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 27.11.2019 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 27.11.2019 at 12.00 in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

The interview will be held: on 27.11.2019 at 14.00 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: Computational methods for image reconstruction with application to Fourier data

Description: Image reconstruction from experimental data requires the development and application of regularization methods for the solution of ill-posed inverse problems. When these observations are sparse samples of the Fourier transform of the incoming field, the inversion techniques should be able to reduce the imaging artifacts associated to the solution of a Fourier inversion problem from limited data. Examples of this kind of problems are magnetic resonance imaging and the processing of visibilities recorded from space telescopes like the NASA Reuven Ramaty High Energy Solar Spectroscopic Imager (RHESSI) and the ESA Solar Telescope Imaging X-rays (STIX). The post-doc will develop and implement inversion algorithms for image reconstruction from visibilities exploiting, by instance, statistical and compressed sensing approaches, and apply them with the objective to reconstruct X-ray images of solar flares.

Scientific disciplinary sector: MAT/08 ANALISI NUMERICA

Place: Dipartimento di Matematica (DIMA)

Required degree: Dottorato di ricerca in Matematica, Matematica Applicata, Fisica, Ingegneria

Subjects of the interview: The interview will mainly assess the candidate’s knowledge about regularization methods for the numerical solutions of inverse problems in image reconstruction, with focus on the case of Fourier-type data

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 23.10.2019 at 9.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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 23.10.2019 at 14.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Dodecaneso 35, Genova.

The interview will be held on 23.10.2019 at 15.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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.ssa Nicoletta Noceti on the phone number +39 010 3536704 or via the email address: nicoletta.noceti@unige.it

Scientific coordinator: Prof.ssa Nicoletta NOCETI

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

Finanziamento: Progetto “Stairway to elders: bridging space, time and emotions in their social environment for wellbeing” - Bando Fondazione Cariplo 2018

Title: Expressive human motion analysis from videos

Description: The goal of this project is to design and develop video-based methods for expressive human motion analysis, with the goal of estimating the level of emotional wellbeing of observed subjects. To this purpose, state-of-art approaches for pose estimation will be analysed on the field and, if necessary, improved in terms of precision of the estimates incorporating a level of temporal analysis. The obtained measures will be exploited in two different direction: (i) to extract descriptive numeric features on multiple observation spans (multi-scale representation) providing a first coarse estimate of the emotional state of the observed individuals, (ii) to obtain an estimate of the quantity and quality of the social interaction among subjects, as a further cue of the overall emotional state.

Scientific disciplinary sector: INF/01 INFORMATICA

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


Subjects of the interview: Computational models for action representation, deep learning architectures for pose estimation and action recognition

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 23.10.2019 at 8.30 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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 23.10.2019 at 11.30 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Dodecaneso 35, Genova

The interview will be held: on 23.10.2019 at 11.45 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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.ssa Silvia Villa on the phone number +39 0103536601 or via the email address: silvia.villa@unige.it

Scientific coordinator: Prof. Lorenzo ROSASCO

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


Title: Theory and Algorithms for machine learning

Description: The projects aim at developing theoretical and algorithmic ideas to explain the success of current systems and suggest the development of novel efficient solutions. Candidates must have strong mathematical and computational skills. Topics of interest include but are not limited to: deterministic and random projections/ sketching, optimization methods for non-smooth/non convex problems (stochastic, accelerated, distributed, parallel methods). While the emphasis is on methodological and computational aspects, the candidates will have the opportunity to work in close collaborations on a number of application, including high energy physics data, robotics.

Scientific disciplinary sector: INF/01 INFORMATICA

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

Required degree:

Subjects of the interview:
Elements of machine learning theory and algorithms, and related fields (signal processing, optimization, statistics, applied mathematics).

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 21.10.2019 at 8.00 at 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 21.10.2019 at 14.30 at Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on 21.10.2019 at 15.00 at 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.

Scientific coordinator: Prof. Francesco BUATIER DE MONGEOT

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

Title: Plasmonic hybridization in coupled metal nanostructures

Description: Recent experiments have shown that it is possible to obtain the engineering of the plasmonic response of Au nanoparticles in the near infrared both through the modification of the dimensions of the individual metallic nanoparticles, and through the coupling of nanoparticles placed in the near field (plasmonic hybridization). The project will develop nanofabrication techniques both of self-organized type (based on ion beam sputtering) and top-down techniques (based on electron beam lithography) in order to realize and characterize metallic nanostructures with plasmonic functionality engineered in the visible and in the near infrared able to favor the coupling of matter radiation in 2D materials and in photocatalysis materials.

Scientific disciplinary sector: FIS/03 FISICA DELLA MATERIA

Place: Dipartimento di Fisica (DIFI)

Required degree:

Subjects of the interview:
Self-organized nanostructuring techniques with particular reference to ion beam sputtering, nanofabrication by electron beam lithography, optical and morphological characterization techniques of plasmonic nanostructures.

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 04.11.2019 at 11.00 at 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 04.11.2019 at 17.00 at Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on 06.11.2019 at 10.00 at 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.

Per i candidati residenti o domiciliati fuori dal territorio italiano e per coloro che risiedono e hanno il domicilio abituale oltre i 300 Km di distanza dalla sede della selezione, il colloquio potrà avvenire su richiesta anche in modalità telematica (videoconferenza per mezzo SKYPE) contattando per tempo Prof. Riccardo Ferrando e-mail all’indirizzo: ferrando@fisica.unige.it

Scientific coordinator: Prof. Riccardo FERRANDO

NO. 1 research fellowship - Duration 2 years – Annual pre-tax amount: € 27.133,00

Title: Diffusion and sliding of nanoparticles of solid surfaces.

Description: The fellowship is part of the activities of the project Understanding and Tuning FRiction project through nanOstructure manipulation (UTFROM). The project plans to investigate formation, deposition and dynamics of clusters on solid surfaces. The research activity is in the field of computational physics, for which research experience is required, in particular as regards molecular dynamics and Monte Carlo simulations applied to metal surfaces and aggregates.

Scientific disciplinary sector: FIS/03 FISICA DELLA MATERIA

Place: Dipartimento di Fisica (DIFI)

Required degree: Dottorato di ricerca in Fisica, Chimica, Scienza dei Materiali.

Subjects of the interview:

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 04.11.2019 at 13.00 at 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 04.11.2019 at 18.00 at Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on 05.11.2019 at 14.00 at 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.ssa Marina Putti on the phone number +39 010 3536383 or via the email address: putti@fisica.unige.it

Scientific coordinator: Prof.ssa Marina PUTTI

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

Title: Development of iron-based superconductor tapes for high magnetic field applications.

Description: The grant is funded within the PRIN HIBiSCUS project dedicated to the development of tapes for current transport of iron-based superconductors (IBS). These materials have excellent high-field superconducting properties and have been shown to be grown in various forms and mainly as films. HIBiSCUS aims at developing IBS tapes, based on the technologies developed in recent decades for high-Tc superconductors with the aim of simplifying processes to drastically reduce manufacturing costs and time.

The research activity of the researcher will be mainly dedicated to the deposition by laser ablation of Fe (Se, Te) films on various oriented metal templates and their characterization through measurements of critical field and critical current even in high magnetic field.

Scientific disciplinary sector: FIS/03 FISICA DELLA MATERIA

Place: Dipartimento di Fisica (DIFI)

Required degree:
Laurea V.O. in Fisica, in Ingegneria dei materiali; Laurea Specialistica delle classi 20/S Fisica, 61/S Scienza e ingegneria dei materiali; Laurea Magistrale delle classi LM-17 Fisica, LM-53 Scienza e Ingegneria dei Materiali.

Subjects of the interview:
Thin film deposition techniques; techniques for the characterization of superconducting properties; properties of iron-based superconductors.

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 28.10.2019 at 9.00 at 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 28.10.2019 at 12.30 at Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on 28.10.2019 at 14.00 at 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. Mario Agostino Rocca on the phone number +39 010 3536392 or via the email address: rocca@fisica.unige.it

Scientific coordinator: Prof. Mario Agostino ROCCA

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

Title: Carbon-based nanostructures doped with metal atoms: morphology and chemical activity.

Description: The project involves the synthesis and the morphological and chemical characterization of carbon-based nanostructures doped with transition metal atoms. The nanostructures will be grown in situ by surface-assisted polymerization of suitable molecular precursors already containing the metal atom; it will be the task of the research fellow to optimize the polymerization process and to investigate the morphology of the intermediate and final products using scanning tunnelling microscopy (LT-STM). The electronic properties of the optimized nanostructures will be studied by means of X-ray photoemission spectroscopy while the reactivity with simple molecules such as O2, CO, H2O will be analyzed mainly by vibrational spectroscopy (HREELS).

Scientific disciplinary sector: FIS/03 FISICA DELLA MATERIA

Place: Dipartimento di Fisica (DIFI)


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 29.10.2019 at 13.00 at 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 29.10.2019 at 18.30 at Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

The interview will be held on 30.10.2019 at 14.00 at 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 Vattuone on the phone number +39 010 3536554 or via the email address: vattuone@fisica.unige.it

Scientific coordinator: Prof. Luca VATTUONE

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

Title: Experimental investigation of the chemical reactivity of strained graphene.

Description: In the first part of the project the existing low Temperature STM will be modified to study graphene samples under conditions of mechanical strain. The samples will be provided by the partner of the PRIN project: MONolithic STRain Engineering platform for TWO-Dimensional materials (MONSTRE 2D).

In the second part adsorption of both simple molecules and diazonia salts will be investigated to determine the effect of mechanical strain on the adsorption energy of such molecules.

Scientific disciplinary sector: FIS/03 FISICA DELLA MATERIA

Place: Dipartimento di Fisica (DIFI)

Required degree:

Subjects of the interview:

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 28.10.2019 at 18.00 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 29.10.2019 at 12.00 in Dipartimento di Chimica e Chimica Industriale (DCCI), Via Dodecaneso 31, Genova.

The interview will be held on 29.10.2019 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.

Scientific coordinator: Prof.ssa Renata RIVA

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

Title: Multicomponent synthesis of new STAT3 protein inhibitors

Description This multidisciplinary project is focused on the synthesis of new molecules as potential inhibitors of protein STAT3, a very promising and interesting molecular target for cancer therapy. For exploring the structural diversity of the new molecules, several different building blocks will be synthesized, combining them together through multicomponent reactions, especially the Ugi reaction. This will allow the employment of highly efficient step and atom economic procedures. The choice of the structures to be synthesized will be made on the basis of docking studies and the biological properties will be evaluated "in vitro" and "in vivo" as well, thanks to the collaboration with the research groups involved in the project.

Scientific disciplinary sector: CHIM/06 CHIMICA ORGANICA

Place: Dipartimento di Farmacia (DIFAR)

Required degree:

Subjects of the interview:
Diversity oriented synthesis, asymmetric synthesis, especially catalytic methods (biocatalysis, organocatalysis), multicomponent reactions, heterocycles synthesis.

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 05.11.2019 at 10.00 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 05.11.2019 at 15.00 in Dipartimento di Farmacia (DIFAR), Viale Benedetto XV, Genova.

The interview will be held on 07.11.2019 at 9.00 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 on the phone number +39 010 353 8362 or via the e-mail address: schensil@unige.it

Scientific coordinator: Prof.ssa Silvia SCHENONE

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

Title: Synthesis of inhibitors of protein kinases involved in cancers

Description: Protein kinases are a family of enzymes which are involved in the onset and development of many cancers, including neuroblastoma (NB) and glioblastoma (GB). As part of the project relating to this research grant, protein kinase inhibitors endowed with a pyrazole-pyrimidine scaffold will be synthesized as potential antiproliferative agents on NB and GB cell lines. The compounds will be prepared based on suggestions of computational studies. In order to expand the structure-activity relationships of this family of compounds, isosters of the pyrazole-pyrimidine cycle will be also synthesized. The new derivatives will be tested in enzymatic assays on a panel of kinases and the most active compounds will be evaluated on NB and 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- and pyrrolo-pyrimidines. Protein kinases as targets of anticancer compounds.

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 06.11.2019 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 06.11.2019 at 12.30 in Dipartimento di Scienze della Terra, Dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova

The interview will be held on 06.11.2019 at 16.00 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: € 27,133,00

Title: Life Project “Stonewallsforlife”: Using Dry-Stone Walls as a Multi-purpose Climate Change Adaptation tool. Activity A1 – Preparatory studies and D1 - Technical and Scientific Monitoring of the impact of the project actions; geomorphologic and hydrographic aspects.

Description: Precipitations intensified by climate change, combined with the abandonment of the terraces, expose the territory and its inhabitants to floods and landslides. The restoration of abandoned terraced slopes has been identified as a tool to mitigate the geo-hydrological risks. In this light, the research fellow will work on the analysis of forms and geomorphological processes aiming to identify any dangerous factors related to the construction and maintenance of dry-stone walls and terraced strips. Moreover, dry-stone walls and man-made structures will be mapped and hydrological and topographical measurements will be performed to monitor the effects of the new interventions realized on terraced slopes.

Scientific disciplinary sector: GEO/04 GEOGRAFIA FISICA E GEOMORFOLOGIA

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

Required degree: Dottorato di ricerca in Scienze della Terra; Scienze e Tecnologie per l’Ambiente e il Territorio, curriculum Scienze della Terra.

Subjects of the interview: Geomorphological survey and mapping; Morphological features of terraced slopes and terraces; GNSS topographic survey; geomorphometry and data analysis in a GIS environment.
RESEARCH PROGRAM NO. 12

The assessment criteria for the qualifications and the interview will be affixed on 05.11.2019 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 05.11.2019 at 12.30 in Dipartimento di Scienze della Terra, Dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova

The interview will be held on 05.11.2019 at 16.00 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: € 27.133,00

Title: Life Project “Stonewallsforlife” LIFE18 CCA/IT/001145: Using Dry-Stone Walls as a Multi-purpose Climate Change Adaptation tool. Activity A1 (Preparatory studies and D1 - Technical and Scientific Monitoring of the impact of the project actions); geological-structural and geotechnical aspects.

Description: Precipitations intensified by climate change, combined with the abandonment of the terraces, expose the territory and its inhabitants to floods and landslides. The restoration of abandoned terraced slopes has been identified as a tool to mitigate the geo-hydrological risks. In this light, the research fellow will work on the creation of a geological-structural model that can provide precise indications on the spatial relationships between discontinuity planes (stratification, substrate fracture planes) and the dry stone walls structures characterizing the slopes inside the project area. Moreover, geotechnical surveys and slope-stability analysis will be performed to monitor the effects of the new interventions realized on terraced slopes.

Scientific disciplinary sector: GEO/05 GEOLOGIA APPLICATA

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

Required degree:

Subjects of the interview:
Analysis of results of in situ and laboratory geotechnical tests; slope stability and consolidation, use of multiparameter monitoring stations, geotechnical properties of soils, rainfall trigger thresholds, geological, geotechnical and soil mechanics.
The assessment criteria for the qualifications and the interview will be affixed on 30.10.2019 at 9.00 in Dipartimento di Scienze della terra, dell’ambiente e della vita (DISTAV) - 7° piano, 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 30.10.2019 at 12.00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) - 7° piano, Corso Europa 26, Genova.

The interview will be held on 30.10.2019 at 15.00 in Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) - 7° 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.

Scientific coordinator: Prof. Marco BERTOLINO

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

Title: Ecology morphology and phylogeny of Antarctic sponges

Description Sponges represent a dominant component of the Antarctic benthos and play a key role in community dynamics, dominating both in terms of abundance and biomass, covering about 55% of the substrate. More than 400 sponges species have been identified in Antarctica and over 70% belong to the Demospongiae class and 44% of the species are endemic to this continent. The high rate of endemism is due to the long temporal and biogeographical isolation of the Southern Ocean from the other seas in the southern hemisphere.

Scientific disciplinary sector: BIO/05 ZOOLOGIA

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

Required degree: Laurea magistrale della classe LM-75 Scienze del Mare

Subjects of the interview: Ecology, morphology, and phylogeny of Antarctic sponges; methods and techniques for the taxonomic sponges study. The candidate must demonstrate knowledge of the most recent results published in the international scientific literature of the sector.

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 29.10.2019 at 9.00 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 29.10.2019 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 29.10.2019 at 14.00 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. Mauro MARIOTTI

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

Title: Support to the "WP3 - Review, share and improve knowledge on biodiversity" of the COBIODIV project (CUP B25119000250007) with regard to the actions WP3.3, WP3.4 and WP3.5.

Description: State of the art of the Natura 2000 fauna species in Liguria, applied monitoring protocols and contextual verification of the alignment of the data currently in Li.Bi.Oss.- Definition of a list of fauna monitoring priorities for the Liguria Region- Collaboration with partners in defining the priorities of the cross-border area and in the study of possible convergence of fauna protocols.- Application of the ATB protocol in 3 sites: Binda peat bog, Banea source (ZSC IT1314610 M. Saccarello - M.Fronté), open summit area on Monte Bignone (ZSC IT1315806 Monte Nero - Monte Bignone)- Participation in cross-border exchange seminars.

Scientific disciplinary sector: BIO/05 ZOOLOGIA

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

Required degree:
Laurea V.O. in Scienze Naturali; Laurea Specialistica della classe 68/S Scienze della natura; Laurea Magistrale della classe LM-60 Scienze della natura.

Subjects of the interview:
1) Fauna monitoring with particular regard to protocols and methods applicable within the Natura 2000 network. 2) Ligurian species of conservation interest of the entomofauna and ornithofauna, with particular regard to the species protected by European Directive 92/43. 3) Biology and geography of Lepidoptera, Neuroptera and / or Cerambycid Coleoptera of particular conservation interest in Liguria.
RESEARCH PROGRAM NO. 15

The assessment criteria for the qualifications and the interview will be affixed on 05.11.2019 at 10.00 in Dipartimento di Farmacia (DIFAR), Viale Benedetto XV 3, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 05.11.2019 at 15.00 in Dipartimento di Farmacia (DIFAR), Viale Benedetto XV 3, Genova.

The interview will be held on 07.11.2019 at 9.00 in Dipartimento di Farmacia (DIFAR), Viale Benedetto XV 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 Angela BISIO

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

Title: Applied research solutions for mountain agriculture 4.0 within the INTERREG ALPIMED INNOV project.

Description The general objective of the INNOV project is to strengthen the mountain economy of the ALPIMED territory and the innovation ecosystem on the strategic themes of the PITER through the support to the promotion and development of the enterprises and the collaboration between companies, territorial actors and the research world. The research project will focus on the themes of WP4.2 "Development of innovation on strategic issues ALPIMED PATRIM", and in particular on action 4.2.2 "PATRIM applied research solutions". WP4 aims to create an applied innovation ecosystem in the ALPIMED area. The research fellow will work on the Living Lab collaboration model, about traceability and packaging of mountain products to ensure greater life-shelf and connection to the ALPIMED territory.

Scientific disciplinary sector: BIO/15 BIOLOGIA 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:
Traceability methods of mountain herbal products, including extraction and dosage of bio-constituents, microbiological process controls and trace metal control. Chromatographic extraction and spectroscopic techniques applied to the isolation and structural elucidation of secondary plant metabolites.

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 11.11.2019 at 10.00 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 11.11.2019 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 11.11.2019 at 16.00 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. Luigi VEZZULLI

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

Title: Analysis of microbial pathogenicity and virulence in Vibrio strains isolated from deep-sea environments

Description: This study will deal with the genomic analysis of marine Vibrio strains, phylogenetically related to strains of human and animal pathogenic bacteria, isolated from "deep-sea" environments such as oceanic trenches and deep hydrothermal vents using "Next Generation Sequencing" techniques (eg Whole Genome Sequencing-WGS). The aim of the study will be to investigate the origins and evolutionary bases of microbial pathogenicity in ancestral microbial strains isolated from deep remote environments.

Scientific disciplinary sector: BIO/19 MICROBIOLOGIA

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

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

Subjects of the interview:
Biology and ecology of marine bacteria. Vibrios pathogenic for humans and animals: biology, ecology and pathogenicity. Isolation, cultivation, identification and typing of marine pathogenic bacteria (culture and molecular based assays also based on "next generation sequencing" protocols.)
RESEARCH PROGRAM NO. 17

The assessment criteria for the qualifications and the interview will be affixed on 06.11.2019 at 8.30 in Dipartimento di Medicina Sperimentale (DIMES), Sezione di Patologia Generale, Via L.B. Alberti 2, Genoa.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 06.11.2019 at 12.00 in Dipartimento di Medicina Sperimentale (DIMES), Sezione di Patologia Generale, Via L.B. Alberti 2, Genoa.

The interview will be held on 06.11.2019 at 14.30 in Dipartimento di Medicina Sperimentale (DIMES), Sezione di Patologia Generale, Via L.B. Alberti 2, Genoa.

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 Cinzia M. DOMENICOTTI

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

Title: Investigating resistance to Vemurafenib in human metastatic melanoma cells.

Description: Despite the encouraging results obtained with Vemurafenib, most patients with metastatic BRAFV600E-mutated melanoma no longer respond to therapy after 6-7 months of treatment. The acquisition of resistance is the main factor in the failure of anticancer therapy and this project intends to study the molecular mechanisms involved in Vemurafenib resistance. Therefore, in order to select a resistant population, BRAFV600E-mutated-melanoma cell lines, isolated from patients with metastatic melanoma, will be chronically treated with increasing doses (0.1 to 1.5 μM) of the drug.

Scientific disciplinary sector: MED/04 PATOLOGIA GENERALE

Place: Dipartimento di Medicina Sperimentale (DIMES)

Required degree: Laurea Magistrale della classe LM-6 Biologia

Subjects of the interview:
Preparation of 2D and 3D cell cultures and selection of cell lines resistant to therapies; analysis of cellular metabolism and oxidative state by biochemical and microscopy assays; analysis of the cellular phenotype in terms of clonogenicity, migration, invasiveness and senescence; protein silencing/overexpression techniques by transient transfections of cell lines.

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 07.11.2019 at 8.30 in Dipartimento di Medicina Sperimentale (DIMES), Sezione di Patologia Generale, Via L.B. Alberti 2, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 07.11.2019 at 12.00 in Dipartimento di Medicina Sperimentale (DIMES), Sezione di Patologia Generale, Via L.B. Alberti 2, Genova.

The interview will be held on 07.11.2019 at 14.30 in Dipartimento di Medicina Sperimentale (DIMES), Sezione di Patologia Generale, Via L.B. Alberti 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.ssa Roberta RICCIARELLI

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

Title: Investigating the processing of Tau and Amyloid-beta in physiological and Alzheimer’s disease conditions.

Description: The main goal of the project is to investigate the mechanisms underlying Alzheimer's disease by understanding the physiological function(s) of amyloid-beta peptides. Moreover, the complex route of tau phosphorylation, particularly associated with neurodegenerative phenomena, will also be evaluated. The initiative proposed here arises from a series of important results obtained by our research group concerning the role of cyclic nucleotides (cAMP and cGMP), amyloid-beta and tau in the mechanisms regulating synaptic plasticity and memory formation/consolidation.

Scientific disciplinary sector: MED/04 PATOLOGIA GENERALE

Place: Dipartimento di Medicina Sperimentale (DIMES)

Required degree: Laurea Magistrale della classe LM-13 Farmacia e farmacia industriale

Subjects of the interview:
Synthesis of labelled peptides, production of recombinant proteins and protein purification methods, mechanisms related to amyloid-beta precursor protein processing and tau phosphorylation, effects of phosphodiesterase inhibitors on cognitive processes.

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 06.11.2019 at 8.30 in Amministrazione/Direzione (DiMI) I° piano in 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 06.11.2019 at 11.30 in Amministrazione/Direzione (DiMI) I° piano in Viale Benedetto XV n°6, Genova

The interview will be held on 06.11.2019 at 12.00 in aula multimediale I° piano Avancorpo (DIMI) in 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. Michele Cea on the phone number +39 010 3537970 or via the email address: michele.cea@unige.it

Scientific coordinator: Prof. Michele CEA

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

Title: Uncovering mechanisms of resistance to proteasome inhibitions in multiple myeloma: an integrated functional-transcriptomic approach.

Description: Biologic mechanisms of drug resistance still remain an unmet medical need. Here we plan to use an integrated approach, including gene expression analysis, miRNA expression, and whole transcriptome sequencing from relapsed and refractory (RRMM) samples of MM patients, as a strategy to decipher molecular mechanisms underlying Proteasome Inhibitors resistance in MM. To this aim, we will use data derived from MM cell lines to direct investigations into primary samples, and then to use in vitro models to fully validate unbiased data obtained from expression and sequencing studies. Finally, by functionally characterizing the novel identified mechanisms of resistance, we plan to design novel innovative strategies for restoring PIs-sensitivity in resistant cells.

Scientific disciplinary sector: MED/15 MALATTIE DEL SANGUE

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

Required degree: Laurea V.O. in Biotecnologie indirizzo Biotecnologie Mediche, Veterinarie e Farmaceutiche; Laurea Specialistica della classe 9/S Biotecnologie Mediche, Veterinarie e Farmaceutiche; Laurea Magistrale della classe LM-79 Laurea magistrale in Biotecnologie.

Subjects of the interview: Genomic landscape and biology of Multiple Myeloma. Basic molecular biology techniques knowledge including DNA sequencing, mRNA extraction, reverse transcription to cDNA, Real-Time Quantitative PCR (RTQ-PCR) and other laboratory techniques.

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 06.11.2019 at 13.00 in Amministrazione/Direzione (DiMI) I° piano in 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 06.11.2019 at 16.00 in Amministrazione/Direzione (DiMI) I° piano in Viale Benedetto XV n°6, Genova

The interview will be held on 06.11.2019 at 16.30 in aula multimediale I° piano Avancorpo (DIMI) in 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. Michele Cea on the phone number +39 010 3537970 or via the email address: michele.cea@unige.it

Scientific coordinator: Prof. Michele CEA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23,250,00

Title: Investigating the functional and clinical relevance of RNA splicing dysregulation in multiple myeloma.

Description: The process of RNA splicing has been known for some time as regulating gene function in normal cells, but only very recently has its dysregulation been implicated in cancer. Preliminary studies clearly demonstrate that RNA splicing provides a new mechanism for augmenting the transformed state in MM cells. Here we will examine the poorly-defined molecular and cellular mechanisms that drive RNA splicing on MM cells and our study will lay the groundwork for development of novel targeted therapeutic strategies in such a tumor. Overall the design of proposal maximizes both translational potential and the likelihood of high-yield discovery with a tremendous potential for high-impact advances also for other hematologic malignancies.

Scientific disciplinary sector: MED/15 MALATTIE DEL SANGUE

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

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

Subjects of the interview:
Genomic landscape and biology of Multiple Myeloma. Basic molecular biology techniques knowledge including DNA sequencing, mRNA extraction, reverse transcription to cDNA, Real-Time Quantitative PCR (RTQ-PCR) and other laboratory techniques.

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 06.11.2019 at 8.30 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 06.11.2019 at 11.30 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) - Clinica Neurologica, Largo Daneo 3, Genova.

The interview will be held on 06.11.2019 at 14.30 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 Matilde INGLESE

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

Title: Cerebral and retinal vascular assessment in people with multiple sclerosis undergoing aerobic exercise and cognitive rehabilitation.

Description: With this project we are going to study cerebral and retinal vascular architecture (as assessed with arterial spin labelling sequences on MRI and optical coherence tomography angiography, respectively) of multiple sclerosis (MS) patients undergoing aerobic exercise in addiction to cognitive rehabilitation, in order to (I) assess correlations between retinal blood vessels density and cerebral perfusion, (II) investigate whether baseline retinal and cerebral perfusion parameters can predict response to rehabilitation interventions, and (III) evaluate whether such interventions can induce changes within the CNS vascular network. We might provide evidence supporting the role of angiogenesis as mechanism underlying clinical and radiological changes induced by rehabilitation interventions in MS.

Scientific disciplinary sector: MED/26 NEUROLOGIA

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

Required degree: Laurea specialistica della classe 46/S Medicina e chirurgia

Subjects of the interview: Cognitive rehabilitation and aerobic exercise in multiple sclerosis, optical coherence tomography, cerebral perfusion.

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 04.11.2019 at 12.00 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 04.11.2019 at 15.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) - Clinica Neurologica, Largo Daneo 3, Genova.

The interview will be held on 04.11.2019 at 16.00 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. Flavio Mariano NOBILI

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

Title: The prognostic evaluation in a natural cohort of asymptomatic or MCI affected subjects, assessing biomarkers value.

Description: Mild Cognitive impairment may be due to many causes, Alzheimer disease is the most frequent neurodegenerative disorder and MCI represents the early phase. Also, Rapid eye movement sleep behavior disorder may be due to α-Synucleinopathy and it can lead to MCI. The role of biomarkers is not fully elucidated, regarding the individual risk of clinical deterioration and the prognostic value. The study aims to evaluate the possibility of early diagnosis and prognostic information provided by biomarkers. To this purpose, a group of MCI patients with evidence of beta-amyloid pathology and a group of idiopathic RBD with impaired DAT-SPECT will be prospectively evaluate, in order to intercept the development of dementia due to several neurodegenerative diseases.

Scientific disciplinary sector: MED/26 NEUROLOGIA

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

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

Subjects of the interview:
- biomarkers of cerebral amyloidosis
- biomarkers of nigrostriatal pre-synaptic damage
- methods of semi-quantification of amyloid PET

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 31.10.2019 at 9.00 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 31.10.2019 at 12.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) - Clinica Neurologica, Largo Daneo 3, Genova.

The interview will be held on 31.10.2019 at 14.00 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. Gianluigi ZONA

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

Title: Pre and post-surgical neuropsychological evaluation in patients with brain tumor

Description: In patients harboring brain neoplasms, collaboration between neuropsychologist, neurosurgeon, neuroradiologist and neurophysiologist may contribute to better explore anatomo-functional networks not yet completely known. The primary endpoint of the present project is to evaluate in these patients their performances in the pre-, intra (awake surgery), and post-operative phase other than at three months after surgery, by means of standardised tests useful to compare their neuropsychological status. Secondary endpoint will be to evaluate in which measure the precise neuropsychological framework and the post-operative cognitive rehabilitation could improve halted function and quality of life in these patients.

Scientific disciplinary sector: MED/27 NEUROCHIRURGIA

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

Required degree: Laurea magistrale della classe LM-51 Psicologia

Subjects of the interview:
- Adult neuropsychological framework
- Phasic function disorders: from testing to rehabilitation
- New theories on phasic function (up-stream and down-stream)

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 06.11.2019 at 9.30 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) Neurologia Pediatrica e Malattie Muscolari- Istituto ‘G. Gaslini’, Via Gaslini, Padiglione 16, I Piano, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 06.11.2019 at 12.30 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) Neurologia Pediatrica e Malattie Muscolari- Istituto ‘G. Gaslini’, Via Gaslini, Padiglione 16, I Piano, Genova.

The interview will be held on 06.11.2019 at 13.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) Neurologia Pediatrica e Malattie Muscolari- Istituto ‘G. Gaslini’, Via Gaslini, 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.

Scientific coordinator: Prof. Pasquale STRIANO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23,250,00

Title: Identification of new genes by exome sequencing in lennox-gastaut syndrome

Description: Lennox-Gastaut Syndrome (LGS) is characterized by a triad of signs including multiple seizure types (atonic, tonic and atypical absence seizures), moderate to severe cognitive impairment, and abnormal EEG with slow spike-wave complexes. No studies were specifically carried out for this condition so far. We will study patient-parents trios composed by probands with early onset encephalopathies and their parents. Exome sequencing will be carried out on a Illumina HiSeq 2000 platform using the Nextera Exome Enrichment kit to selectively enrich the coding regions of the genome. Genes affected by putative mutations will be screened in an additional cohort of patients with EEs to further define genotype-phenotype correlations.

Scientific disciplinary sector: MED/38 PEDIATRIA GENERALE E SPECIALISTICA

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

Required degree: Laurea magistrale delle classi LM-6 Biologia, LM-9 Biotecnologie mediche, veterinarie e farmaceutiche.

Subjects of the interview: Epilepsy genetics, epileptic encephalopathies, diagnostic techniques in epilepsy.

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 28.10.2019 at 10.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) - Segreteria Clinica Pediatrica e Reumatologia, Pad.16 primo piano, Istituto Giannina Gaslini, Via G. Gaslini 5, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.10.2019 at 13.00 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) - Segreteria Clinica Pediatrica e Reumatologia, Pad.16 primo piano, Istituto Giannina Gaslini, Via G. Gaslini 5, Genova.

The interview will be held on 28.10.2019 at 14.30 in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI) - Segreteria Clinica Pediatrica e Reumatologia, Pad.16 primo piano, Istituto Giannina Gaslini, Via G. Gaslini 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. Stefano VOLPI

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

Title: Advanced genetic engineering to study and treat monogenic diseases

Description: Despite the promises of gene editing to transform the field of hematopoietic stem cell gene therapy, several challenges remain to be overcome before its clinical development. One of the main limitations is the poor efficiency of the current genetic editing protocols based on homologous recombination. The project aims to test new genetic engineering strategies with to develop in vitro models based on induced pluripotent stem cell (iPS) technology to study the pathogenesis and to improve the therapeutic intervention in an hereditary inflammatory disease, STING activated Vasculopathy with onset in infancy (SAVI), for which a conventional gene therapy approach cannot be used.

Scientific disciplinary sector: MED/38 PEDIATRIA GENERALE E SPECIALISTICA

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

Required degree: Dottorato in Scienze Biomediche Cliniche e Sperimentali - Biotecnologie cellulari e molecolari - Immunologia clinica e sperimentale

Subjects of the interview: Methods for cell culture, generation of iPS cell lines, principal strategies for gene editing.

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 05.11.2019 at 9.00 in Dipartimento di Scienze della Salute (DISSAL) 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 05.11.2019 at 12.00 in Dipartimento di Scienze della Salute (DISSAL) Via A. Pastore 1, Genova

The interview will be held on 05.11.2019 at 14.30 in Dipartimento di Scienze della Salute (DISSAL) 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. Paolo DURANDO

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

Title: Prevention of injuries in the healthcare setting: epidemiological analysis, evaluation of the current knowledge and innovative programs in students and graduates in specialist training at the University of Genoa

Description: The project aims to carry out an accurate evaluation of the current knowledge, beliefs and attitudes of the target population of the study related to the occupational hazards and risks of injuries in the healthcare setting, based on the knowledge acquired from the review of the current literature. For this purpose, students will be enrolled in the three-year and master's degree courses in health and post-graduate specialization training at the School of Medical and Pharmaceutical Sciences of the University of Genoa, through the administration of a questionnaire, structured - validated. The results obtained and compared with the available evidence will provide a basis for implementing targeted training and dissemination of knowledge.

Scientific disciplinary sector: MED/44 MEDICINA DEL LAVORO

Place: Dipartimento di Scienze della Salute (DISSAL)

Required degree:
Laurea della classe SNT4 Scienze delle professioni sanitarie della prevenzione

Subjects of the interview:
- Risk factors in the healthcare setting - Prevention of blood-borne biological risk injuries - Slips, trips and falls epidemiology as occupational injuries in the healthcare setting.
RESEARCH PROGRAM NO. 27

The assessment criteria for the qualifications and the interview will be affixed on 30.10.2019 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 30.10.2019 at 14.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The interview will be held on 30.10.2019 at 16.00 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. Giovanni BESIO

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

Title: Wave forecast numerical modelling for assistance to maritime traffic.

Description: Within the framework of the European research project Interreg Italy Maritime France SICOMAR+, the operational unit of the University of Genoa has the task of implementing, optimizing and validating a meteorological and marine forecasting chain within the cooperation area (Tyrrhenian centroscole) in order to develop decisional tools for navigation assistance. In particular, the check will have as its object the implementation of a model of generation and propagation of third generation wave motion on unstructured mesh with computational times optimized for operation in operation.

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

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


Subjects of the interview:
Wave Mechanics, Wave Numerical Modelling, Fluid Mechanics

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 30.10.2019 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 30.10.2019 at 13.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The interview will be held on 30.10.2019 at 14.00 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. Domenico SGUERSO

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

Title: Two-dimensional analysis of the presence of water vapour based on GPS/GNSS meteorological data on the Roia basin with particular attention to the Bendola sub-basin.

Description: The study of the cross-border area centred on the Roia basin aims to address, within the framework of the research project INTERREG V-A France - Italy ALCOTRA 2014-2020 CONCERT-EAUX, the analysis of the historical evolution of the zenithal tropospheric delay (ZTD) and the production of maps of the potentially precipitable water vapour content (PWV), obtained through an innovative procedure developed by the research group from GPS/GNSS meteorological data. The candidate will have to apply this procedure by processing the network of highest density relative to the Bendola basin, recently instrumented with a network of dedicated sensors, framing it in the surrounding area of the Roia basin to obtain maps of PWV useful for monitoring its evolution.

Scientific disciplinary sector: ICAR/06 TOPOGRAFIA E CARTOGRAFIA

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

Required degree: Dottorato di ricerca in Ingegneria Civile, Chimica e Ambientale.

Subjects of the interview: GNSS satellite positioning, with particular attention to Permanent Station Networks; Physics of the atmosphere, with particular reference to tropospheric models; Determination of the zenith tropospheric delay and problems related to its evaluation in real time; Determination of the precipitable water vapour content from the zenith tropospheric delay and ground pressure and temperature values.

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 28.10.2019 at 15.00 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 30.10.2019 at 9.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The interview will be held on 30.10.2019 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.

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 Brencich on the phone number +39 335818732 or via the email address: brencich@dicca.unige.it

Scientific coordinator: Prof. Antonio BRENCICH

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

Title: Safety of buildings: survey, mapping the damage, monitoring, structural safety applied to the buildings of the university of genoa, to balbi-senarega palace (s. sabina square) and dept. of economics in calata de mari as detailed examples.

Description: Definition of a methodology for assessing the safety of school buildings to apply to the University of Genoa. Phases of the activity: i) Visual inspection and safety assessment; ii) Map of the damage; iii) Monitoring; iv) Assessment with increasing detail of the identified damages. Each phase may be preceded by specific tests needed for the analysis. Application of the procedure: building set of the University of Genoa. Specific attention is provided to the following aspects: i) slabs; ii) safety of the parts of the buildings added after the construction; iii) creep. The case studies will be chosen by the University Offices. The activity will be focused on the damage patterns of Balbi-Senarega Palace in S. Sabina square and of the Dept. of Economics in calata De Mari.

Scientific disciplinary sector: ICAR/09 TECNICA DELLE COSTRUZIONI

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

Required degree: Laurea V.O. in Ingegneria Civile; Laurea Specialistica della classe 28/S Ingegneria civile; Laurea Magistrale della classe LM-23 Ingegneria civile

Subjects of the interview: - Basic issues of Structural Engineering (Mechanics of Structures, Structural Engineering), - Design of r.c. (ordinary and pre-stressed), steel, masonry, wood structures - Damage of structures (masonry, reinforced concrete, steel structures) and related procedures for retrofitting/strengthening; - Assessment of the seismic vulnerability; works for improving the seismic performance of buildings and structures and for upgrading it to the code standards. - Dynamic response of Structures. - Monitoring of structures: tools, procedures, reading the data and analysis of the data, alarm levels. - Basic issues of architectural detailing.

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 08.11.2019 at 8.00 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 08.11.2019 at 14.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The interview will be held on 08.11.2019 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.

Scientific coordinator: Prof.ssa Serena CATTARI

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

Title: Integrated use of the equivalent frame modelling of URM buildings with permanent monitoring data for the safety assessment to operational conditions.

Description: For the seismic assessment of existing URM buildings, the use of equivalent frame (EF) models is quite consolidated particularly for evaluating the nonlinear behavior. On the contrary, the studies addressed to evaluate their reliability in operational conditions and to test their use to exploit data from ambient vibration measurements or permanent monitoring are limited. Within this context, this project aims to deepen such issues: outlining the limits of applicability of the EF models; and, establishing standardized criteria for their use to obtain more reliable results on these specific fields. The research will address to the repercussions of some simplified hypotheses of EF models on the right simulation of the stiffness in pseudo-elastic phase and on the forces redistribution.

Scientific disciplinary sector: ICAR/09 TECNICA DELLE COSTRUZIONI

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

Required degree:

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; basics of structural monitoring. Previous experiences and skills in the equivalent frame modelling and finite element modelling of URM buildings and use of data from ambient measurement or permanent monitoring for the calibration of numerical modelling will be a preferential element of evaluation. Moreover, the ability to summarize and the effectiveness in illustrating basic concepts will be evaluated.
The assessment criteria for the qualifications and the interview will be affixed on 08.11.2019 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 08.11.2019 at 14.15 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The interview will be held on 08.11.2019 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: € 19.367,00

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)

Required degree:

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; basics of structural monitoring. Previous experiences and skills in the equivalent frame modelling and finite element modelling of URM buildings and use of data from ambient measurement or permanent monitoring for the calibration of numerical modelling will be a preferential element of evaluation. Moreover, the ability to summarize and the effectiveness in illustrating basic concepts will be evaluated.
RESEARCH PROGRAM NO. 32

The assessment criteria for the qualifications and the interview will be affixed on 28.10.2019 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 28.10.2019 at 12.00 in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

The interview will be held on 30.10.2019 at 9.00 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.

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 Pia Repetto via the email address repetto@dicca.unige.it or on the phone number +39 010 3352121

Responsabile scientifico: Prof.ssa Maria Pia REPETTO

NO. 1 research fellowship - Duration 2 years – Annual pre-tax amount: € 27.133,00

Title: Experimental study and structural monitoring of poles and towers subjected to thunderstorm wind

Description: According to the activities of Work Package 4 of the THUNDERR European Project, an experimental analysis of the storm-induced structural response is required, based on the full-scale measurement of real structures. DICCA is installing monitoring systems on different poles and towers very exposed to thunderstorm actions. The monitoring data will acquire structural acceleration, deflection and wind velocity simultaneously, at high resolution and continuously in time. These data will be post-processed to catalogue the thunderstorm events and then compared with analytical models results. Theoretical skills of wind engineering are required, as well as data analysis and programming capabilities in the Matlab environment.

Scientific disciplinary sector: ICAR/09 TECNICA DELLE COSTRUZIONI

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

Required degree: Dottorato di ricerca in Fisica, Ingegneria Civile e Ambientale o Ingegneria del vento


The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 33

The assessment criteria for the qualifications and the interview will be affixed on 07.11.2019 at 14.00 in Dipartimento Architettura e Design (DAD), 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 07.11.2019 at 17.00 in Dipartimento Architettura e Design (DAD), Stradone S. Agostino 37, Genova.

The interview will be held on 07.11.2019 at 17.15 in Dipartimento Architettura e Design (DAD), 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 Giovanna FRANCO

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

Title: Heritage and digital tools. Studies and research on built architecture for its knowledge, preservation and enhancement.

Description: Studies and researches on built architectural heritage analysis of history, materials, building techniques and state of conservation of exemplary buildings chosen as case studies. Individuation of historical and architectural values. Definition of problems linked to adaptation to safety norms and other new need as energy efficiency. Individuation of possible interventions for preservation and enhancement. Exploration on possible role of digital tools in renovation processes.

Scientific disciplinary sector: ICAR/12 TECNOLOGIA DELL'ARCHITETTURA

Place: Dipartimento Architettura e Design (DAD)

Required degree: Laurea V.O. in Architettura; Laurea Specialistica della classe 4/S Architettura e Ingegneria Edile; Laurea Magistrale della classe LM-4 Architettura e Ingegneria edile-Architettura.

Subjects of the interview: Technology and constructive analysis of traditional and contemporary buildings. Recovery of existing buildings and architectural and urban values. Analysis of diseases and disruptions of traditional and contemporary architecture. Methodological framework on renovation processes. Consolidation techniques. Digital culture and innovation in the architectural design process and role of ICT in renovating built heritage.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 34

The assessment criteria for the qualifications and the interview will be affixed on **06.11.2019 at 9.30** in Dipartimento Architettura e Design (DAD), 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 **06.11.2019 at 12.30** in Dipartimento Architettura e Design (DAD), Stradone S. Agostino 37, Genova.

The interview will be held on **06.11.2019 at 14.30** in Dipartimento Architettura e Design (DAD), 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. Andrea VIAN

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

**Title:** Creation of a centralized system for the definition, maintenance and distribution of web textual and visual content.

**Description:** Comparative study of large-scale, distributed and centralized web communication systems, analysis and systematization of existing software tools for media management of complex organizations and design of strategies for the federation of web content.

**Scientific disciplinary sector:** ICAR/13 DISEGNO INDUSTRIALE

**Place:** Dipartimento Architettura e Design (DAD)

**Required degree:**
Laurea Magistrale della classe LM-59 Comunicazione per l'impresa, i media e le organizzazioni complesse

**Subjects of the interview:**
Block based web editors, web content federation, content strategy for large federated web systems, copywriting for the web.

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 05.11.2019 at 8.30 in Dipartimento Architettura e Design (DAD), 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 05.11.2019 at 11.30 in Dipartimento Architettura e Design (DAD), Stradone S. Agostino 37, Genova.

The interview will be held on 05.11.2019 at 15.00 in Dipartimento Architettura e Design (DAD), 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 Rita VECCHIATTINI

NO. 2 research fellowships - Duration 1 year – Annual pre-tax amount: € 19,367,00

Title: The information system on the old town of Genoa for a preventive conservation plan.

Description: Rapid survey campaigns in order to update the conservation status of the Palazzi dei Rolli of the UNESCO site, those belonging to the perimeter of the site and those belonging to the buffer zone (old town of Genoa). Cross-reference of data collected in the field with those derived from the database of the Municipality (private building) and the Superintendency (authorizations) for statistical processing and identification of intervention methods adopted in the last 20 years. Drafting of reasoned lists of materials and recurring elements in buildings, preparatory to the drawing up of lists of companies / workers and materials available on the market in support of private and public owners.

Scientific disciplinary sector: ICAR/19 RESTAURO

Place: Dipartimento Architettura e Design (DAD)

Required degree:
Laurea Specialistica della classe 4/S Architettura e Ingegneria Edile.

Subjects of the interview:
Superficial and structural degradation of the historical built; Preventive and planned conservation; Information systems for cultural heritage.
The assessment criteria for the qualifications and the interview will be affixed on 29.10.2019 at 9.00 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 29.10.2019 at 12.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Montallegro 1, Genova.

The interview will be held on 29.10.2019 at 14.00 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. Stefano Gaggero on the phone number +39 010 3352389 or via the email address: stefano.gaggero@unige.it

Scientific coordinator: Prof. Stefano GAGGERO

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

Title: Analysis of Numerical tools for the prediction of the radiated noise by a marine propeller.

Description: The project plans to analyze the CFD techniques for the prediction of the acoustic behaviour of a propeller and the far-field propagation of the relative noise. The activity will be devoted to the analysis of the principal numerical methodologies, on one side, for the definition of the propeller as a noise source (RANS/LES/DES), on the other side, for the far-field noise propagation (see Ffowcs Williams and Hawkings). The project will also focus on the re-design by optimization techniques of a propeller considering also its acoustic impact. All these activities will be validated through an experimental campaign developed at the department laboratories. The activities fall within the EU project LIFE-PIAQUS.

Scientific disciplinary sector: ING-IND/01 ARCHITETTURA NAVAL

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:

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 08.11.2019 at 8.30 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 08.11.2019 at 12.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Montallegro 1, Genova.

The interview will be held on 08.11.2019 at 14.00 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. Michele Viviani on the phone number +39 320 4248046 or via the e-mail all’indirizzo: michele.viviani@unige.it

Scientific coordinator: Prof. Michele VIVIANI

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

Title: Development of control logics for autonomous navigation.

Description: The project plans to develop knowledge related to the "autonomous ship" concept. In particular, attention will be devoted to the development of some enabling technologies for this concept, with particular attention to the control logics in navigation (ability to navigate in congested areas independently, also considering port operations) and to the station keeping capabilities (DP). To this end it is initially planned to develop these logics in a simulation environment (Matlab-Simulink), and then to test them with Hardware in the Loop techniques; by using real controller and/or a ship model scale already available at DITEN, which will be further developed, with the necessary additional components to test the control logics by means of a dedicated experimental campaign.

Scientific disciplinary sector: ING-IND/01 ARCHITETTURA NAVALE

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.


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 23.10.2019 at 8.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), 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 23.10.2019 at 11.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Via Montallegro 1, Genova.

The interview will be held on 23.10.2019 at 12.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), 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. Alberto Traverso on the phone number +39 010 3352442 or via the e-mail all’indirizzo: alberto.traverso@unige.it

Scientific coordinator: Prof. Alberto TRAVERSO

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

Title: Experimental Analysis of emulator rig for combined cycles based on microgasturbine.

Description: Within the European PUMP-HEAT project, the present activity concerns the development of an experimental system "emulator" of innovative combined cycles, by installing a gas microturbine coupled with heat pump and cold thermal storage. The experimental plant is aimed at experimenting in "hardware in the loop" configuration the "power oriented" layout studied by the PUMP-HEAT project, in order to validate in the laboratory environment the increase in operational flexibility with respect to conventional solutions. The research activity will therefore support the realization of this experimental plant and will subsequently concentrate on the analysis of the experimental data obtained, using appropriate software for the simulation of energy systems.

Scientific disciplinary sector: ING-IND/09 SISTEMI PER L’ENERGIA E L’AMBIENTE

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

Required degree: Laurea V.O. in Ingegneria Meccanica; Laurea Specialistica della classe 36/S Ingegneria meccanica; Laurea Magistrale della classe LM-33 Ingegneria meccanica

Subjects of the interview: Energy systems, power plants, thermal energy storage, performance optimisation, ambient condition impact on performance.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 39

The assessment criteria for the qualifications and the interview will be affixed on 31.10.2019 at 11.00 presso il Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME) - Sezione TEC, Via Opera Pia 15a, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 31.10.2019 at 14.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME) - Sezione TEC, Via Opera Pia 15a, Genova.

The interview will be held on 31.10.2019 at 14.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME) - Sezione TEC, Via Opera Pia 15a, 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 FOSSA

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

Title: Building energy modelling and experimentation applied to greenhouses and innovative buildings for the renewable energy exploitation.

Description: The project is related to modelling and simulation of thermal systems like buildings, thermal storage units, glass buildings as traditional and innovative greenhouses. Modelling is performed in Energy Plus, Open Studio and Matlab Environments. The research is related to the integration of the renewable energy technologies and it will include an experimental activity devoted to measurements of the main thermo-physical parameters in thermal systems, buildings and greenhouses.

Scientific disciplinary sector: ING-IND/10 FISICA TECNICA INDUSTRIALE

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

Required degree: Laurea magistrale della classe LM-4 Architettura e Ingegneria Edile-Architettura

Subjects of the interview:
EnergyPlus software modelling, Open Studio Modelling, Energy analysis of single buildings and urban areas, photovoltaic conversion, greenhouse systems, solar radiation, lighting control, thermohygrometric control.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 40

The assessment criteria for the qualifications and the interview will be affixed on 07.11.2019 at 9.00 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 07.11.2019 at 12.00 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 07.11.2019 at 15.00 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.

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. Corrado Schenone on the phone number +39 010 3352572 or via the email address: corrado.schenone@unige.it

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:

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. 41

The assessment criteria for the qualifications and the interview will be affixed on 20.11.2019 at 8.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), 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 20.11.2019 at 11.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Via All’Opera Pia 15/A, Genova.

The interview will be held on 20.11.2019 at 12.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), 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.

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. Matteo Zoppi on the phone number +39 3204382160 or via the email address: zoppi@dimec.unige.it

Scientific coordinator: Prof. Matteo ZOPPI

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

Title: Mechanism architectures and design of a cooperative robotic gripper for the preparation to assembly and assembly of car windshields.

Description: The research work is within the EU project Collaborate. The researcher will contribute to the design of a cooperative robotic gripper that will serve to grasp windshields from racks, will present the windshield to an operator for the assembly of components and will finally position the windshield on the car chassis. The gripper will have tactile sensing and will be partly reconfigurable to adapt to the different phases of its work cycle.

Scientific disciplinary sector: ING-IND/13 MECCANICA APPLICATA ALLE MACCHINE

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


Subjects of the interview: Design of robotic grippers, manufacturing, tensegrity in mechanisms.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 42

The assessment criteria for the qualifications and the interview will be affixed on 04.11.2019 at 9.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME) - MEC, 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 04.11.2019 at 13.30 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME) - MEC, Via All’Opera Pia 15/A, Genova.

The interview will be held on 04.11.2019 at 14.00 in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME) - MEC, 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.

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 Berselli via the email address: giovanni.berselli@unige.it

Scientific coordinator: Prof. Giovanni BERSELLI

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

Title: Advanced methods for designing compliant components to be applied in low-cost orthosis.

Description: The project aim is the development of shoulder and knee orthosis, based on the use of highly-flexible parts (i.e. compliant shells). The activity entails the use of advanced CAD tool for mechanical design along with use of CAE tools (FEM + MBD) for analysing structures and compliant mechanisms in presence of geometric and material non-linearity.

Scientific disciplinary sector: ING-IND/15 DISEGNO E METODI DELL'INGEGNERIA INDUSTRIALE

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:
Mechanical design of plastic components and Design for Additive Manufacturing. Techniques for the analysis and synthesis of compliant structures and mechanisms.

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 **05.11.2019** at **9.00** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Opera Pia 15a, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **05.11.2019** at **12.00** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Opera Pia 15a, Genova.

The interview will be held on **05.11.2019** at **12.30** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Opera Pia 15a, 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 Elisabetta ARATO

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

**Title:** Analysis and monitoring of environmental impact of LIFE LIBERNITRATE project.

**Description:** The research activity will focus on the analysis of the environmental impact of the LIFE LIBERNITRATE project by comparing the initial situation before the project starts with the situation after a 2/3 year period of project implementation. During the activity, the significant environmental aspects of the entire project must be identified and monitored. The research foresees, starting from the identified environmental aspects, a Life Cycle Assessment of the project. The goal will be the possibility to promote the replicability of the project at national and European level, also boasting environmental sustainability.

**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 Fluidodinamica e Processi dell'Ingegneria Ambientale.

**Subjects of the interview:**
Life Cycle Assessment, process analysis simulation, chemical thermodynamics and kinetics.

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 04.11.2019 at 9.00 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 04.11.2019 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 04.11.2019 at 14.00 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.

Scientific coordinator: Prof. Francesco GUASTAVINO

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

Title: Predictive diagnostics of the electrical system in low and medium voltage on board the ship.

Description: The research activity foresees the study of a predictive diagnostic system, based on the measurement of partial discharges, which is able to indicate which electrical insulation, of a machine or electrical component, on board a ship, is near the breakdown. First the status of the medium and low voltage cables will be monitored: a measurement system will be studied and developed that allows the use of the same power cables to send alarm signals to the control center; due to the partitioning of the ship's premises, it is in fact impossible to use sensors that communicate with a control unit via wireless signals.

Scientific disciplinary sector: ING-IND/32 CONVERTITORI, MACCHINE E AZIONAMENTI ELETTRICI

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

Required degree: Laura magistrale della classe LM-28 Ingegneria elettrica.

Subjects of the interview: Properties of electrical insulating materials, Measurement techniques of low and high frequency partial discharges, Sizing and characterization of sensors for the partial discharge measurement such as High Frequency Current Transformer (HFCT).
The assessment criteria for the qualifications and the interview will be affixed on 28.10.2019 at 10.30 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 28.10.2019 at 13.30 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 11a, Genova.

The interview will be held on 28.10.2019 at 14.00 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.

Scientific coordinator: Prof. Paolo GASTALDO

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

Title: Low-power embedded systems for advanced video analysis.

Description: The research activity aims at developing novel solutions in the area of intelligent electronic systems for image and video processing. The focus is on methodologies that should be able to extract high level information from the combined analysis of image/videos and related text sources. The main idea is to take advantage of deep learning technologies in the development of a framework that should properly address the problem at hand while running on low-power electronic embedded systems. Accordingly, the goal is to propose novel solutions that may deal with the hard constraints imposed by embedded systems in terms of computational costs and resources.

Scientific disciplinary sector: ING-INF/01 ELETTRONICA

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

Required degree: Dottorato di Ricerca in Ingegneria Elettronica.

Subjects of the interview: Embedded systems; machine learning; deep learning; video processing; text mining.
The assessment criteria for the qualifications and the interview will be affixed on 28.10.2019 at 10.00 in Laboratorio DSP, 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 28.10.2019 at 14.00 in Laboratorio DSP, Via Opera Pia 13, Genova.

The interview will be held on 28.10.2019 at 15.00 in Laboratorio DSP, 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. 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.
The assessment criteria for the qualifications and the interview will be affixed on 28.10.2019 at 8.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 11, piano terreno, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.10.2019 at 11.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 11, piano terreno, Genova.

The interview will be held on 28.10.2019 at 11.10 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), ufficio Prof. A. Trucco, Via Opera Pia 11, primo 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. Andrea Trucco on the phone number +39 010 3352253 or via the email address: andrea.trucco@unige.it

Scientific coordinator: Prof. Andrea TRUCCO

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

Title: Processing and classification of underwater acoustic signals gathered in Antarctica.

Description: A new underwater acoustic device will be submerged in the protected marine area of the Ross Sea, Antarctica, and left in water for a year in order to monitor environmental noise in all its components: physical (ice, wind), biological (mammals, birds) and anthropogenic. The first aim of the research grant is to develop the algorithms for processing the signals acquired in passive mode, in order to detect the presence of signals of interest and classify, through machine learning techniques, the sources that contribute to the generation of underwater noise. A further aim is to estimate, by statistical regression techniques applied to the signals acquired in active mode, the density of zooplankton and small fish in relation to their vertical migration.

Scientific disciplinary sector: ING-INF/03 TELECOMUNICAZIONI

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


The assessment criteria for the qualifications and the interview will be affixed on 31.10.2019 at 10.30 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 31.10.2019 at 14.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 13, Genova.

The interview will be held on 31.10.2019 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.

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. Giorgio Cannata on the phone number +39 0103532223 or via the email address: giorgio.cannata@unige.it

Scientific coordinator: Prof. Giorgio CANNATA

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

Finanziamento: Progetto “UE H2020 NMBR-FOF-2018 CoLLaboratE”

Title: Study and implementation of "touch based" control methods for robots


Scientific disciplinary sector: ING-INF/04 AUTOMATICA

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

Required degree:

Subjects of the interview:
Tactile sensor technologies for robots. Sensor based robot control systems.

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 31.10.2019 at 9.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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 31.10.2019 at 12.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 11a, Genova.

The interview will be held on 31.10.2019 at 14.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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.

Scientific coordinator: Prof. Davide ANGUITA

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

Title: Study and application of Predictive Analytics techniques to the Smart Manufacturing domain.

Description The objective of this study is to apply state-of-the-art predictive models coming from the data-analysis and data mining field to the smart manufacturing field. In particular the project goal is to build a predictive maintenance tool for a machine (the foaming machine) in a refrigerator assembly line.

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

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


Subjects of the interview: Data Analysis and Data Mining

The candidate will need to prove his/her knowledge of the English language.
RESEARCH PROGRAM NO. 50

The assessment criteria for the qualifications and the interview will be affixed on 30.10.2019 at 9.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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 30.10.2019 at 12.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 11a, Genova.

The interview will be held on 30.10.2019 at 14.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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.

Scientific coordinator: Prof. Davide ANGUITA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23,250,00

Title: Study and application of Predictive Analytics techniques to the Smart Monitoring Domain

Description: The objective of this study is to apply state-of-the art predictive models coming from the data-analysis and data mining field to the smart monitoring field. In particular the project goal is to build a predictive monitoring tool for an automata system in order to make the automata proactive and not just reactive.

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

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


Subjects of the interview: Data Analysis and Data Mining

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 51

The assessment criteria for the qualifications and the interview will be affixed on 29.10.2019 at 9.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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 29.10.2019 at 12.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 11a, Genova.

The interview will be held on 29.10.2019 at 14.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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.

Scientific coordinator: Prof. Antonio CAMURRI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23,250,00

Finanziamento: Progetto “UE H2020 FET PROACTIVE EnTimeMent”

Title: Multiscale Neural Networks for Human Movement Understanding

Description: The purpose of this project is to investigate how machine learning techniques can be used for handling time-scales in human actions for predicting and classifying different events. For this purpose in the project the architectures most suitable for these tasks, e.g. recurrent neural networks, will be studied. In particular, the activities will be in the framework of the workpackages WP3,4, and 5 of the EnTimeMent project and related datasets, in collaboration with project's partners.

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

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


Subjects of the interview:
Data Analysis and Data Mining

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 28.10.2019 at 8.00 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 28.10.2019 at 11.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 13, Genova.

The interview will be held on 28.10.2019 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.

Scientific coordinator: Prof. Fulvio MASTROGIOVANNI

NO. 1 research fellowship - Duration 2 years – Annual pre-tax amount: € 23.250,00

Finanziamento: Progetto “UE Crist-Era 2017 InDex”

Title: Extraction of multi-modal data related to manipulation actions using human demonstrations

Description: This work will be carried out in the context of the European CHIST-ERA project. It will deal with the extraction of manipulation data starting from human-led examples. The work to be done will include: the specifications of the physical environment (workspace, sensor locations), the scenarios (use cases, the set of activities and the actions), the requirements for data collection (recording system, log format, number and duration of each session), as well as the annotation protocols. The behaviour of volunteers in dexterous manipulation tasks will be observed and recorded. The activity will contribute to the creation of models useful for the generation of canonical motion primitives (for the arm, the hand, the fingers), and the in-hand object pose transition using tactile data.

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 della classe LM-32 Ingegneria informatica.

Subjects of the interview:
Analysis of inertial data, machine learning, gesture analysis.

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 29.10.2019 at 8.00 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 29.10.2019 at 11.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 13, Genova.

The interview will be held on 29.10.2019 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. Fulvio Mastrogiovanni on the phone number +39 3934411179 or via the email address: fulvio.mastrogiovanni@unige.it

Scientific coordinator: Prof. Fulvio MASTROGIOVANNI

NO. 1 research fellowship - Duration 2 years – Annual pre-tax amount: € 23,250,00

Finanziamento: Progetto “UE Crist-Era 2017 InDex”

Title: Creation of robot manipulation models using multi-modal data obtained by human demonstrations

Description: This work will be carried out in the context of the European CHIST-ERA project. The goal will be to create a rich representation of objects in terms of geometric and semantic features, which will depend on how such objects must be used in order to execute a certain manipulation task. A simple geometrical representation will be augmented with properties related to their usage to maximize the likelihood of successful grasping and manipulation. The work will require learning the most relevant object features as well as the effects of manipulation actions and forces acting on them, including physical forces.

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 della classe LM-32 Ingegneria informatica.

Subjects of the interview: Object perception, knowledge representation, machine learning.

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 30.10.2019 at 8.00 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 30.10.2019 at 11.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Opera Pia 13, Genova.

The interview will be held on 30.10.2019 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. Fulvio Mastrogiovanni on the phone number +39 3934411179 or via the email address: fulvio.mastrogiovanni@unige.it

Scientific coordinator: Prof. Fulvio MASTROGIOVANNI

NO. 1 research fellowship - Duration 2 years – Annual pre-tax amount: € 23.250,00

Finanziamento: Progetto “UE Crist-Era 2017 InDex”

Title: Design and development of architectures and solutions for the speech-based human-robot interaction in smart environments

Description: The work to be done is related to human-robot interaction in smart environments using the speech-based technologies. It is part of a joint research activity carried out together with the startup company Teseo srl, which deals with smart environments and solutions for ambient assisted living. The work will require the definition of a series of use cases related to the assistance of elderly and people with special needs where a speech-based interaction is relevant, their implementation in a cloud-based software architecture, also using technologies developed by the company, and its test in real-world environments.

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 della classe LM-32 Ingegneria informatica.

Subjects of the interview:
Software architectures for robots, knowledge representation, machine learning.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 55

The assessment criteria for the qualifications and the interview will be affixed on 28.10.2019 at 9.30 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Viale Causa 13, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.10.2019 at 14.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Viale Causa 13, Genova.

The interview will be held on 28.10.2019 at 15.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Viale Causa 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. Armando TACCHELLA

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

Finanziamento: Progetto “UE H2020 RobMoSys SCOPE”

Title: Model-based programming and property verification in robotic systems

Description: The objective is to solve the problem of modeling, simulating, verifying and monitoring of robotic systems. The focus is on methodologies to verify in a (semi)automated way project requirements during design, implementation and testing phases. The approach is based on a mathematical framework to model systems and to verify their correct behavior based on an automated analysis of the models. Automating modellling will be considered, for instance by extracting models from existing designs or implementations. Automated code synthesis from specifications or high-level models will be also considered, so that implementation is guaranteed to be compliant with the original 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:

Subjects of the interview:
Modeling of Robotic Systems; difference between simulation and verification; current state of the art in modeling and simulation of robotic systems; techniques for monitoring large-scale robotic systems; engineering for verification in robotic systems.
The assessment criteria for the qualifications and the interview will be affixed on 04.11.2019 at 18.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Viale Causa 13, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 05.11.2019 at 15.30 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Viale Causa 13, Genova.

The interview will be held on 05.11.2019 at 17.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Viale Causa 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. Gualtiero VOLPE

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

Title: Multimodal interactive systems to support learning of mathematics and science

Description: This research activity will concern the concept and validation of multimodal interactive systems capable of capturing and analyzing user’s nonverbal behavior in real-time. The aim is to support learning of foundational concepts of arithmetic, geometry, and natural sciences. In particular, the system will analyze body posture and movement and their expressive qualities and will produce audiovisual feedback. Target users will be children in the final year of primary school and/or in the first year of secondary school. The work will be partially carried out in the framework of the “Dimensione LUDA” project, funded by Impresa Sociale con i Bambini, and may encompass the design and validation of specific prototypical applications.

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 della classe LM-55 Scienze cognitive.

Subjects of the interview:
Multimodal interactive systems for educations; techniques for real-time capturing and analysing posture, movement, gesture, and their expressive qualities; techniques for real-time generation of audiovisual stimuli; tools for developing multimodal interactive system and prototypical applications; techniques for assessing and evaluating multimodal interactive systems.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 57

The assessment criteria for the qualifications and the interview will be affixed on 08.11.2019 at 9.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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 08.11.2019 at 12.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via all'Opera Pia 13, Genova.

The interview will be held on 08.11.2019 at 12.30 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), 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.

Scientific coordinator: Prof. Vittorio SANGUINETI

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

Title: Interdependence between perception and action

Description: The general objective of this research is to investigate the interaction between action and perception, from the functional (movement and perception), neural (EEG correlated) and computational points of view (models based on excellent estimation and control). Using an experimental apparatus that integrates vision and haptics, a series of experiments will be carried out in which the motor consequences of the manipulation of perceptive channels (vision, proprioception) and the perceptive consequences of motor adaptation will be studied. The applicability of these adaptation mechanisms in the context of motor, sensory and cognitive rehabilitation will also be explored.

Scientific disciplinary sector: ING-INF/06 BIOINGEGNERIA ELETTRONICA E INFORMATICA

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

Required degree: Laurea V.O. in Ingegneria Biomedica; Laurea Specialistica della classe 26/S Ingegneria Biomedica; Laurea Magistrale della classe LM 21 Ingegneria Biomedica


The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 58

The assessment criteria for the qualifications and the interview will be affixed on 28.10.2019 at 9.00 in Dipartimento di Lingue e Culture Moderne, Piazza Santa Sabina 2, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.10.2019 at 15.00 in Dipartimento di Lingue e Culture Moderne, Piazza Santa Sabina 2, Genova.

The interview will be held on 29.10.2019 on at 9.00 in Dipartimento di Lingue e Culture Moderne, Piazza Santa Sabina 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.ssa Micaela Rossi on the phone number +39 010 20951604 or via the email address: micaela.rossi@unige.it

Scientific coordinator: Prof.ssa Micaela ROSSI

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

Title: Metaphor and conflict: beyond the cognitive approach.

Description: In accordance with the objectives of the PRIN 2015 research project (“New research perspectives on metaphors”), this research project aims to propose a widely accessible synthesis of recent theoretical approaches to metaphors studies, outlining an overview which takes its inspiration from cognitive metaphor theory (CMT) but also includes more recent and complementary approaches (Starting from Prandi, 2017). The aim of the research is also to summarize approaches from different linguistic areas, in particular to offer Italian researchers access to texts not yet available in Italian, thus implementing the PRIN project platform and the activities of the related inter-university research center on metaphors (CIRM).

Scientific disciplinary sector: L-LIN/04 LINGUA E TRADUZIONE - LINGUA FRANCESE

Place: Dipartimento di Lingue e Culture Moderne

Required degree: Dottorato di ricerca in Digital Humanities oppure in Lingue e Culture e Tecnologie dell'informazione e della comunicazione.

Subjects of the interview: Metaphor theory, CMT, deliberate metaphor theory, metaphor and conceptual conflict.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 59

The assessment criteria for the qualifications and the interview will be affixed on 28.10.2019 at 9.00 in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Via Balbi 6 III piano, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.10.2019 at 12.00 in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Via Balbi 6 III piano, Genova.

The interview will be held 28.10.2019 at 14.00 in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Via Balbi 6 III Piano – aula seminari, 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 LO BASSO

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

Title: Genoa is a cosmopolitan city. Exchanges, cultures and citizenship in the shadow of the Lantern between the seventeenth and eighteenth centuries.

Description: The research grant is finalized to the study of the Jewish presence in Genoa in the period between the freeport edict of 1654 and that of 1751, both followed by specific chapters dedicated to the Jewish nation in 1658 and 1752. Through a comparative approach that takes into consideration both the Jewish communities of the main Tyrrenian ports competing with Genoa, Leghorn and Nice, and those of the neighbouring internal areas such as the Monferrato, the aim of the research is to analyse the Genoese community from the point of view of the integration into the urban fabric and the relations with both the local society and the ecclesiastical authorities, and to place its leading exponents in the context of global parental and commercial networks, typical of the Jewish diaspora.

Scientific disciplinary sector: M-STO/02 STORIA MODERNA

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

Required degree: Dottorato di ricerca in Studio e valorizzazione del patrimonio storico, artistico-architettonico e ambientale, curriculum storia o Dottorato in Storia.

Subjects of the interview:
History of the Republic of Genoa, with particular reference to institutional and social history; history of the Jewish diaspora in the modern age; history of commerce and finance in the modern age.
RESEARCH PROGRAM NO. 60

The assessment criteria for the qualifications and the interview will be affixed on 29.10.2019 at 13.00 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 06.11.2019 at 10.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Andrea Podestà 2, Genova.

The interview will be held on 07.11.2019 at 10.00 in Dipartimento di Scienze della Formazione (DISFOR), 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.

Scientific coordinator: Prof. Franco BOCHICCHIO

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

Title: Educational values of the enogastronomic tourist experience. Analysis and redesign of the Ligurian tourist offer.

Description: The main strength of Italian tourism is represented by the cultural dimension, where the enogastronomic sector, in addition to enriching the already considerable artistic heritage and landscape, makes our country one of the most popular destinations for tourists from around the world. The aim of the research is to analyse and redesign the Ligurian enogastronomic tourism offer from an educational point of view, where the presence of a pedagogical intentionality configures the experience as a learning event that strengthens the identity of the tourist and the territory.

Scientific disciplinary sector: M-PED/03 DIDATTICA E PEDAGOGIA SPECIALE

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:

Subjects of the interview:
The interview will aim to ascertain the candidate's possession of adequate linguistic skills necessary to investigate the international theoretical framework concerning the theme of research, and knowledge of the international pedagogical vocabulary relating to the constructs concerned, educational technologies.
RESEARCH PROGRAM NO. 61

The assessment criteria for the qualifications and the interview will be affixed on 28.10.2019 at 15.00 in Dipartimento di Scienze della formazione (DISFOR), Stanza 3c3, Laboratory of Language and Social Cognition, Corso 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 28.10.2019 at 18.00 in Dipartimento di Scienze della formazione (DISFOR), Stanza 3c3, Laboratory of Language and Social Cognition, Corso Podestà 2, Genova

The interview will be held on 29.10.2019 at 16.30 in Dipartimento di Scienze della formazione (DISFOR), Stanza 3c3, Laboratory of Language and Social Cognition, Corso 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.

Scientific coordinator: Prof. Luca ANDRIGHETTO

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

Title: Cognitive anthropomorphism and social robots.

Description: The research fellow will be involved in a research project conducted in collaboration with the Cognitive Robotics and Interaction Lab –Istituto Italiano di Tecnologia. Her/his work will focus on the execution of two experimental works based on cognitive paradigms commonly used in sexual objectification research and aimed at investigating the cognitive anthropomorphism of social robots.

The ideal candidate should have the following:

a) Knowledge about paradigms that investigate the cognitive processing of social and nonsocial stimuli
b) Knowledge about the social psychological literature on (de)humanization
c) Lab software programming skills (e.g., PsychoPy, E-Prime, Presentation)
d) Knowledge about statistical models (i.e., linear and mixed models) and skills in using statistical software (R, Jamovi or SPSS).

Scientific disciplinary sector: M-PSI/05 PSICOLOGIA SOCIALE

Place: Dipartimento di Scienze della formazione (DISFOR)

Required degree:

Subjects of the interview:
The interview will focus on the specific skills of the candidate and on the adequacy of his/her profile with respect to the activity required by the research project. The candidate will be evaluated in particular with respect to her/his methodological skills and her/his knowledge of the literature taken into account in the research project.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 62

The assessment criteria for the qualifications and the interview will be affixed on 29.10.2019 at 10.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole 3A canc, 5° Piano Torre Ovest, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 29.10.2019 at 13.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole 3A canc, 5° Piano Torre Ovest, Genova.

The interview will be held on 29.10.2019 at 15.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole 3A canc, 5° Piano Torre Ovest, 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: Evaluation of public policies through the use of CPT data.

Description: Through the use of different dataset, among which first of all the territorial public accounts (CPT), this research project is intended to first represent quantitatively the dynamics of public investments in recent years by government levels (State, Regions, municipalities). Moreover, we intend to analyze with econometric models the determinants that contribute to explaining the dynamics of public investments for the different levels of government and the different territorial areas of the country.

Scientific disciplinary sector: SECS-P/03 SCIENZA DELLE FINANZE

Place: Dipartimento di Scienze Politiche (DISPO)

Required degree:

Subjects of the interview:
Public economics; econometrics.

The candidate will need to prove his/her knowledge of the english language.
RESEARCH PROGRAM NO. 63

The assessment criteria for the qualifications and the interview will be affixed on 28.10.2019 at 10.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole 3A canc, 5° Piano Torre Ovest, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.10.2019 at 13.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole 3A canc, 5° Piano Torre Ovest, Genova.

The interview will be held on 28.10.2019 at 15.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole 3A canc, 5° Piano Torre Ovest, 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: Impact analysis of public policies through the use of CPT data.

Description: The aim of the research project is to investigate the level of redistribution and risk sharing between regional Italian territories; in particular, the objective is to calculate the regional tax residues and the degree of interregional redistribution of the public sector, explicitly taking into account the role and impact of the individual fiscal instruments (both for revenues and expenditures). The analysis will be based, with appropriate corrections, on the data of the Regional Public Accounts (CPT), which provide a breakdown of revenue and expenditure at the regional level.

Scientific disciplinary sector: SECS-P/03 SCIENZA DELLE FINANZE

Place: Dipartimento di Scienze Politiche (DISPO)

Required degree:

Subjects of the interview:
Public economics; econometrics.

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 30.10.2019 at 10.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole 3A canc, 5° Piano Torre Ovest, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 30.10.2019 at 13.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole 3A canc, 5° Piano Torre Ovest, Genova.

The interview will be held on 30.10.2019 at 15.00 in Dipartimento di Scienze Politiche (DISPO), P.le E. Brignole 3A canc, 5° Piano Torre Ovest, 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: Socio-economic impact of research investments.

Description: The expected activities from the grant are to deepen the theme of the socio-economic impact of investment in science and technology by developing three main lines of research: Measurement of the input-output-outcome relationship of Research and Development; Evolution of collaborative networks of researchers; Social and environmental effects of research and development. After a theoretical analysis on the fundamentals of the theme (economic and social role of research and development, metrics of scientific production, methods of collaboration between groups of researchers and social effects of research projects), the grant provides for the implementation of empirical analyses having as case study the Italian Institute of Technology, co-funder of the research grant.

Scientific disciplinary sector: SECS-P/03 SCIENZA DELLE FINANZE

Place: Dipartimento di Scienze Politiche (DISPO)

Required degree:
Laurea V.O. in Economia e Commercio; Laurea Specialistica delle classi 84/S Scienze economico-aziendali, 64/S Scienze dell’economia; Laurea Magistrale delle classi LM-77 Scienze economico-aziendali, LM-56 Scienze dell’economia.

Subjects of the interview:
R&D investment; social benefits; public policies.

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