

SCIENTIFIC DISCIPLINARY AREA: MATHEMATICS AND INFORMATICS
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**RESEARCH PROGRAM NO. 1**

**The assessment criteria for the qualifications and the interview will be affixed on 5.3.2018 at 10.00** 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 5.3.2018 at 13.00** in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Dodecaneso 35, Genova.

**The interview will be held on 5.3.2018 at 14.00** 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. Nicoletta Noceti on the phone number +39 0103536626 or via the email address: nicoletta.noceti@unige.it.*

**Scientific coordinator:** Prof. Nicoletta NOCETI

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

**Title:** DIONISO - Wearable vision systems for Search&Rescue scenarios.

**Description:** The project focuses on the use of intelligent systems in Search&Rescue scenarios, to favor the research phase with the automatic creation of maps of the scene from data acquired with wearable devices provided to rescue personnel.

In particular, goals of the project will be the study, development, and validation of Computer Vision algorithms to: automatically detect adaptive scene landmarks from image sequences; learn temporal models of the observed scene; accurately reconstruct scene maps based on integrating SLAM techniques and the temporal models.

**Scientific disciplinary sector:** INF/01 INFORMATICA

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

**Required degree:**

Laurea Specialistica delle classi: 23/S Informatica, o 29/S Ingegneria dell'automazione, o 35/S Ingegneria informatica.

Laurea Magistrale delle classi: LM-18 Informatica, o LM-25 Ingegneria dell'automazione, o LM-32 Ingegneria informatica, o LM-66 Sicurezza informatica.

**Subjects of the interview:**

- Deep understanding of methods and techniques of Computer Vision for image and 3D scene representation.
- Principles of Machine Learning applied to Computer Vision.

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

## RESEARCH PROGRAM NO. 2

**The assessment criteria for the qualifications and the interview will be affixed** on 28.2.2018 at 10.00 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 28.2.2018 at 13.00 in Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Via Dodecaneso 35, Genova.

**The interview will be held** on 1.3.2018 at 14.00 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. Nicoletta Noceti on the phone number +39 0103536626 or via the email address: [nicoletta.noceti@unige.it](mailto:nicoletta.noceti@unige.it).*

**Scientific coordinator:** Prof. Nicoletta NOCETI

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

**Title:** Development and validation of Machine Learning methods for financial and insurance services.

**Description:** The goal of the project is the study, the development, and the validation of methods combining Machine Learning and High-Performance Computing in the context of bank and insurance applications. Particular attention will be posed to learn models from temporal, heterogeneous and high-dimensional data, and for the definition of intelligent, personalized, and multi-channel services.

The setting and the technologies adopted will refer to tools typical of the Big Data world (e.g. Hadoop and Apache Spark).

The activity will be carried out in strong synergy with a multinational company leader in the fields.

**Scientific disciplinary sector:** INF/01 INFORMATICA

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

**Required degree:**

Laurea V.O. in Informatica.

Laurea Specialistica della classe 23/S Informatica.

Laurea Magistrale delle classi: LM-18 Informatica, o LM-66 Sicurezza informatica.

**Subjects of the interview:**

- Principles of supervised and unsupervised Machine Learning.
- Data processing and analysis.
- Big data technologies.

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 2.3.2018 at 10.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 2.3.2018 at 15.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

**The interview will be held on 2.3.2018 at 16.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

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

**Scientific coordinator:** Prof. Roberta CARDINALE

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

**Title:** Development, calibration and commissioning of the Ring Imaging Cherenkov detector of the LHCb experiment at CERN for future upgrades.

**Description:** The LHCb experiment at CERN is dedicated to precise measurements of CP asymmetry and to the study of rare decays of hadrons with a heavy quark in order to search for phenomena beyond the Standard Model of particles.

The experiment is undergoing an upgrade phase in order to improve its performance and to be able to increase its sensitivity to the measurements foreseen in its wide physics program. One of the key element of the LHCb detector are the two Ring Imaging Cherenkov detectors, where Genova group is involved, which are able to identify charged hadrons. These detectors require an improvement in the optical layout, photodetectors and read-out electronics to satisfy the requirements for the upgrade phase.

**Scientific disciplinary sector:** FIS/01 FISICA SPERIMENTALE

**Place:** Dipartimento di Fisica (DIFI)

**Required degree:**

Laurea Specialistica della classe 20/S Fisica.

Laurea Magistrale della classe LM-17 Fisica.

**Subjects of the interview:**

- Cherenkov detectors.
- LHCb detector upgrade.
- Heavy quark physics.

## **RESEARCH PROGRAM NO. 4**

**Scientific coordinator:** Prof. Flavio GATTI

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

**Title:** Cryogenic Anticoincidence for the X-ray space telescope ATHENA.

**Description:** The space telescope project for X-ray astrophysics, ATHENA, of the European Space Agency requires a detector that rejects cosmic rays in orbit around the lagrangian point L2 to reduce the background by 2 orders of magnitude at least. The detector is made with micromachining and thin film growth techniques. The prototypes are tested at 50 mK in dilution fridges with quantum interference electronics (SQUID). The goal of the study of this position concerns the simulation of the signal by studying the a-thermal phonons transport of and their interactions in the metal films of the sensors. The results will be verified with appropriate measurements for estimating the experimental parameters of the physical processes involved.

**Scientific disciplinary sector:** FIS/01 FISICA SPERIMENTALE

**Place:** Dipartimento di Fisica (DIFI)

**Required degree:**

Laurea Magistrale della classe LM-17 Fisica.

**Subjects of the interview:**

- X-ray Astrophysics telescopes.
- Cryogenic detectors for cosmic origin x-rays and particles.
- Physics of solids at low temperatures.

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 2.3.2018 at 10.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 2.3.2018 at 15.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

**The interview will be held on 2.3.2018 at 16.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

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

**Scientific coordinator:** Prof. Alessandro PETROLINI

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

**Title:** Development and characterization of single-photon optical sensors, fast, pixelized and for large areas.

**Description:** In all fields of physics and in many sectors of technology, the demand for very high sensitivity photon detectors (up to the single photon), in large sectors of the electromagnetic spectrum, has increased greatly, to perform fundamental measurements of unparalleled accuracy, for particle detectors, for applications (for example to communications and to medicine). The aim of the research program is to pursue the development of detectors of this type with particular reference, but not limited to, detectors for the next generation of experiments at CERN's LHC.

**Scientific disciplinary sector:** FIS/01 FISICA SPERIMENTALE

**Place:** Dipartimento di Fisica (DIFI)

**Required degree:**

Laurea Magistrale della classe LM-17 Fisica.

**Subjects of the interview:**

- Particle detectors.

## **RESEARCH PROGRAM NO. 6**

**The assessment criteria for the qualifications and the interview will be affixed on 27.2.2018 at 12.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.2.2018 at 18.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

**The interview will be held on 28.2.2018 at 14.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

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**Scientific coordinator:** Prof. Nicola MAGGIORE

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

**Title:** Study of quasars for gravitational lenses and ultra-high energy particle emission.

**Description:** The research grant, promoted by DIFI within the activities of the interdepartmental center for astronomy ORSA of which DIFI is the leader, foresees theoretical studies on the modeling of the phenomenon of multiple images of quasars under gravitational lens effect, in particular to the purpose of determining the Hubble constant, and furthermore phenomenological studies on the emission of ultra-high energy particles in the jets emitted by the central region of those objects. Part of the work will also include experimental measurements on quasars with the optical telescope of the Antola Reserve, an instrument of great interest for scientific research, used by DIFI and ORSA also for outreach and teaching at university level.

**Scientific disciplinary sector:** FIS/02 FISICA TEORICA, MODELLI E METODI MATEMATICI

**Place:** Dipartimento di Fisica (DIFI)

**Required degree:**

Laurea Magistrale della classe LM-17 Fisica.

**Subjects of the interview:**

- Verification of the knowledge of the phenomenon of gravitational lenses and of general relativity methods for the calculation of the geodesics of photons in the presence of a gravitational potential.
- Verification of the knowledge of the link between multiple images of quasars under gravitational lensing and measurements of the Hubble constant.
- Verification of the knowledge of the current state of Hubble constant determination with different methods.
- Verification of the knowledge of the mechanisms of emission of electromagnetic radiation from active galactic nuclei.
- Verification of the knowledge of photometry procedures for determining the flux of photons from a source.

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

## RESEARCH PROGRAM NO. 7

**The assessment criteria for the qualifications and the interview will be affixed on 28.2.2018 at 10.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.2.2018 at 18.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

**The interview will be held on 1.3.2018 at 9.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

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**Scientific coordinator:** Prof. Luca VATTUONE

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

**Title:** Growth and characterization of ultrathin Fe oxide ( $\text{Fe}_x\text{O}_y$ ) and iron sulfide ( $\text{Fe}_x\text{S}_y$ ) films.

**Description:** The winner of the fellowship will collaborate with the joint DIFI/IMEM-CNR research group. The research plan includes:

- a) Growth of ultrathin iron oxide films on Pt(111) both in high pressure cell and under Ultra High Vacuum conditions by use of supersonic molecular beam.
- b) Morphological and electronic characterization of the as grown films.
- c) Study of their reactivity with  $\text{H}_2\text{S}$  (or  $\text{NH}_3$ ) to obtain iron sulfide (or iron nitride) films.
- d) Study of their chemical reactivity under realistic conditions and comparison with the reactivity of thicker films.

Part d) will be undertaken at the partner laboratory in the NanoBioMedical Centre of Adam Mickiewicz University of Poznan (Polonia).

**Scientific disciplinary sector:** FIS/03 FISICA DELLA MATERIA

**Place:** Dipartimento di Fisica (DIFI)

**Required degree:**

Laurea Magistrale della classe LM-17 Fisica.

**Subjects of the interview:**

- Surface science and related experimental techniques.

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

## RESEARCH PROGRAM NO. 8

**The assessment criteria for the qualifications and the interview will be affixed on 2.3.2018 at 10.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 2.3.2018 at 14.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

**The interview will be held on 2.3.2018 at 15.00** in Dipartimento di Fisica (DIFI), Via Dodecaneso 33, Genova.

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**Scientific coordinator:** Prof. Ornella CAVALLERI

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

**Title:** Growth and functionalization of mesoporous metal oxide films for biomedical applications.

**Description:** The project focusses on the growth of transition metal oxide films and their functionalization with bio-organic ultrathin films. The research aims to tune the surface properties of the oxide to develop biomaterials for dental and orthopedic implants, able to promote osteintegration and to prevent bacterial adhesion.

Anodizing will be employed to grow oxide films with a mesoporous structure mimicking the bone trabecular structure and with elemental inclusions typical of the bone mineral matrix.

The oxide surface will be functionalized through the deposition of ultrathin films of bio-organic molecules to promote the antimicrobial properties of the surface. The systems will be characterized by coupling microscopy (AFM and SEM), photoemission spectroscopy (XPS) and spectroscopic ellipsometry.

**Scientific disciplinary sector:** FIS/07 FISICA APPLICATA (A BENI CULTURALI, AMBIENTALI, BIOLOGIA E MEDICINA)

**Place:** Dipartimento di Fisica (DIFI)

**Required degree:**

Laurea Magistrale della classe LM-17 Fisica.

**Subjects of the interview:**

- Physics of interfaces and thin films.
- Experimental methods for the spectroscopic and morphological characterization of surfaces and thin/ultrathin films.

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



<b>SCIENTIFIC DISCIPLINARY AREA: EARTH SCIENCES</b>
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**RESEARCH PROGRAM NO. 9**

**The assessment criteria for the qualifications and the interview will be affixed on 27.2.2018 at 9.00** in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Bacheca PT, Corso Europa 26, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 27.2.2018 at 12.00** in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Bacheca PT, Corso Europa 26, Genova.

**The interview will be held on 27.2.2018 at 14.00** in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova.

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**Scientific coordinator:** Prof. Laura GAGGERO

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

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

**Description:** The activity of the research grant is developed within a wider investigation on microstructural, physical, chemical analyses on inorganic fibrous materials from natural sources. The activity is particularly addressed to the qualitative and quantitative analysis of asbestos in rocks from tunneling excavations by MOCF /XRPD and Scanning Electron Microscopy + EDS.

The analytical activity is to be carried out by the techniques defined by the normative, providing the results in due time within overall tunneling activity.

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

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

**Required degree:**

Laurea V.O. in: Scienze Geologiche, o Scienze Naturali, o Scienze Ambientali, o Ingegneria per l'ambiente e il territorio.

Laurea Specialistica delle classi: 38/S Ingegneria per l'ambiente e il territorio, o 68/S Scienze della natura, o 82/S Scienze e tecnologie per l'ambiente e il territorio, o 85/S Scienze geofisiche, o 86/S Scienze geologiche.

Laurea Magistrale delle classi: LM-35 Ingegneria per l'ambiente e il territorio, o LM-60 Scienze della natura, o LM-74 Scienze e tecnologie geologiche o LM-75 Scienze e tecnologie per l'ambiente e il territorio, LM-79 Scienze geofisiche.

**Subjects of the interview:**

- Asbestos mineralogy.
- Morphological and in situ compositional analytical methods.

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

**RESEARCH PROGRAM NO. 10**

**The assessment criteria for the qualifications and the interview will be affixed on 27.2.2018 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 27.2.2018 at 14.00** in Dipartimento di Scienze della Salute (DISSAL), Via A. Pastore 1, Genova.

**The interview will be held on 27.2.2018 at 15.00** 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. Maria Pia SORMANI

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

**Title:** Disability measurement in progressive multiple sclerosis through an engineered glove: software development and statistical data analysis.

**Description:** The aim of the research project will be to evaluate the ability to detect changes of the upper limb disability, in one year time, in progressive multiple sclerosis patients, using a new quantitative measurement instrument, consisting of an engineered glove. The glove measures parameters related to the execution with the dominant hand during a sequence of opposition movements between thumb and the other fingers (index, middle, ring and pinkie, such as sequence speed, average duration of touch, time between two touches, and number of right or wrong sequences). The device must be developed and optimized for this purpose. In this project the postdoc will devote himself to the development of the glove management software, the acquisition of data and their statistical analysis.

**Scientific disciplinary sector:** MED/01 STATISTICA MEDICA

**Place:** Dipartimento di Scienze della Salute (DISSAL)

**Required degree:**

Laurea Magistrale delle classi: LM-41 Medicina e chirurgia, o LM-82 Scienze statistiche.

**Subjects of the interview:**

- Programming languages and software development capabilities.
- Knowledge of the SPSS statistical package.
- Evaluation of titles presented and interview on the topics specified in the notice.

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

## **RESEARCH PROGRAM NO. 11**

**The assessment criteria for the qualifications and the interview will be affixed on 1.3.2018 at 9.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOEMI), Clinica Neurologica, Largo Paolo Daneo 3, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2018 at 15.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOEMI), Clinica Neurologica, Largo Paolo Daneo 3, Genova.

**The interview will be held on 2.3.2018 at 11.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOEMI), Clinica Neurologica, Largo Paolo Daneo 3, Genova.

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

**Scientific coordinator:** Prof. Giovanni ABBRUZZESE

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

**Title:** Psychological evaluation and mood assessment in an observational study aimed to create a National registry to better understand the illness and to improve the care of PD patients and their caregivers.

**Description:** The purpose of this project is to create a National Registry to collect data on individuals with PD throughout an observational study. The data collected will be used by clinicians and researchers to better understand the psychological and mood aspect in order to improve the care of PD patients. The National Registry will contain patient assessments of PD related to emotional and cognitive disability and clinician tests of memory and cognition. It will also include data on the burden of the disease on caregivers. The tests and questionnaire instruments are currently in regular use in clinical practice. The intent of the registry is not to evaluate the instruments themselves but to collect essential data from previously validated tools.

**Scientific disciplinary sector:** MED/26 NEUROLOGIA

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

**Required degree:**

Laurea V.O. in Psicologia.

Laurea Specialistica della classe 58/S Psicologia.

Laurea Magistrale della classe LM-51 Psicologia.

**Subjects of the interview:**

- Cognitive, mood and emotional aspects in Parkinsons' disease.
- Neuropsychological, emotional tests and executive function's batteries to evaluate cognition and emotion functions.

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

## **RESEARCH PROGRAM NO. 12**

**The assessment criteria for the qualifications and the interview will be affixed on 2.3.2018 at 9.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOEMI), Clinica Neurologica, Largo Paolo 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 5.3.2018 at 9.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOEMI), Clinica Neurologica, Largo Paolo Daneo 3, Genova.

**The interview will be held on 5.3.2018 at 12.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-infantili (DINOEMI), Clinica Neurologica, Largo Paolo Daneo 3, Genova.

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

**Scientific coordinator:** Prof. Giovanni ABBRUZZESE

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

**Title:** Clinical and functional evaluation for an observational study aimed to create a National registry to better understand the illness and to improve the care of PD patients.

**Description:** The purpose of this project is to create a National Registry to collect demographic, clinical and functional data on individuals with PD throughout an observational study. The data collected will be used by clinicians and researchers to better understand the illness and to improve the care of PD patients. The National Registry will contain information about the patient's Parkinson's disease and other comorbid illness, patient assessments of PD related to disease severity, physical disability and clinician tests of mobility. The tests and questionnaire instruments are currently in regular use in clinical practice. The intent of the registry is not to evaluate the instruments themselves but to collect essential data from previously validated tools.

**Scientific disciplinary sector:** MED/26 NEUROLOGIA

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

**Required degree:**

Laurea V.O. in Medicina e Chirurgia.

Laurea Specialistica della classe 46/S Medicina e Chirurgia.

Laurea Magistrale della classe LM-41 Medicina e Chirurgia.

**Subjects of the interview:**

- Diagnosis, prognosis, comorbidities and pharmacological treatments of Parkinson's disease and its relationship with patients and caregivers quality of life.
- National and international guideline on Parkinson's disease.

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

## **RESEARCH PROGRAM NO. 13**

**The assessment criteria for the qualifications and the interview will be affixed** on 27.2.2018 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 27.2.2018 at 12.00 in Dipartimento di Scienze della Salute (DISSAL), Via A. Pastore 1, Genova.

**The interview will be held** on 27.2.2018 at 14.00 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:** Health promotion and prevention activities in the occupational field.

**Description:** Evidence Based Prevention (EBP) strategies are necessary to support priority objectives, established by the National Prevention Plan 2014-2018, as the reduction of injuries and occupational diseases. The present Research Project envisages the implementation of EBP together with Health Surveillance Activities in different occupational fields, as well as the assessment of their effectiveness through the monitoring of process and outcome indicators. The Project also includes occupational health promotion activities which constitute one of the main objectives of the growth strategy within the framework of the Project Europe 2020, promoted by European Union, that is intended to keep working population healthy for as long as possible.

**Scientific disciplinary sector:** MED/44 MEDICINA DEL LAVORO

**Place:** Dipartimento di Scienze della Salute (DISSAL)

**Required degree:**

Laurea Magistrale della classe LM/SNT4 Scienze delle professioni sanitarie della prevenzione.

**Subjects of the interview:**

- Occupational interest objectives established by the National Prevention Plan 2014-2018.
- Biological risk prevention in the healthcare setting (e.g., recommended vaccination for Healthcare workers; screening activities for latent tuberculosis infection).
- Workplace Health Promotion.

**RESEARCH PROGRAM NO. 14**

**The assessment criteria for the qualifications and the interview will be affixed on 1.3.2018 at 12.00** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2018 at 15.30** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

**The interview will be held on 1.3.2018 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.**

*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. Rossella Bovolenta on the phone number +39 0103532505 or via the email address: rossella.bovolenta@unige.it.*

**Scientific coordinator:** Prof. Rossella BOVOLENTA

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

**Title:** Analysis in GIS environment of landslide susceptibility triggered by rainfalls.

**Description:** The research team has developed an integrated hydrological-geotechnical model to assess, in an almost 3D GIS environment, the susceptibility to landslide failure triggered by rainfall. It is based on the modified CN method for modelling groundwater oscillation and on the Global Limit Balance method applied to each domain cell in the study area. The candidate is required to apply, calibrate and validate this model to different case studies in the Province of Imperia and the Department of Maritime Alps, and discuss with local authorities and Italian-French partners, to support the management of dynamic forecasting in case of intense events. The activity will take place within the framework of the research project INTERREG V-A France - Italy ALCOTRA 2014-2020 AD-VITAM.

**Scientific disciplinary sector:** ICAR/07 GEOTECNICA

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

**Required degree:**

Laurea Specialistica delle classi: 4/S Architettura e ingegneria edile, o 28/S Ingegneria civile, o 38/S Ingegneria per l'ambiente e il territorio.

Laurea Magistrale delle classi: LM-4 Architettura e ingegneria edile-architettura, o LM-23 Ingegneria civile, o LM-24 Ingegneria dei sistemi edilizi, o LM-26 Ingegneria della sicurezza, o LM-35 Ingegneria per l'ambiente e il territorio.

**Subjects of the interview:**

- Slope stability.
- Numerical cartography.
- GIS procedures of 3D analysis.

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

## **RESEARCH PROGRAM NO. 15**

**The assessment criteria for the qualifications and the interview will be affixed on 5.3.2018 at 8.30** 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 5.3.2018 at 15.00** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1, Genova.

**The interview will be held on 5.3.2018 at 17.00** 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. Sergio LAGOMARSINO

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

**Title:** Seismic assessment of complex masonry buildings through nonlinear static analyses.

**Description:** The research main focuses on the seismic analysis of complex masonry structures, referring both to the in-plane and to the out-of-plane response, through nonlinear static analyses. Complex structures are those monumental buildings whose seismic behaviour is affected by the structural response of many interacting units, which are characterized by very different dynamic properties, stiffness and strength. This interaction occurs since historical buildings are often the result of further additions of structural units (as for the palaces, where the main bodies of the structure are often linked by minor connecting bodies) or when the monumental buildings are specific architectonic classes (as for the fortresses which are composed of differently constrained towers and more squat units).

In this context, the research will deepen all the different aspects involved in the nonlinear static procedures, for example in the case of the in-plane response: the criteria for the definition of the equivalent single-degree of freedom system; the choice of the forces' distribution to be adopted in the static analyses; the criteria for the identification of the limit states. Instead, regarding the out-of-plane response, the research will be focused on the problems concerning the amplification phenomena (for atop local mechanisms) and on the filtering effects due to the main structure.

**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, o Architettura, o Ingegneria edile – Architettura, o Ingegneria edile.

Laurea Specialistica delle classi: 4/S Architettura e ingegneria edile, o 28/S Ingegneria civile.

Laurea Magistrale delle classi: LM-4 Architettura e ingegneria edile-architettura, o LM-23 Ingegneria civile, o LM-24 Ingegneria dei sistemi edilizi, o LM-26 Ingegneria della sicurezza.

**Subjects of the interview:**

Expertise on: the seismic behaviour of existing masonry buildings with reference to both the in-plane and out-of- plane response; modelling strategies for masonry structures; nonlinear procedures for the seismic assessment of existing buildings. The following experiences will be considered as preferential: involving in previous research activities pertinent to the specific topic; knowledge and good expertise in code programming for the post processing of results like as Matlab code; knowledge and good expertise on software for the modelling of masonry structures.

## **RESEARCH PROGRAM NO. 16**

**The assessment criteria for the qualifications and the interview will be affixed** on 28.2.2018 at 11.00 in Dipartimento Architettura e Design (DAD), Stradone Sant'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 28.2.2018 at 15.00 in Dipartimento Architettura e Design (DAD), Stradone Sant'Agostino 37, Genova.

**The interview will be held** on 1.3.2018 at 11.00 in Dipartimento Architettura e Design (DAD), Stradone Sant'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. Maria Linda FALCIDIENO

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

**Title:** The culture of emergency communication: from friendly visual communication to critical conscience.

**Description:** Usually “emergency” recall problems and negativity. In any field it’s necessary communicate in order to explain the problem and solve it.

There are a lot of models of advertising: road safety, smoke, brutality, disrespect ambient.

The research mean to explain that visual communication is one of the most efficient way to advertise.

Therefore, graphic designers have to take on emergency problems with critical conscience.

The main purpose is to explain the event to the full extent of audience: this is the first opportunity of change behavior.

**Scientific disciplinary sector:** ICAR/17 DISEGNO

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

**Required degree:**

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:**

Interview focus on explanation of “culture of communication”, “emergency”, “visual communication”, “accessibility”, “critical conscience”. Candidates can use example from literature and work experience.



**RESEARCH PROGRAM NO. 17**

**The assessment criteria for the qualifications and the interview will be affixed on 1.3.2018 at 13.30** in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sez. TEC, Via all'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 1.3.2018 at 16.30** in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sez. TEC, Via all'Opera Pia 15A, Genova.

**The interview will be held on 1.3.2018 at 17.00** in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Sez. TEC, Via all'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. Corrado SCHENONE

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

**Title:** Monitoring and assessment of environmental impact of harbour noise.

**Description:** The activity will concern the monitoring and assessment of the environmental impact of port noise, an aspect that affects many Italian and European urban areas located near the ports. In particular, environmental policy and governance issues will be addressed, since these are key elements to obtain an effective and lasting reduction of noise pollution in harbours. Despite the high availability of soundproofing technologies, the current noise control actions for port areas prove to be inefficient given the lack of a clear regulatory framework and specific environmental policies. The research will analyze in particular the environmental effects of harbour noise and also its impact on the nature.

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

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

**Required degree:**

Laurea V.O. in: Ingegneria per l'ambiente e il territorio, o Scienze Naturali, o Scienze Ambientali, o Pianificazione territoriale, urbanistica e ambientale.

Laurea Specialistica delle classi: 38/S Ingegneria per l'ambiente e il territorio, o 54/S Pianificazione territoriale urbanistica e ambientale, o 68/S Scienze della natura, o 82/S Scienze e tecnologie per l'ambiente e il territorio.

Laurea Magistrale delle classi: LM-35 Ingegneria per l'ambiente e il territorio, o LM-48 Pianificazione territoriale urbanistica e ambientale, o LM-60 Scienze della natura, o LM-75 Scienze e tecnologie per l'ambiente e il territorio.

**Subjects of the interview:**

- Environmental impact assessment.
- Noise monitoring.
- Noise regulations and standards.

## **RESEARCH PROGRAM NO. 18**

**The assessment criteria for the qualifications and the interview will be affixed on 28.2.2018 at 9.00** 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 28.2.2018 at 12.00** in Dipartimento di Chimica e Chimica Industriale (DCCI), Via Dodecaneso 31, Genova.

**The interview will be held on 28.2.2018 at 12.30** 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. Paolo PICCARDO

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

**Title:** Alteration of metallic materials in operating conditions.

**Description:** Investigation on the corrosion behavior of industrial alloys aged in laboratory conditions reproducing the working parameters. The sample will be monitored in operando and characterized post mortem.

**Scientific disciplinary sector:** ING-IND/21 METALLURGIA

**Place:** Dipartimento di Chimica e Chimica Industriale (DCCI)

**Required degree:**

Dottorato di ricerca in Scienze e Tecnologie Chimiche.

**Subjects of the interview:**

- Definition of the real life operating parameters for metallic materials in the industrial manufacturing and energy production fields.
- Methods for the evaluation of the behavior of metallic materials.

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

## **RESEARCH PROGRAM NO. 19**

**The assessment criteria for the qualifications and the interview will be affixed** on 27.2.2018 at 9.00 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 27.2.2018 at 12.00 in Dipartimento di Chimica e Chimica Industriale (DCCI), Via Dodecaneso 31, Genova.

**The interview will be held** on 27.2.2018 at 12.30 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. Paolo Piccardo

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

**Title:** Development of strategies for the technological transfer in the frame of fuel cells SOFC.

**Description:** The main task of this activity is to gather information, plan experiments and transfer the knowledge about new materials with related properties issued from the materials science research.

**Scientific disciplinary sector:** ING-IND/21 METALLURGIA

**Place:** Dipartimento di Chimica e Chimica Industriale (DCCI)

**Required degree:**

Dottorato di ricerca in Scienze e Tecnologie Chimiche.

**Subjects of the interview:**

- Materials related to fuel cell energy plants.
- Methodologies to boost public awareness.

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 1.3.2018 at 14.00** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Pad. B, Via all'Opera Pia 15, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2018 at 17.00** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Pad. B, Via all'Opera Pia 15, Genova.

**The interview will be held on 1.3.2018 at 17.30** in Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Pad. B, Via all'Opera Pia 15, Genova.

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

**Scientific coordinator:** Prof. Barbara BOSIO

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

**Title:** Valorisation of agricultural, food and textile waste for the production of char.

**Description:** Regarding an innovative reactor for pyrolysis and gassification of agricultural, food and textile waste, the following activities will be required:

- Simulation of the fluid-dynamics of the reactor.
- Analysis and interpretation of the experimental data available.
- Literature research of the possible use of the obtained char.
- Analysis of the process sustainability and optimisation of the operating conditions to maximize the production of syngas and char.
- Proposal of solutions to obtain the required process efficiency.

**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 Ingegneria Chimica.

**Subjects of the interview:**

- Processes and reactors of pyrolysis and gassification.
- Fluid-dynamics of spouted-beds.
- Critical operating conditions of spouted-bed reactors.
- Analysis of economic and environmental sustainability.
- Characterization of agricultural, food and textile waste.

## **RESEARCH PROGRAM NO. 21**

**The assessment criteria for the qualifications and the interview will be affixed** on 27.2.2018 at 10.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via all'Opera Pia 11A, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed** on 27.2.2018 at 13.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via all'Opera Pia 11A, Genova.

**The interview will be held** on 27.2.2018 at 16.00 in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via all'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. Mirco RAFFETTO

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

**Title:** Study of suitable techniques to guarantee the reliability of finite element simulators in the presence of bianisotropic materials or media in motion with stationary boundaries.

**Description:** The purpose of this research project is to study the techniques which can be exploited to deduce well-posedness results and convergence of the finite element approximations, for time-harmonic three-dimensional electromagnetic boundary value problems involving bianisotropic media or moving media with stationary boundaries. After a preliminary part in which the state-of-the-art of the topics of interest are analyzed, the study will focus on the techniques which guarantees the best results in terms of reduction of the constraints on the constitutive parameters or on the velocity fields of the media in motion. A significant part of the research activity will be devoted to the numerical simulation of electromagnetic problems which cannot be analyzed or reliably simulated without the theoretical contributions deduced in the first part of this research project.

**Scientific disciplinary sector:** ING-INF/02 CAMPI ELETTROMAGNETICI

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

**Required degree:**

Laurea Magistrale delle classi: LM-28 Ingegneria elettrica, o LM-29 Ingegneria elettronica.

**Subjects of the interview:**

- Electromagnetic theory.
- Uniqueness results for the electromagnetic field.
- Well-posedness results.
- Convergence of numerical approximations.
- The finite element method.
- Constitutive relations for bianisotropic materials and media in motion.

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

## **RESEARCH PROGRAM NO. 22**

**The assessment criteria for the qualifications and the interview will be affixed on 1.3.2018 at 10.00** 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 1.3.2018 at 13.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via all'Opera Pia 13, Genova.

**The interview will be held on 1.3.2018 at 15.30** 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. Giuseppe CASALINO

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

**Title:** Coordination and control of a team of marine vehicles for patrolling missions.

**Description:** The research contract will take place within the project MAREA (Monitoring And Rescue Automation) that aims at executing an exploration mission of a given water zone by means of a team of autonomous vehicles. The team is composed of a surface vessel (the catamaran ULISSE) that acts as a mother ship for different underwater vehicles (eFolaga) and aerial vehicles (quadrotors). The research contract will take care of developing and implementing the coordination algorithms for such a team of vehicles and for the tools needed for the definition of the patrolling mission (i.e. a graphical interface for the mission definition).

**Scientific disciplinary sector:** ING-INF/04 AUTOMATICA

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

**Required degree:**

Laurea V.O. in Ingegneria Informatica.

**Subjects of the interview:**

- Excellent knowledge of: C/C++ programming languages, QT5 framework, soft and hard real-time operating systems, concurrent process programming and networked systems.
- Good knowledge of Matlab/Simulink.
- Basic knowledge of robotics, cooperative robotics, guidance & navigation & control schemes, localization schemes, task priority based control techniques.

## **RESEARCH PROGRAM NO. 23**

**The assessment criteria for the qualifications and the interview will be affixed** on **27.2.2018** at **9.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via all'Opera Pia 11A, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed** on **27.2.2018** at **13.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via all'Opera Pia 11A, Genova.

**The interview will be held** on **27.2.2018** at **13.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via all'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 metrics for knowledge extraction techniques from railway asset data in the context of the EC H2020 IN2DREAMS project.

**Description:** The objective of the research is the study and application of metrics to assess knowledge extraction techniques, based on Big Data Analytics and Data Mining methods, from railway asset data in the context of the EC-H2020 IN2DREAMS project.

In particular, the objective will be to define application scenarios and approaches for data exchange between stakeholders and users of a rail transport network. Starting from the identified scenarios, the research will address the development of methods to assess knowledge extraction techniques, with particular reference to descriptive, diagnostic and predictive models.

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

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

**Required degree:**

Laurea Magistrale delle classi: LM-26 Ingegneria della sicurezza, o LM-32 Ingegneria informatica.

**Subjects of the interview:**

- Railway transport architectures and infrastructures.
- Metrics and methods for assessing Big Data and Data-driven models with particular reference to railway applications.

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 27.2.2018 at 10.00 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 27.2.2018 at 13.00 in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via Dodecaneso 35, Genova.

**The interview will be held** on 28.2.2018 at 14.00 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. Alessio Merlo on the phone number +39 010 3532344 or via the email address: [alessio@dibris.unige.it](mailto:alessio@dibris.unige.it).*

**Scientific coordinator:** Prof. Alessio MERLO

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

**Title:** Development of methodologies for the protection of blockchain-based financial and insurance services.

**Description:** The development and the success of cryptocurrencies like Bitcoin is mainly due to the robustness and the reliability of blockchain technology. The guarantees offered by this technology are pushing the scientific community to question the usability of the same technology to support the decentralization of financial and insurance services. In this context, the aim of this project is the study of new methodologies and solutions that could support a secure and reliable adoption of blockchain in financial environments. The work will be carried out in strong synergy with a leading company in the sector and in the context of research projects funded by the European Union.

**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 V.O. in: Informatica, o Ingegneria Informatica, o Ingegneria Elettronica.

Laurea Specialistica delle classi: 23/S Informatica, o 32/S Ingegneria elettronica, o 35/S Ingegneria informatica.

Laurea Magistrale delle classi: LM-18 Informatica, o LM-29 Ingegneria elettronica, o LM-32 Ingegneria informatica, o LM-66 Sicurezza informatica.

**Subjects of the interview:**

- Cyber security.
- Blockchain technology.

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 1.3.2018 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 1.3.2018 at 14.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Viale Causa 13, Genova.

**The interview will be held on 1.3.2018 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 TACHELLA

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

**Title:** Modeling, Simulation, Verification and Monitoring of Cyber-Physical Systems.

**Description:** The objective is to solve the problem of modeling, simulating, verifying and monitoring of Cyber-Physical 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 modelling 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:**

Laurea V.O. in Ingegneria Informatica.

Laurea Specialistica della classe 35/S Ingegneria informatica.

Laurea Magistrale della classe LM-32 Ingegneria informatica.

**Subjects of the interview:**

- Modeling of Cyber-Physical Systems.
- Difference between simulation and verification.
- Current state of the art in modeling and simulation of cyber-physical systems.
- Techniques for monitoring large-scale cyber-physical systems.
- Engineering for verification in cyber-physical systems.

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

## **RESEARCH PROGRAM NO. 26**

**The assessment criteria for the qualifications and the interview will be affixed on 1.3.2018 at 15.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Place Villa Bonino, 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 1.3.2018 at 18.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Place Villa Bonino, Viale Causa 13, Genova.

**The interview will be held on 2.3.2018 at 9.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Place Villa Bonino, 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. Gianni VERCELLI

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

**Title:** Study on techniques of Smart Audio Narration for innovative accessibility of digital video contents.

**Description:** The objective of the research is to study and design innovative Audio Narration techniques for Digital Video Content in order to identify and design solutions that can increase multi-lingual inclusion and accessibility to various fragile and / or disadvantaged people (blind/ low vision users but also temporarily disabled users, non-native users, etc.). Starting from the state of the art of traditional audio narration (Audiovisual-books, Scripts and Speech Transcript Analysis), analyzing the techniques of semantic video summarization and immersive narration within the videogame cut-scenes, we will study the software solutions that allow the automated generation of audio narration for the serial and massive digital video content and the integration in the production workflow of digital content production and broadcasting systems / platforms.

**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 delle classi: LM-32 Ingegneria informatica, o LM-92 Teorie della comunicazione.

**Subjects of the interview:**

- Technologies and methodologies of digital storytelling.
- Traditional techniques of audio narration and within videogames, digital narratives formats.

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

## **RESEARCH PROGRAM NO. 27**

**The assessment criteria for the qualifications and the interview will be affixed on 2.3.2018 at 11.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Place Villa Bonino, 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 2.3.2018 at 14.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Place Villa Bonino, Viale Causa 13, Genova.

**The interview will be held on 2.3.2018 at 14.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Place Villa Bonino, 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. Gianni VERCELLI

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

**Title:** Study on innovative methodologies for MOOC elearning courses design with Gamification techniques.

**Description:** The objective of the research is to study and design innovative course design techniques for Moodle elearning platform based on MOOC (Massive Open Online Courses). Starting from state of art of MOOC and Digital Storytelling methodologies, which are of great interest in the business contexts of Industry 4.0 and Creative Industries, this research will study the techniques of Gamification. The aim is to identify and design software solutions and methods able to increase the engagement of the participants and the sharing of knowledge at company level, in particular for the integration of the same in the workflow of digital content production and broadcasting systems / platforms.

**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 Specialistica delle classi: 35/S Ingegneria informatica, o 100/S Tecniche e metodi per la società dell'informazione, o 101/S Teoria della comunicazione.

Laurea Magistrale delle classi: LM-32 Ingegneria informatica, o LM-91 Tecniche e metodi per la società dell'informazione, o LM-92 Teorie della comunicazione.

**Subjects of the interview:**

- Technologies and methodologies of elearning and digital storytelling
- MOOC design.

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

## RESEARCH PROGRAM NO. 28

**The assessment criteria for the qualifications and the interview will be affixed on 27.2.2018 at 8.00** 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 27.2.2018 at 11.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via all'Opera Pia 13, Genova.

**The interview will be held on 27.2.2018 at 11.30** 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.**

*As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call), promptly contacting Prof. Antonio Sgorbissa on the phone number +39 0103532706 or via the email address: antonio.sgorbissa@unige.it.*

**Scientific coordinator:** Prof. Antonio SGORBISSA

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

**Title:** ETHICAL-DIONISO – ethical games to increase the awareness of operators in disaster scenarios.

**Description:** The project is focused on the usage of Search&Rescue robots and intelligent systems in disaster scenarios, to the end of identifying the ethical dilemmas and issues that emerge in such context. This will be achieved by conducting a review of studies on disaster bioethics and disaster medicine, and by conducting focus groups and/or interviews with individuals working in the field. The analyses conducted and themes identified will be used to build a knowledge base, which will be the informational set required to define scenarios and prototypical situation patterns, and to develop “ethical games”, aimed at increasing researchers’ and rescuers’ awareness of ethical dilemmas and issues.

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

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

**Required degree:**

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

**Subjects of the interview:**

- Analysis and identification of bioethics issues and criticalities in the context of robotics and intelligent systems.
- Formation of health professionals to bioethics issues.
- Computer science tools for knowledge representation.

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

<b>SCIENTIFIC DISCIPLINARY AREA: ANTIQUITIES, PHILOLOGY, LITERARY STUDIES, ART HISTORY</b>
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**RESEARCH PROGRAM NO. 29**

**The assessment criteria for the qualifications and the interview will be affixed on 1.3.2018 at 8.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Place Villa Bonino, 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 1.3.2018 at 11.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Place Villa Bonino, Viale Causa 13, Genova.

**The interview will be held on 1.3.2018 at 12.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Place Villa Bonino, 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. Gianni VERCELLI

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

**Title:** Digital Storytelling and study on new Digital Video formats.

**Description:** The aim of the research is to study and realize innovative forms of Digital Storytelling and the creation of new formats for Digital Video in order to identify and design solutions that can increase the engagement of viewers who go beyond the current offer on 'traditional media'. By creating new forms and / or adapting existing formats, we'll realize experiments with technologies, algorithms and solutions that can "narrate" effectively and immersively. Digital storytelling methodologies will be studied for interactive and immersive video formats in relation to current forms of digital narratives (web-based stories, interactive stories, hypertexts and narrative computer games) and software solutions for video contents with high-level user engagement and integration into the production workflow of digital content production and broadcasting systems / platforms.

**Scientific disciplinary sector:** L-ART/06 CINEMA, FOTOGRAFIA E TELEVISIONE

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

**Required degree:**

Laurea Magistrale delle classi: LM-32 Ingegneria informatica, o LM-92 Teorie della comunicazione.

**Subjects of the interview:**

- Technologies and methodologies of digital storytelling.
- Digital video formats and digital narratives.

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

<b>SCIENTIFIC DISCIPLINARY AREA: HISTORY, PHILOSOPHY, PEDAGOGY AND PSYCHOLOGY</b>
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**RESEARCH PROGRAM NO. 30**

**The assessment criteria for the qualifications and the interview will be affixed on 27.2.2018 at 15.00** in Dipartimento di Antichità, Filosofia e Storia (DAFIST), ultimo piano, Via Balbi 6, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 28.2.2018 at 9.00** in Dipartimento di Antichità, Filosofia e Storia (DAFIST), ultimo piano, Via Balbi 6, Genova.

**The interview will be held on 28.2.2018 at 11.00** in Dipartimento di Antichità, Filosofia e Storia (DAFIST), ultimo piano, Via Balbi 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.**

**Scientific coordinator:** Prof. Luca LO BASSO

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

**Title:** Transformations in maritime labour through the papers of the “Cassa per gli invalidi della Marina mercantile” of Genoa (1861 – 1913).

**Description:** The aim of the research project is to investigate changes and persistences in maritime work during the second half of the Nineteenth century, a period marked by the progressive advance of steam to the detriment of sail ships. In order to evaluate these changes in a critical perspective, the main source chosen for this project is the Genoese Cassa degli Invalidi della marina mercantile, a social security institution established in 1861 and active until 1913. The territorial district of this institute extended from the French border to the Magra valley, Sardinia included; applications for pensions, dowry subsidies and various annual grants were addressed to local committees and were examined by a committee appointed by the Board of the Cassa which then proceeded to form a special list of beneficiaries. The abundant and varied documentation is fully preserved at the INPS Historical Archive (Rome).

**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, o Dottorato di ricerca in Storia.

**Subjects of the interview:**

- Elements of maritime and naval history for the period between the Sixteenth and the Twentieth centuries, with particular attention to aspects of social and economic history.
- History of shipbuilding and construction techniques between Middle and Contemporary ages, in relation to changes in maritime work.
- Labour History.
- Mediterranean History.

## **RESEARCH PROGRAM NO. 31**

**The assessment criteria for the qualifications and the interview will be affixed** on **27.2.2018** at **12.00** in Dipartimento di Scienze della Formazione (DISFOR), 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 **27.2.2018** at **17.00** in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, Genova.

**The interview will be held** on **1.3.2018** at **10.30** in Dipartimento di Scienze della Formazione (DISFOR), 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. Fabio CAFFARENA

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

**Title:** International migrations and maritime traffic in Genoa in the twentieth century.

**Description:** The research program relates to the study of the development of maritime traffic in the port and its economic impact on Genoa in the Twentieth Century. The purpose is to investigate the role of the port of Genoa in the international flows of historical migrations and the effects of the emigration movement on the industrial development of the city (shipping companies, shipyards and manufacturing industries). Essential support are the documents of the "Centro Emigrazione", active in Genoa until the seventies of the twentieth century. The data obtained from these sources will be contextualised within the complex of the economic and social networks of maritime traffic, also through research aimed at exploring private archives of shipping companies. Particular attention will be devoted to recover all different data-sources, useful for catching the variety and complexity of economic, social, institutional networks involved in the processes of maritime and migration flows.

**Scientific disciplinary sector:** M-STO/04 STORIA CONTEMPORANEA

**Place:** Dipartimento di Scienze della Formazione (DISFOR)

**Required degree:**

Dottorato di ricerca in Storia.

**Subjects of the interview:**

- The historical European migrations in the economic, social and cultural events of the Mediterranean area, with particular reference to the Ligurian-Genoese area between the end of the nineteenth and twentieth centuries.
- Migration processes between the Old and the New World with particular reference to the development of maritime and passenger traffic in Italian ports.

## **RESEARCH PROGRAM NO. 32**

**The assessment criteria for the qualifications and the interview will be affixed on 2.3.2018 at 10.00** in Dipartimento di Scienze Politiche (DISPO), ex Albergo dei Poveri, Piazzale E. Brignole 2A, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 2.3.2018 at 13.00** in Dipartimento di Scienze Politiche (DISPO), ex Albergo dei Poveri, Piazzale E. Brignole 2A, Genova.

**The interview will be held on 2.3.2018 at 15.00** in Dipartimento di Scienze Politiche (DISPO), ex Albergo dei Poveri, Piazzale E. Brignole 2A, 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. Daniela PREDA

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

**Title:** Resistance in Europe. Mario Alberto Rollier between European Federalism and Christian Ecumenism.

**Description:** The proposed research is part of the study on the history of Resistance and movements for European unity initiated by Walter Lipgens and aims to deepen the experience of combating totalitarianism and reflection on the European unity of M.A. Rollier (1909-1980), a federalist Waldensian, active in the Italian and European Resistance both for a clear vision of the political problems inherent to nationalism and the disorders generated by the anarchist system of international relations and for religious convictions. The involvement of Rollier in the World Council of Churches in Geneva makes it possible to reconstruct the lively debate on the European Resistance in which personalities such as Visser't Hooft, Niemöller, J.F. Dulles, Bonhoeffer, Philip, von Moltke, von Trott, Bell, participated.

**Scientific disciplinary sector:** M-STO/04 STORIA CONTEMPORANEA

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

**Required degree:**

Dottorato di ricerca in Istituzioni, idee, movimenti politici nell'Europa contemporanea, o Dottorato di ricerca in Storia contemporanea, o Dottorato di ricerca in Storia dell'Europa.

**Subjects of the interview:**

- History of the second world war and history of the Resistance.
- Projects of European unity in the first half of the 20th century.
- History of movements for European unity.
- Sources and studies on Resistance and European unity.
- Contemporary history of European integration.

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 1.3.2018 at 9.00** in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Via Balbi 2, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2018 at 12.00** in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Via Balbi 2, Genova.

**The interview will be held on 1.3.2018 at 14.00** in Dipartimento di Antichità, Filosofia e Storia (DAFIST), Via Balbi 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 MANTI

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

**Title:** The ethical dimension of AAT: the significance of a systemic analysis on the evaluation process.

**Description:** The identification of methodologies and evaluation criteria related to the generation of well-being for all subjects (humans and animals) involved in AAT (Animal Assisted Therapies) and AAE (Animal Assisted Education) requires a systemic approach and it is crucial for their ethical sustainability.

**Objective:** organizing an assessment system and analyzing its ethical implications.

**Expected outcomes:** The application of research outcomes by public and private institutions to develop teams' ethical competence; contributing to the implementation of the AAI Guidelines and to the research activities of CRN-IAA (IZSVe) and the Ministry of Health.

**Dissemination:** Participation in ministerial round tables; national conference; educational activities; scientific publications.

The research is the implementation of the Framework Agreement with IZSVe.

**Scientific disciplinary sector:** M-FIL/03 FILOSOFIA MORALE

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

**Required degree:**

Laurea Magistrale delle classi: LM-51 Psicologia, o LM-78 Scienze filosofiche, o LM-85 Scienze pedagogiche.

**Subjects of the interview:**

- Elements of bioethics.
- Professional ethics concerning healthcare, social and educational jobs.
- Organizational ethics with a specific focus on clinical governance of AAT and the development of AAI projects within scholastic contexts by educational institutions.
- Methodology of psychological, educational and applied ethics research with a specific focus on AAT and AAI.
- Theoretical knowledge about AAI, its guidelines by Italian Health Ministry and the inherent legislation.
- Elements of Anthrozoology.
- Elements of animal and comparative psychology.
- The biopsychosocial model, the functional diagnosis according to ICF (International Classification of Functioning) and its application within rehabilitative contexts with a specific focus on AAT and AAI.
- Criteria, clinical and educational evaluation models, statistical analysis about AAT and AAI data.

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 28.2.2018 at 10.00 in Dipartimento di Scienze della Formazione (DISFOR), 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 28.2.2018 at 14.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, Genova.

**The interview will be held** on 5.3.2018 at 10.30 in Dipartimento di Scienze della Formazione (DISFOR), 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. Roberto PELLEREY

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

**Title:** New Patterns of online Communication for University: Development and Implementation of the Web Radio Project.

**Description:** World Wide Web concentrates different systems of communication into easily accessible and usable “places”. In this framework, the project focuses on the use of the web-radio, aiming at assessing its multifarious potentialities and exploring new forms of online communication and interaction among students. The related activity will be carried on at the Savona University Campus. The Campus hosts a course in “Communication Sciences” and a master in “Digital Humanities” (whose educational programmes both include issues related to the proposed research) as well as specialized laboratories and facilities (due to previous investments made by DISFOR). Main aim of the research consists therefore in implementing a hypermedia service for the University of Genoa, through setting up a research laboratory for the production and broadcasting of communication products with high social, information and educational value.

**Scientific disciplinary sector:** M-FIL/05 FILOSOFIA E TEORIA DEI LINGUAGGI

**Place:** Dipartimento di Scienze della Formazione (DISFOR)

**Required degree:**

Dottorato di ricerca in Lingue, culture e tecnologie dell’informazione e della comunicazione.

**Subjects of the interview:**

- Techniques and methods for production and broadcast of radio products.
- Semantics of new media.
- Communication.
- Sociology of Communications.

## **RESEARCH PROGRAM NO. 35**

**The assessment criteria for the qualifications and the interview will be affixed** on 27.2.2018 at 15.00 in Dipartimento di Scienze della Formazione (DISFOR), 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 28.2.2018 at 15.00 in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, Genova.

**The interview will be held** on 1.3.2018 at 14.00 in Dipartimento di Scienze della Formazione (DISFOR), 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. Laura MIGLIORINI

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

**Title:** Birth environment perception in mothers, partner and clinicians.

**Description:** The setting quality becomes very important in the care environments context, since spatial characteristics can play a decisive role in enhancing users well-being. The general aim of the study is to identify the best environmental conditions perceived by users and clinicians in relation to particular situation such as labor and birth, both from the point of view of clinicians working conditions and the psychological well-being of mothers and partners. Through the project we intend to support a participatory process of the users that would help to implement the awareness of the birth as a physiological event. The study aims to investigate the perception of birth spaces by comparing two different settings (birth center and gynecology-obstetrics department) according to the well-being of mothers, partners and clinicians.

**Scientific disciplinary sector:** M-PSI/05 PSICOLOGIA SOCIALE

**Place:** Dipartimento di Scienze della Formazione (DISFOR)

**Required degree:**

Dottorato di ricerca in Migrazioni e processi interculturali.

**Subjects of the interview:**

- Theoretical and research advances in perinatal psychology.
- Study of environment perception in the birth context: methodology and survey tools.

## **RESEARCH PROGRAM NO. 36**

**The assessment criteria for the qualifications and the interview will be affixed** on 27.2.2018 at 10.30 in Dipartimento di Scienze della Formazione (DISFOR), IV piano, 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 27.2.2018 at 14.00 in Dipartimento di Scienze della Formazione (DISFOR), IV piano, Corso Podestà 2, Genova.

**The interview will be held** on 28.2.2018 at 14.00 in Dipartimento di Scienze della Formazione (DISFOR), IV piano, 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. Donatella CAVANNA

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

**Title:** Validation of a tool to measure the capacity of mentalization in developmental age.

**Description:** Mentalization's capacity constitutes one of the most used criteria for evaluating mental health in the developmental age. The research project is aimed at the Italian validation of a measure of mentalization, as reflective function (FR), applied to the narratives.

**Scientific disciplinary sector:** M-PSI/07 PSICOLOGIA DINAMICA

**Place:** Dipartimento di Scienze della Formazione (DISFOR)

**Required degree:**

Dottorato di ricerca in Psicologia, antropologia e scienze cognitive.

**Subjects of the interview:**

The interview will verify the candidate's competence on the use of a wide range of attachment tools based on narratives; it will also occur the knowledge and contextual ability to measure reflective function on clinical interviews; it will verify the familiarity with the procedures for validating narrative tools.

**RESEARCH PROGRAM NO. 37**

**The assessment criteria for the qualifications and the interview will be affixed on 2.3.2018 at 10.30** in Dipartimento di Giurisprudenza, Istituto Tarello per la Filosofia del Diritto, Via Balbi 30, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 2.3.2018 at 13.30** in Dipartimento di Giurisprudenza, Istituto Tarello per la Filosofia del Diritto, Via Balbi 30, Genova.

**The interview will be held on 2.3.2018 at 14.30** in Dipartimento di Giurisprudenza, Istituto Tarello per la Filosofia del Diritto, Via Balbi 30, Genova.

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

**Scientific coordinator:** Prof. Pierluigi CHIASSONI

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

**Title:** The problem of the meaning of legal sentences.

**Description:** The meaning of legal sentences is a key problem for the theory of law and legal argumentation. Taking stock of current developments in ordinary language philosophy, the project purports to develop strategies for overcoming the semantic reductionism characterising traditional analytical jurisprudence. This path, started by H. L. A. Hart, under the influence of Wittgenstein and Winch, remains so far unaccomplished. Endorsing Hart's methodological distinction between the internal and the external points of view, the project will pursue two objectives: i) analysing the use of normative language and different possibilities of understanding and describing deontic sentences in theoretical contexts; ii) working out a typology of different uses of legal sentences that is useful to identify their assertibility conditions in different contexts of utterance.

**Scientific disciplinary sector:** IUS/20 FILOSOFIA DEL DIRITTO

**Place:** Dipartimento di Giurisprudenza

**Required degree:**

Laurea Magistrale della classe LMG/01 Giurisprudenza.

**Subjects of the interview:**

- Analytical philosophy (logical empiricism, philosophy of ordinary language).
- Analytical Jurisprudence.
- Contemporary Analytical Philosophy of Law.
- General theory of norms and normative propositions.
- Theory of legal interpretations and legal science.
- Deontic Logic.

The candidate will need to prove his/her knowledge of the English, Spanish and French language.

**RESEARCH PROGRAM NO. 38**

**The assessment criteria for the qualifications and the interview will be affixed on 28.2.2018 at 10.00** in Dipartimento di Economia (DIEC), Via F. Vivaldi 5, Genova.

**The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on 1.3.2018 at 10.00** in Dipartimento di Economia (DIEC), Via F. Vivaldi 5, Genova.

**The interview will be held on 1.3.2018 at 10.30** in Dipartimento di Economia (DIEC), Via F. Vivaldi 5, Genova.

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

**Scientific coordinator:** Prof. Pierpaolo UBERTI

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

**Title:** Mathematical modelling for decisions.

**Description:** Research activity with the aim of developing and implement mathematical models for economics, finance and insurance focused on the computational and numerical aspects.

**Scientific disciplinary sector:** SECS-S/06 METODI MATEMATICI DELL'ECONOMIA E DELLE SCIENZE ATTUARIALI E FINANZIARIE

**Place:** Dipartimento di Economia (DIEC)

**Required degree:**

Laurea V.O. in Matematica, o Economia e commercio.

**Subjects of the interview:**

- Mathematics for Economics, Finance and Insurance;
- Mathematical Finance;
- Calculus;
- Linear Algebra.

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 28.2.2018 at 12.00** in Dipartimento di Scienze della Formazione (DISFOR), 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 28.2.2018 at 15.00** in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, Genova.

**The interview will be held on 5.3.2018 at 12.00** in Dipartimento di Scienze della Formazione (DISFOR), 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. Luisa STAGI

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

**Title:** SNAPCHAT generation.

**Description:** The project is part of the Partnership Agreement signed on 11 May 2016, between the DiSFOR Department and the Municipality of Genoa, and stems from the consideration that youth must face a world in vertiginous acceleration, in which they will be repeatedly called to redesign, with a strong assumption of individual responsibility, their own life and skills, in increasingly complex, and difficult to decipher, reversible and pervasive paths. It is increasingly important the way how we develop transversal knowledge and skills and how lifestyles are shaped.

A framework intertwined with the availability of social and economic capital, as well as to the dynamics and the ability of cities to generate knowledge and to enable energies.

The research will include a qualitative inquiry and a work of territorial animation in the field of culture and work policies aimed at enhancing the talents and resources of young people and their work placement.

**Scientific disciplinary sector:** SPS/07 SOCIOLOGIA GENERALE

**Place:** Dipartimento di Scienze della Formazione (DISFOR)

**Required degree:**

Laurea V.O. in Scienze Politiche.

**Subjects of the interview:**

- Knowledge of sociological theory regarding: labor policies with particular reference to NEETs; youth policies; intellectual and creative work.
- Qualitative research methodology: group techniques; techniques of territorial animation and development of participation.
- Knowledge of the policies for the cultural and creative enterprises of the Genoese Administration.
- Knowledge of active labor policies, with particular reference to NEETs, of local authorities in Genoa.
- Knowledge of the stakeholders in the areas of relevance for the project.

The candidate will need to prove his/her knowledge of the English and French languages.