the bottom of several techniques for the modification of surfaces and materials.

This research project will be focused in the investigation of self-organization mechanisms of metal films subject to ion bombardment for the control of the morphology; the obtained metal nanostructures can be also used as masks for the synthesis of micro- and nano-porous silicon through chemical etching. The interaction between nanostructured materials and molecules (both organic and inorganic) will be investigated through optical spectroscopy for possible bio-sensing applications.

Scientific disciplinary sector: FIS/01 EXPERIMENTAL PHYSICS

Place: Dipartimento di Fisica (DIFI)

Required degree:

Dottorato di ricerca in Fisica, Scienza dei materiali o Scienza e Tecnologia dei Materiali

Subjects of the interview:

Methods and techniques for the micro- and nano-structuring of surfaces and materials, optical spectroscopy techniques (Raman, absorption/transmission), microscopy (optical, electronic, atomic force).

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 1.3.2017 at 15.00 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 1.3.2017 at 18.00 in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on 2.3.2017 at 11.00 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 +39 010 353 6683 or via the email address: tosi@ge.infn.it

Scientific coordinator: Prof. Silvano TOSI

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

Title: Commissioning of the new pixel detector of the CT-PPS project and measurements of diffractive and top quark physics for the CMS experiment at the LHC.

Description: The Genoa group of CMS participates both in activities related to the construction of the experimental apparatus and the analysis of the data collected to obtain measurements of elementary particle physics. The experimental part consists of the construction, installation and commissioning of a silicon pixel detector for the new CT-PPS project, a joint project of the TOTEM and CMS collaborations. It is a spectrometer for the measurement of protons, positioned 200 meters from the main detector of CMS, along the beam line. The Genoese group, as well as on purely diffractive physics, is also active since many years on top-quark physics. The winner of this procedure will work on both the experimental and the data-analysis part.

Scientific disciplinary sector: FIS/01 EXPERIMENTAL PHYSICS

Place: Dipartimento di Fisica (DIFI)

Required degree:

Laurea Specialistica della classe 20/S Fisica
Laurea Magistrale della classe LM-17 Fisica

Subjects of the interview:

Verification of the knowledge of the problem of measuring the performance of silicon detectors and the processing and analysis of experimental data, as well as of current research topics of the experiments with particle accelerators in the fields of diffractive and top-quark physics.

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 28.2.2017 at 14.00 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 28.2.2017 at 18.00 in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on 2.3.2017 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. Daniele Marré on the phone number +39 010 353 6446 or via the email address: marre@fisica.unige.it.

Scientific coordinator: Prof. Daniele MARRÉ

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

Title: Highly sensitive magnetic field microelectromechanical sensors for applications in biomagnetism

Description: The goal of this fellowship is the development of an innovative sensor with sensitivity of about 1-10 fT/ $\sqrt{\text{Hz}}$, bandwidth larger than 1kHz and able to work at (or above) 77K. This device could be in perspective applied to MEG (Magnetoencephalography) and/or LF-MRI and ULF-MRI (Low field e ultra low field magnetic resonance imaging).

During the fellowship, the candidate will realize such a device based on transition metal oxides epitaxially grown by pulsed laser deposition. Furthermore, he/she will realize and characterize transition metal oxide based microelectromechanical devices with resonance frequencies in the range 10kHz – 1MHz.

Scientific disciplinary sector: FIS/03 PHYSICS OF MATTER

Place: Dipartimento di Fisica (DIFI)

Required degree:

Laurea Specialistica della classe 20/S Fisica

Laurea Magistrale della classe LM-17 Fisica

Subjects of the interview:

Qualifications and experiences, micro and nanofabrication processes of transition metal oxide based devices, transition metal oxide film growth by physical methods, microelectromechanical system modelling by finite element analysis.

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

RESEARCH PROGRAM NO. 5

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2017 at 11.00 in Dipartimento di Chimica e Chimica Industriale (DCCI), Via Dodecaneso 31, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2017 at 15.00 in Dipartimento di Chimica e Chimica Industriale (DCCI), Via Dodecaneso 31, Genova.

The interview will be held on 2.3.2017 at 15.00 in Dipartimento di Chimica e Chimica Industriale (DCCI), Via Dodecaneso 31, 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 Ferretti on the phone number +39 347 480 6610 or via the email address: ferretti@chimica.unige.it.

Scientific coordinator: Prof. Maurizio FERRETTI

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

Title: Study of degradation mechanisms in organic/inorganic structures by thermal and evolved gas analysis of functionalized nanoparticles.

Description: The project aims to study the degradation mechanisms of organic/inorganic structures in luminescent materials for solar concentrators and nanoparticles (NP) functionalized for environmental applications and drug delivery. In particular inorganic and hybrid luminescent perovskites, Au-NP functionalized with long-chain binders (for example, 1-dodecanthiol) and NP (Fe₃O₄-NPs) coated with organic compounds (MPTMS, APTES, PMA and PAA) will be studied. Similar studies will also be carried out on-Fe₃O₄ NPs functionalized with more complex fluorophore molecules. Analyses will be conducted by an instrumentation that allows the thermal analysis and the determination of the molecules released from the sample.

Scientific disciplinary sector: CHIM/02 PHYSICAL CHEMISTRY

Place: Dipartimento di Chimica e Chimica Industriale (DCCI)

Required degree:

Dottorato di ricerca in Scienze e Tecnologie Chimiche

Subjects of the interview:

- Methods of thermal analysis and analysis of evolved gases
- Mechanisms of degradation of organic / inorganic structures
- Nanoparticles functionalized for environmental applications and drug delivery

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 28.2.2017 at 09.30 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 28.2.2017 at 13.00 in Dipartimento di Scienze della Terra dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova.

The interview will be held on 28.2.2017 at 15.00 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. Marco FIRPO

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

Title: Geopedological map of Vernazza catchment (Cinque Terre National Park)

Description: The Project proposes to create a soil map of Vernazza catchment in the area of Cinque Terre National Park. Study and characterization of soils properties allow to realize derived maps for managerial use, such as attitude soil map for viticulture and olive groove, but Also maps of soil erodibility , soil organic carbon etc. The aim of the project is to provide a management tool for environmental planning of the National Park.

Scientific disciplinary sector: GEO/04 PHYSICAL GEOGRAPHY AND GEOMORPHOLOGY

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

Required degree:

Dottorato di Ricerca in Scienze della Terra

Subjects of the interview:

The study of soils and its properties, the survey of soils, soil maps, processing and computerization of data via G.I.S.

RESEARCH PROGRAM NO. 7

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2017 at 08.00 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 1.3.2017 at 13.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The interview will be held on 1.3.2017 at 15.00 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.

Scientific coordinator: Prof. Massimiliano BURLANDO

NO.1 research fellowship - Duration: 1 year – Annual pre-tax amount: € 23.250.00

Title: The wind forecast in urban and port areas

Description: The medium-term (+72 h) wind forecast, carried out in the context of the projects "Wind and Ports" and "Wind, Ports and Sea", is based on the use of prognostic numerical models, initialized by means of the analyses of the Global Forecast System. The wind monitoring network of the ports of the Northern Tyrrhenian Sea is an important opportunity to improve these predictions using measurements recorded at the local scale. In the context of the Project "Wind monitoring, simulation and forecast for the smart management and safety of port, urban and territorial systems" financed by Compagnia di San Paolo, it is required a study aimed at creating a data assimilation system coupled to the WRF meteorological model for the wind forecast over urban and port areas of the Livorno City.

Scientific disciplinary sector: GEO/12 OCEANOGRAPHY AND PHYSICS OF THE ATMOSPHERE

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

Required degree:

Laurea V.O. in Fisica o Scienze Ambientali

Laurea Specialistica delle classi 20/S Fisica, 50/S Modellistica matematico-fisica per l'ingegneria, 66/S Scienze dell'universo o 82/S Scienze e tecnologie per l'ambiente e il territorio

Laurea Magistrale delle classe LM-17 Fisica, LM-44 Modellistica matematico-fisica per l'ingegneria, LM-58 Scienze dell'universo o LM-75 Scienze e tecnologie per l'ambiente e il territorio

Subjects of the interview:

Meteorological and mass-conservation models. Analysis and management of large anemometric databases and post-processing of LiDAR measurements. Fundamentals of atmospheric physics and wind engineering.

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

RESEARCH PROGRAM NO. 8

The assessment criteria for the qualifications and the interview will be affixed on 2.3.2017 at 09.00 in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Sala di Lettura V, Piano Palazzo delle Scienze, 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 2.3.2017 at 12.30 in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Sala di Lettura V, Piano Palazzo delle Scienze, Corso Europa 26, Genova.

The interview will be held on 2.3.2017 at 14.30 in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Sala di Lettura V Piano. Palazzo delle Scienze, 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.ssa Laura CANESI

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

Title: Role of autophagic processes in the immune response of the marine bivalve *Mytilus*

Description: The project is aimed at understanding the basic mechanisms of autophagy in the immune cells of the marine bivalve *Mytilus galloprovincialis* and the possible modulation of autophagic processes by bacterial infection. Experiments will be carried out in vitro on isolated hemocytes, utilizing specific pharmacological inducers/inhibitors and markers of autophagic processes, according to the most recent guidelines to evaluate autophagy in eukaryotic cells. The possible induction of autophagy by bacteria of the *Vibrio* genus will be investigated in infection experiments with different vibrio species and strains potentially pathogenic for aquacultured bivalve species.

Scientific disciplinary sector: BIO/09 PHYSIOLOGY

Place: Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV)

Required degree:

Dottorato di ricerca in Scienze Ambientali (Scienza del Mare)

Subjects of the interview:

The immune system of bivalve molluscs, evaluation of functional and molecular responses in mussel hemocytes, responses of marine bivalves to bacterial infection, in particular to vibrio pathogens of aquacultured bivalves, basis of autophagy in invertebrates.

RESEARCH PROGRAM NO. 9

The assessment criteria for the qualifications and the interview will be affixed on 28.2.2017 at 10.00 in Dipartimento di Scienze della Salute (DISSAL), sezione di Biostatistica, Via A. 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 28.2.2017 at 14.00 in Dipartimento di Scienze della Salute (DISSAL), sezione di Biostatistica, Via A. Pastore 1, Genova

The interview will be held on 28.2.2017 at 15.00 in Dipartimento di Scienze della Salute (DISSAL), sezione di Biostatistica, Via A. 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.

Scientific coordinator: Prof.ssa Francesca LANTIERI

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

Title: Search of genetic variants involved in susceptibility to enterocolitis in patients suffering from Hirschsprung disease.

Description: Hirschsprung's disease (HSCR) is a congenital malformation of the intestine that leads to constipation. The most serious and common complication is enterocolitis. This susceptibility has led us to search for genetic risk factors through sequencing of the exomes of 12 patients HSCR with enterocolitis associated and 12 without. These results need to be analyzed. The most promising variants as candidates for enterocolitis must be confirmed by conventional methods, analyzed also in the parents and possibly evaluated in a larger panel of patients. The most convincing biological candidates will also meet functional testing in silico and in vitro.

Scientific disciplinary sector: MED/01 MEDICAL STATISTICS

Place: Dipartimento di Scienze della salute (DISSAL)

Required degree:

Laurea Specialistica della classe 6/S Biologia

Laurea Magistrale della classe LM-6 Biologia

Subjects of the interview:

"Screening" of genetic variants, genetic association and functional tests of variants.

RESEARCH PROGRAM NO. 10

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2017 at 9.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOEMI) - 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 1.3.2017 at 12.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOEMI) - Clinica Neurologica, Largo Daneo 3, Genova.

The interview will be held on 1.3.2017 at 13.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOEMI) - 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. Giovanni Luigi MANCARDI

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

Title: Drug surveillance of medications for multiple sclerosis.

Description: This is an AIFA (Agenzia Italiana del Farmaco) project involving 4 Italian regions, Sicily, Campania, Sardinia and Liguria. The target is the drug surveillance of the medications for multiple sclerosis, reporting the adverse reactions of first and second line therapies, the differences between the various routes of administration and the actions undertaken in order to face the adverse reactions. Demographic and clinical data of the involved patients as well as all the information on the adverse reactions will be collected.

Scientific disciplinary sector: MED/26 NEUROLOGY

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

Required degree:

Specializzazione in Neurologia with adequate scientific production resulting from scientific articles in journals with impact factor and presentations at scientific congresses.

Subjects of the interview:

Efficacy and safety of treatments for multiple sclerosis.

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 **1.3.2017** at **9.30** in Campus Universitario di Savona, uffici CENS, palazzina Lagorio, Via Magliotto 2, Savona.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **1.3.2017** at **12.45** in Campus Universitario di Savona, uffici CENS, palazzina Lagorio, Via Magliotto 2, Savona.

The interview will be held on **1.3.2017** at **14.00** in Campus Universitario di Savona, uffici CENS, palazzina Lagorio, Via Magliotto 2, Savona.

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. Marco TESTA

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

Title: Development and validation of a system for monitoring the shoulder mobility.

Description: Object of this study is the realization of a system, based on inertial sensors (MEMS) that can monitor the 3D movements of the shoulder.

The system should allow to follow the rehabilitation of a patient during his daily activities, giving a real time feedback about the correctness of his movements and a summary of the quantity of motion performed during the day. The project will be organized into the following main tasks:

- definition of the system requirements
- study of the applicable technologies
- evaluation of the MEMS sensors limits and possible compensatory strategies
- system development
- realization and validation of the first prototype on a sample of healthy subjects
- design of a first clinical trial on a sample of pathological subjects

Scientific disciplinary sector: MED/48 NEUROPSYCHIATRIC AND REHABILITATION NURSING SCIENCES

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

Required degree:

Dottorato di ricerca in Fisica

Subjects of the interview:

Modeling of physical phenomena and development of algorithms for their description, software development processes, technology transfer toward medical fields, biomechanics of the shoulder.

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 1.3.2017 at 10.00 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 1.3.2017 at 13.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The interview will be held on 1.3.2017 at 14.30 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.ssa Chiara Calderini on the phone number +39 342 977 8054 or via the email address: chiara.calderini@unige.it.

Scientific coordinator: Prof.ssa Chiara CALDERINI

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

Title: Structural response of historic masonry buildings to water-soil interaction related threats: numerical/experimental analyses and definition of damage indices.

Description: The research will mainly focus on the study of the structural response of monumental buildings subjected to water-soil interaction related threats and on the definition of mechanical damage indices and thresholds via the use of numerical and experimental analyses. Damage indices and thresholds will be defined with reference to suitable limit states, taking into account safety, conservation and economic issues, and will support the design of optimized structural and geotechnical monitoring strategies. The research will be mainly oriented to vaulted and arch monumental structures, for which very little research has been done with reference to water-soil interaction related threats. The research will be carried out within the project PRIN 2015 “Protecting the Cultural Heritage from water-soil interaction related threats” (national coordinator: Prof. R. Landolfo).

Scientific disciplinary sector: ICAR/09 STRUCTURAL ENGINEERING

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

Required degree:

Laurea Magistrale della classe LM-23 Ingegneria civile o LM4 Architettura e ingegneria edile-architettura.

Subjects of the interview:

Structural mechanics, Modelling and analysis of historic masonry structures, Protection of monumental building from natural hazards.

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 3.3.2017 at 8.45 in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), via Montallegro 1 – Scuola Politecnica, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 3.3.2017 at 11.45 in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), via Montallegro 1 – Scuola Politecnica, Genova

The interview will be held on 3.3.2017 at 12.00 in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), via Montallegro 1 – Scuola Politecnica, 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 Paola GUALENI

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

Title: Innovative design methodology for integration of an energy distributed system on board passenger ships.

Description: The aim of the activity is to develop an innovative design methodology for the preliminary design phase of a cruise ship of medium/large size. Specific attention will be paid to the energy issues on board looking for a superior performance in terms of safety, environmental protection and energy efficiency. The target is to overcome the traditional concept of power generation based on large diesel gen-sets and to use a superior number of power generation units (but of a smaller size), suitably distributed on board. Number, typology and size of the generation units will be defined in relation with aspects of zonal independence, electrical load, weights, volumes, auxiliaries. In this perspective, fuel cells technology will be particularly taken into account. A fundamental aspect will be the study of possible criticalities due to constraints related with flag and classification societies safety rules. After selection of generation units and their auxiliaries, the proper integration with the ship arrangement plan will be studied with special attention not to compromise the most important areas from the commercial point of view. In this activity also a superior ship survivability in case of flooding or fire will be pursued.

Scientific disciplinary sector: ING-IND/01 NAVAL ARCHITECTURE

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

Required degree:

Laurea V.O. in Ingegneria Navale

Laurea Specialistica della classe 37/S Ingegneria Navale

Laurea Magistrale della classe LM-34 Ingegneria Navale

Subjects of the interview:

Passenger ship design, safety rules in the maritime field, ship energy efficiency

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

RESEARCH PROGRAM NO. 14

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2017 at 9.00 in Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti (DIME), Via Opera Pia, 15 (piano terra, Aula Biblioteca), Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2017 at 12.00 in Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti (DIME), Via Opera Pia, 15 (piano terra, Aula Biblioteca), Genova

The interview will be held on 1.3.2017 at 14.00 in Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti (DIME), Via Opera Pia, 15 (piano terra, Aula Biblioteca), 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. Roberto Revetria on the phone number +39 320 7982156 or via the email address: roberto.revetria@unige.it.

Scientific coordinator: Prof. Roberto REVETRIA

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

Title: Development activities of a quality suitable to operate an Ansaldo Energia group consisting of more international companies.

Description: Develop innovative methodologies useful to support the development of a group of companies operating in the field of international plant with special reference to the energy sector. Apply techniques of Project Management, Change Management, Business Process Reengineering, Six Sigma, TQM, CRM orienting them to the development of a quality level for Ansaldo Energia. Implement and maintain quality management systems with special reference to Customer Satisfaction and HSE aspects.

Scientific disciplinary sector: ING-IND/17 INDUSTRIAL MECHANICAL PLANTS

Place: Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti (DIME)

Required degree:

Laurea Magistrale della classe LM-33 Ingegneria Meccanica

Subjects of the interview:

Project Management, Change Management, Business Process Reengineering, Six Sigma, TQM, CRM, Statistical Analysis techniques, Modeling elements of decisions with ANP and AHP, international standard HSE aspects

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

RESEARCH PROGRAM NO. 15

The assessment criteria for the qualifications and the interview will be affixed on **01.03.2017** at **9:30** in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Via Opera Pia 11 A, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **01.03.2017** at **12:30** in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Via Opera Pia 11 A, Genova

The interview will be held on **01.03.2017** at **14:30** in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), 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. Federico SILVESTRO

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

Title: Study and development of models for distributed generation on board ship.

Description: The topic of the research concerns the definition and development of a distributed generation solution for the electrical distribution on board.

The electrical network must be modeled and simulated in a suitable computing environment to be chosen during the research. The different electric balance (EPLA) solutions will be modeled with also a zonal approach taking into account storage systems.

Scientific disciplinary sector: ING-IND/33 ELECTRICAL POWER SYSTEMS

Place: Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN)

Required degree:

Laurea Magistrale della classe LM-34 Ingegneria Navale

Laurea Magistrale della classe LM-28 Ingegneria Elettrica

Subjects of the interview:

Methodological aspects for the modeling of marine processes; sw tools for modeling and multivariable optimization algorithms; EPLA (Electric Power Load Analysis); modeling of generation systems for on board electric systems.

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 28.02.2017 at 12:00 in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Via Opera Pia 11 A, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 01.03.2017 at 12:00 in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Via Opera Pia 11 A, Genova

The interview will be held on 02.03.2017 at 10:00 in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), 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.

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. Daniele Caviglia on the phone number +39 348 3053881 or via the email address: daniele.caviglia@unige.it

Scientific coordinator: Prof. Daniele CAVIGLIA

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

Title: Microelectronics interface circuits and power management for sensors in IoT systems.

Description: Some of the most critical circuits of IoT (Internet of Things) devices and systems are the circuit interface to the on field sensors and the power management circuit. The interface to the sensors must be versatile and must feature a very low power consumption in order to achieve a high battery life time. The power management circuit optimizes operations and timing to keep low the overall power consumption and to not affect system operation. The power management circuit effectively uses energy harvesting devices. The microelectronic implementation optimizes size, power consumption and system performance.

Scientific disciplinary sector: ING-INF/01 ELECTRONICS

Place: Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN)

Required degree:

Laurea V.O. in Ingegneria Elettrica o Elettronica o Biomedica o delle Telecomunicazioni o Fisica
Laurea Specialistica della classe 30/S Ingegneria delle Telecomunicazioni, 31/S Ingegneria Elettrica, 32/S Ingegneria Elettronica, 26/S Ingegneria Biomedica, 20/S Fisica
Laurea Magistrale delle classi LM-27 Ingegneria delle Telecomunicazioni, LM-28 Ingegneria Elettrica, LM-29 Ingegneria Elettronica, LM-21 Ingegneria Biomedica, LM-17 Fisica

Subjects of the interview:

- Microelectronic circuits
- Sensors interface circuits
- IoT systems

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

RESEARCH PROGRAM NO. 17

The assessment criteria for the qualifications and the interview will be affixed on **28.02.2017** at **9:00** in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), 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 **28.02.2017** at **12:00** in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Via Opera Pia 13, Genova

The interview will be held on **28.02.2017** at **12:30** in Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), 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.

Scientific coordinator: Prof. Raffaele BOLLA

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

Title: Mechanisms for energy aware management of the data center with cloud services.

Description: The energy consumption of the data center is a not an element for the reduction of both pollution and costs. To mitigate this problem, we can, among other things, take advantage of the server and network equipment capability of entering, when not subjected to load, in standby states with consumption close to zero. The purpose of this grant is to contribute to the development and testing some techniques to control the distribution of computational flow and the virtual machine in a datacenter to allow the optimal exploitation of the standby states in the servers. The work will involve, among other things, a development and extension activity within the open management tool OpenStack, with the aim to realize experiments.

Scientific disciplinary sector: ING-INF/03 TELECOMMUNICATIONS

Place: Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN)

Required degree:

Laurea V.O. in Ingegneria delle Telecomunicazioni o Ingegneria Informatica o Ingegneria Elettronica

Laurea Specialistica della classe 30/S Ingegneria delle Telecomunicazioni, 32/S Ingegneria Elettronica, 35/S Ingegneria Informatica

Laurea Magistrale della classe LM-27 Ingegneria delle Telecomunicazioni o Multimedia Signal Processing and Telecommunication Networks, LM-29 Ingegneria Elettronica, LM-32 Ingegneria Informatica

Subjects of the interview:

Notions of Telecommunications networks with particular regard to: architectures and protocols of the TCP / IP suite (with emphasis on the IPv4 and IPv6 protocols, TCP, OSPF, BGP); Access networks both wireless and wired, C ++ language, concurrent programming, operating system Linux. Basic elements of the datacenter management, OpenStack structure, components and functionality. Any insights about past experiences in the field of relevance and interest for the proposed activity.

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

RESEARCH PROGRAM NO. 18

The assessment criteria for the qualifications and the interview will be affixed on **6.3.2017** 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 **6.03.2017** at **12:30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via Opera Pia 13, Genova.

The interview will be held on **6.03.2017** at **14:30** 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.

Scientific coordinator: Prof. Giuseppe CASALINO

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

Title: Underwater robots control architectures and their real-time software implementation.

Description: The Interuniversity Research Center ISME is involved in two H2020 projects: WiMUST (Widely scalable Mobile Underwater Sonar Technology) and DexROV (Dexterous ROV: effective dexterous ROV operations in presence of communication latencies). Both projects use autonomous underwater robots for semi- or fully autonomous operations. ISME goal in both projects is to develop the robot control architecture to allow it to have sufficient autonomy in executing the required tasks (e.g. executing a survey for geotechnical and geophysical reasons, or executing some operations on undersea structures). This research project will concern the development of the related control software architecture (which will be exploited for both projects) and the execution of the relevant field trials

Scientific disciplinary sector: ING-INF/04 SYSTEMS AND CONTROL ENGINEERING

Place: Centro interuniversitario di ricerca di sistemi integrati per l'ambiente marino (ISME)

Required degree:

Laurea V.O. in Ingegneria Informatica

Subjects of the interview:

Excellent knowledge of C/C++ programming languages, soft and hard real-time operating systems, concurrent process programming and networked systems. Good knowledge of Matlab/Simulink.

Basic knowledge of robotics, cooperative robotics, guidance & navigation & control schemes, localization schemes, task priority based control techniques.

RESEARCH PROGRAM NO. 19

The assessment criteria for the qualifications and the interview will be affixed on 28.2.2017 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 28.2.2017 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 28.2.2017 at 14:00 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.

Scientific coordinator: Prof. Pierpaolo BAGLIETTO

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

Title: Design, development and test of software platforms for the Internet of Things applied to the application domain of Infomobility, Logistics, Safety and Security (ILS).

Description:

The research activities are:

- Definition of the requirements for software platforms for the Internet of Things applied to the application domain of Infomobility, Logistics, Safety and Security (ILS).
- Definition of software modules for IoT protocol support be integrated in an orchestrator of application services.
- Development of use cases.

The expected research results are:

- Software modules for IoT protocol support be integrated in an orchestrator of application services.
- Use cases based on the visual programming environment of the orchestrator.

Scientific disciplinary sector: ING-INF/05 INFORMATION PROCESSING SYSTEMS

Place: Centro Interuniversitario sull'Ingegneria delle Piattaforme Informatiche (CIPI)

Required degree:

Dottorato di ricerca in Ingegneria Informatica or equivalent title.

Subjects of the interview:

C/C++ programming, Java/JEE platforms and OSGi framework. Development of protocols for the Internet of Things. Architectures, integration models and mashup for application services. Design and development of virtualized systems based on XEN/KVM and VMWare platforms.

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

RESEARCH PROGRAM NO. 20

The assessment criteria for the qualifications and the interview will be affixed on 28.2.2017 at 8:30 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 28.2.2017 at 12:30 in Dipartimento di informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via Opera Pia 13, Genova.

The interview will be held on 28.2.2017 at 16:30 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. Antonio Sgorbissa on the phone number +39 010 353 2706 or via the email address:antonio.sgorbissa@unige.it.

Scientific coordinator: Prof. Antonio SGORBISSA

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

Title: Knowledge representation of bioethics issues in robotic systems for elderly support.

Description: The project aims at encoding, using formal tools for knowledge representation (ontologies), ethics issues that emerge during the development of personal robot for elderly support. The first part of the project will be focusing on the analysis and identification of bioethics issues and criticalities in the context of robotics application. The second part will aim at studying state-of-the-art knowledge representation tools for properly representing such issues (thus allowing the access to information and its elaboration through standard procedure for automatic reasoning).

Scientific disciplinary sector: ING-INF/06 ELECTRONIC AND INFORMATICS BIOENGINEERING

Place: Dipartimento di informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS)

Required degree:

Dottorato di ricerca in Diritto e Nuove Tecnologie, Bioetica o discipline affini.

Subjects of the interview:

Analysis and identification of bioethics issues and criticalities in the context of robotics application; formation of health professionals to bioethics issues; computer science tools for knowledge representation.

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

SCIENTIFIC DISCIPLINARY AREA: HISTORY, PHILOSOPHY, PEDAGOGY AND PSYCHOLOGY

RESEARCH PROGRAM NO. 21

The assessment criteria for the qualifications and the interview will be affixed on 28.2.2017 at 8:30 in Dipartimento di Scienze della Formazione (DISFOR), stanza 4A1, 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 28.2.2017 at 13:30 in Dipartimento di Scienze della Formazione (DISFOR), stanza 4A1, corso Andrea Podestà, 2, Genova.

The interview will be held on 28.2.2017 at 16:00 in Dipartimento di Scienze della Formazione (DISFOR), stanza 4A1, corso Andrea Podestà, 2, 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. Fabrizio Bracco on the phone number +39 010 209 53704 or via the email address:fabrizio.bracco@unige.it.

Scientific coordinator: Prof. Fabrizio BRACCO

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

Title: Development of an integrated methodology for the assessment and development of non-technical skills in simulated scenarios.

Description: The project aims at developing and validating a methodology for the observation and the assessment of non-technical skills of a team of electric workers engaged in a simulated scenario. The methodology will be based on the development of a checklist for the peer-to-peer observation and of a sensor-based system for the tracking of physiological and non verbal cues (e.g., posture, movement in space, gestures, gaze direction, etc.). The project will focus on the development of the checklist and its integration with the behavioural tracking system, developed by the Neuroscience of Emotion and Affective Dynamics Lab (NEAD), University of Geneva (Switzerland).

Scientific disciplinary sector: M-PSI/01 GENERAL PSYCHOLOGY

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:

Dottorato di ricerca in Psicologia, Antropologia e Scienze Cognitive

Subjects of the interview:

- Methodology for the assessment and observation of non-technical skills
- Methodology for training in simulation
- Previous professional and research experience on non-technical skills in simulation

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 1.3.2017 at 9:00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, IV piano, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2017 at 13:00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, IV piano, Genova.

The interview will be held on 1.3.2017 at 14:00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, IV 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.

Scientific coordinator: Prof.ssa Paola VITERBORI

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

Title: Executive function and morphosyntax in children with SLI and typical development.

Description: The principal aim of this research program is to investigate the role of executive function in the development of expressive morphosyntax in children with typical development and with specific language impairment (SLI). Different measures will be developed to assess different components of morphosyntax in Italian (in particular verb inflections, object clitics and prepositions). Three samples of children will take part in the study: a sample with SLI aged 5 and two samples of typically developing children, one matched for chronological age and the other for language ability. This research program aims to contribute to the research on the clinical markers and the cognitive correlates of SLI.

Scientific disciplinary sector: M-PSI/04 DEVELOPMENTAL AND EDUCATIONAL PSYCHOLOGY

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:

Laurea V.O. in Psicologia

Laurea Specialistica della classe 58/S Psicologia

Laurea Magistrale della classe LM-51 Psicologia

Subjects of the interview:

The following topics will be discussed during the interview:

- Language development (in particular expressive and receptive morphosyntactic development in the Italian language) in children with typical development and with SLI
- Executive function development, in particular in the preschool age
- Methods of language and executive function assessment in young children

Previous research experiences will be discussed during the interview

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

RESEARCH PROGRAM NO. 23

The assessment criteria for the qualifications and the interview will be affixed on 3.3.2017 at 9:00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, IV piano, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 3.3.2017 at 14:00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, IV piano, Genova.

The interview will be held on 6.3.2017 at 14:00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, IV 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.

Scientific coordinator: Prof.ssa Donatella CAVANNA

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

Title: Italian validation of an attachment measure based on narrative.

Description: The methodology to analyze the attachment in middle childhood and early adolescence lacks of a dominant conceptual or methodological approach (Bosmans and Kerns 2015). The candidate has to demonstrate experience (reliability) in the administration of a tool based on narrative to measure attachment, and be able to perform the correct steps of validation of the proposed instrument.

Scientific disciplinary sector: M-PSI/07 DYNAMIC PSYCHOLOGY

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:

Dottorato di ricerca in Psicologia, Antropologia e Scienze Cognitive

Subjects of the interview:

Verification of the candidate's familiarity with a wide range of tools to measure attachment in childhood, highlighting potential and limits, even from a clinical point of view. The candidate has to demonstrate knowledge on the validation steps of an attachment tool in middle childhood and early adolescence; and prior experience in the usage and in applied research concerning attachment measures based on narrative in this age.

SCIENTIFIC DISCIPLINARY AREA: ECONOMICS AND STATISTICS

RESEARCH PROGRAM NO. 24

The assessment criteria for the qualifications and the interview will be affixed on 1.3.2017 at 10.00 in Dipartimento di Economia (DIEC), 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 2.3.2017 at 10.00 in Dipartimento di Economia (DIEC), Via Vivaldi 5, Genova.

The interview will be held on 2.3.2017 at 14.00 in Dipartimento di Economia (DIEC), 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 Barbara CAVALLETTI

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

Title: Cost-Benefit analysis and economic evaluation of ecosystem services in Marine Protected Areas.

Description: According to the Millennium Ecosystem Assessment, in the last fifty years humans have changed ecosystems more rapidly and extensively than in any comparable period of time in human history. These changes, partly necessary to meet the rapidly growing demand for goods and services, have brought about gains in human well-being and economic development, but at growing costs in the form of degradation of many ecosystem services.

The research project is aimed at identifying procedures and fundamentals to carry out an environmental accounting analysis, capable of accounting for the economic value of an environmental asset and of those ecosystems that can preserve it, with a special reference to the Natural Marine Reserves in Italy. The final objective is to define an instrument that, using cost/benefit analysis methods and taking into account local peculiarities, could suggest optimal management policies.

Scientific disciplinary sector: SECS-P/03 PUBLIC ECONOMICS

Place: Dipartimento di Economia (DIEC)

Required degree:

Dottorato di ricerca in Economia Politica e Finanza Pubblica

Subjects of the interview:

- Methodological aspects of evaluation techniques for environmental accounting with specific reference to the evaluation of the ecosystem services (SE) of a Marine Protected Area.
- Shared and social value of ES and public policy alternatives. Analysis of the SE in terms of market failures in the presence of externalities related to the mismatch between private and public benefits (or costs).
- Appropriate valuation approach in different contexts to guide policy decision process that integrates ecosystem services into it (Contingent Valuation, Choice Experiment and Deliberative techniques).

RESEARCH PROGRAM NO. 25

The assessment criteria for the qualifications and the interview will be affixed on 28.2.2017 at 10.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole, 2, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.2.2017 at 13.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole, 2, Genova.

The interview will be held on 28.2.2017 at 14.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole, 2, 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 GANDULLIA

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

Title: Taxation and regulation of “demerit goods”: distributional implications.

Description: The term "demerit goods" is used to identify those types of goods / services whose consumption causes a damaging impact on consumer's health and negative externalities on society. Previous studies have shown that people belonging to the weaker social classes are more attracted by the consumption of these goods (traditionally consisting of alcohol, tobacco and gambling). The policies adopted in Italy in recent years have been many and varied among the different sectors. This project aims at filling an information gap currently present in Italy on the implications, in terms of equity, of the current tax and regulatory systems applied to "demerit goods" through an analysis of the degree of regressivity of the different products and through the identification of suitable tax policies able to reduce the unfairness of the current system.

Scientific disciplinary sector: SECS-P/03 PUBLIC ECONOMICS

Place: Dipartimento di Scienze Politiche (DISPO)

Required degree:

Dottorato di ricerca in Economia pubblica

Subjects of the interview:

Public Economics; Statistics and Econometrics.

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