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**Course in: ARCHITECTURE AND DESIGN****Curriculum: ARCHITECTURE (CODE 8172)**

<b>Coordinator:</b> Gausa Navarro Manuel	
Department of Architecture and Design (Dipartimento di Architettura e Design – DAD)	
<b>Places:</b> 4 (°) – <b>Grants:</b> 2 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 2 places for graduates who have a grant from abroad.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 – 9.30 Online interview
<b>Further information on how to present qualifications/publications</b>	<p>Every candidate is asked to present a research project proposal, which should be structured as follows:</p> <ul style="list-style-type: none"><li>- research goals</li><li>- research methods</li><li>- innovation criteria with respect to the discipline's current scientific landscape</li><li>-bibliography</li><li>-research impact factor</li></ul> <p>The research project proposal should contain max. 15.000 characters (excluding spaces), including the bibliography. The aforementioned project will then be evaluated by the Commission together with your qualifications and will be discussed during the oral exam. On the day of the exam, candidates can present a portfolio relating to their previous studies/research experience.</p>
<b>Exam Syllabus</b>	Interview on the submitted research project, the PhD course topics, and the candidate's specific interests in the field. English language test.
<b>Research Themes</b>	<p>The research topics stated below make up part of the overall evaluation and are related to the four components of the PhD course material:</p> <ul style="list-style-type: none"><li>-territorial Strategies Policies and Perspectives;</li><li>-theory of Design;</li><li>-strategies and technologies for sustainability and systemic design</li><li>-visual languages and communication</li></ul>
<b>Information on references</b>	Letters of recommendation are not requested. Any letter of recommendation received shall not be taken into consideration.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Dott.ssa Michela Mazzucchelli (+39)0102095810 dottoratodad@unige.it <a href="http://www.addgenova.org/DSA/it">http://www.addgenova.org/DSA/it</a> <a href="https://architettura.unige.it/">https://architettura.unige.it/</a>

**Course in: ARCHITECTURE AND DESIGN****Curriculum: DESIGN (CODE 8173)**

<b>Coordinator:</b> Gausa Navarro Manuel	
Department of Architecture and Design (Dipartimento di Architettura e Design – DAD)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 9.30 Online interview
<b>Further information on how to present qualifications/publications</b>	Every candidate is asked to present a research project proposal, which should be structured as follows: <ul style="list-style-type: none"><li>- research goals</li><li>- research methods</li><li>- innovation criteria with respect to the discipline's current scientific landscape</li><li>- bibliography</li><li>- research impact factor</li></ul>
<b>Exam Syllabus</b>	Interview on the submitted research project, the PhD course topics, and the candidate's specific interests in the field. English language test.
<b>Research Themes</b>	The research topics stated below make up part of the overall evaluation and are related to the four components of the PhD course material: <ul style="list-style-type: none"><li>- territorial Strategies Policies and Perspectives;</li><li>- theory of Design;</li><li>- strategies and technologies for sustainability and systemic design</li><li>- visual languages and communication.</li></ul>
<b>Information on references</b>	Letters of recommendation are not requested. Any letter of recommendation received shall not be taken into consideration
<b>Foreign Languages</b>	English
<b>Further Information</b>	Dott.ssa Michela Mazzucchelli (+39)0102095810 dottoratodad@unige.it <a href="http://www.addgenova.org/DSA/it">http://www.addgenova.org/DSA/it</a> <a href="https://architettura.unige.it/">https://architettura.unige.it/</a>

**Course in: BIOENGINEERING AND ROBOTICS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)****Curriculum: ADVANCED AND HUMANOID ROBOTICS (CODE 8174)**

<b>Coordinator:</b> Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
<b>Places:</b> 15 – <b>Grants:</b> 15 (*)	
(*) 15 grants from the Foundation of the Italian Institute of Technology (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
<b>Comparative assessment procedure</b>	<b>QUALIFICATIONS/PUBLICATIONS</b>
<b>Further information on how to present qualifications/publications</b>	<p>Candidates must submit:</p> <ul style="list-style-type: none"> <li>- the complete list of all the exams sat during their Bachelor’s and Master’s degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator.</li> <li>- the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: <a href="http://phd.dibris.unige.it/biorob/index.php/howto-apply">http://phd.dibris.unige.it/biorob/index.php/howto-apply</a>);</li> <li>- a project work related to one (or more) of the research themes offered (please use the template available at the website: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>);</li> <li>- a curriculum vitae et studiorum including all the technical-scientific studies/activities already done and pertinent to the doctoral programme;</li> <li>- Name(s), status and place of employment of the referee(s) - from one and up to three- chosen by the candidates to support their candidature.</li> </ul>
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1. Online visual perception for service robots</li> <li>2. Mobile manipulation for service robots in dynamic environment</li> <li>3. Affordance based visually guided object manipulation</li> <li>4. Enhanced Reproducibility of Robot Manipulation - Sim-to-Real Learning in Agri-Food Robotics</li> <li>5. Snake Robot Arm for Inspection and Maintenance</li> <li>6. Robot-Assisted Catheterization Systems</li> <li>7. Robotic Microsurgery</li> <li>8. Sensing and Automation in Robotic Surgery</li> <li>9. Telesurgery</li> <li>10. Optimization based Operational-space Control of High-Performance Robots</li> <li>11. Mixed Reality Interfaces for Robotics (2 positions)</li> <li>12. Bio-inspired design and Smart Control of a Lower Limb Soft Exoskeleton</li> <li>13. AI (Deep Learning) Systems for Medical Image Analysis and Diagnosis</li> <li>14. Skippy: A Highly Athletic Monopedal Robot</li> <li>15. Reconfigurable robotic systems for manipulation of Deformable Materials</li> <li>16. Design and Development of Non-Rigid Lightweight Dexterous Robot Manipulator</li> <li>17. Development of reconfigurable multi-finger system for in-Hand Manipulation</li> <li>18. Development of a robot agnostic interaction control framework</li> <li>19. Distributed AI in sensor networks and robotic platforms</li> <li>20. Computer Vision for Legged Robots</li> <li>21. Machine Learning for Quadruped Motion Generation</li> <li>22. Optimization-based planning for Legged Robots</li> </ol> <p>The detailed description of the research themes can be found at the following link:  <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>  <a href="https://www.iit.it/it/phd-school">https://www.iit.it/it/phd-school</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:  <a href="mailto:phd.biorob@dibris.unige.it">phd.biorob@dibris.unige.it</a>.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>

<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>The detailed description of the research themes can be found at the following link: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a> <a href="https://www.iit.it/it/phd-school">https://www.iit.it/it/phd-school</a></p> <p>The template for the research project can be found at the following link: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p> <p>For further informations about the research themes please contact: Dr. Ferdinando Cannella (Advanced Robotics): <a href="mailto:Ferdinando.Cannella@iit.it">Ferdinando.Cannella@iit.it</a>;</p> <p>Dr. Lorenzo Natale (Humanoid Robotics): <a href="mailto:Lorenzo.Natale@iit.it">Lorenzo.Natale@iit.it</a></p>

**Course in: BIOENGINEERING AND ROBOTICS**

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

**Curriculum: BIOENGINEERING (CODE 8175)**

<b>Coordinator:</b> Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
<b>Places:</b> 6 – <b>Grants:</b> 6 (*)	
<p>(*) 4 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.</p> <p>(*) 1 grant cofunded by MIUR/DIBRIS, the gross annual amount of the scholarship is € 16.500,00 including social security contributions charged to the scholarship recipient.</p> <p>(*) 1 grant from the Foundation of the Italian Institute of Technology (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.</p>	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	<p>Candidates must submit:</p> <ul style="list-style-type: none"> <li>- the complete list of all the exams sat during their Bachelor’s and Master’s degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator.</li> <li>- the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: <a href="http://phd.dibris.unige.it/biorob/index.php/howto-apply">http://phd.dibris.unige.it/biorob/index.php/howto-apply</a>);</li> <li>- a project work related to one (or more) of the research themes offered (please use the template available at the website: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>);</li> <li>- a curriculum vitae et studiorum including all the technical-scientific studies/activities already done and pertinent to the doctoral programme;</li> <li>- Name(s), status and place of employment of the referee(s) - from one and up to three- chosen by the candidates to support their candidature.</li> </ul>
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1. Unobtrusive wearable sensors for advanced biomedical applications</li> <li>2. Decoding the neurophysiology of locomotor control in Parkinson’s disease</li> <li>3. The recovery of motor skills through enhancement and reorganization of sensori-motor information</li> <li>4. Visual perception and interaction in virtual and augmented reality environments</li> <li>5. PET and ASL imaging techniques in epileptic pediatric patients</li> <li>6. Nano-neuro interfaces for brain-on-a-chip studies</li> <li>7. Design and realization of an inkjet printed Micro Electrode Array for neurophysiological applications</li> <li>8. Recreating in vitro interconnected brain regions coupled to Multi-Electrode Arrays: towards a brain-on-a-chip</li> <li>9. New tools to decode the mechanisms underlying corticomuscular coherence</li> <li>10. Injectable hydrogels for neuroengineering</li> <li>11. Mechanobiology of arrhythmia</li> <li>12. Perceptual and motor issues in the development of interactive intelligence</li> <li>13. Dynamic Tumor Modeling</li> <li>14. Critical dynamics in the human brain</li> <li>15. Electrophysiological Correlates of Neurorehabilitation</li> </ol> <p>The detailed description of the research themes can be found at the following link: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: <a href="mailto:phd.biorob@dibris.unige.it">phd.biorob@dibris.unige.it</a>.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign Languages</b>	English

<b>Further Information</b>	<p>The detailed description of the research themes can be found at the following link: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p> <p>The template for the research project can be found at the following link: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p> <p>For further informations about the research themes please contact: Prof. Paolo Massobrio <a href="mailto:paolo.massobrio@unige.it">paolo.massobrio@unige.it</a></p>
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**Course in: BIOENGINEERING AND ROBOTICS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)****Curriculum: BIONANOTECHNOLOGY (CODE 8176)**

<b>Coordinator:</b> Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
<b>Places:</b> 7 – <b>Grants:</b> 7 (*)	
(*) 7 grants from the Foundation of the Italian Institute of Technology (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	<p>Candidates must submit:</p> <ul style="list-style-type: none"> <li>- the complete list of all the exams sat during their Bachelor’s and Master’s degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator.</li> <li>- the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: <a href="http://phd.dibris.unige.it/biorob/index.php/howto-apply">http://phd.dibris.unige.it/biorob/index.php/howto-apply</a>);</li> <li>- a project work related to one (or more) of the research themes offered (please use the template available at the website: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>);</li> <li>- a curriculum vitae et studiorum including all the technical-scientific studies/activities already done and pertinent to the doctoral programme;</li> <li>- Name(s), status and place of employment of the referee(s) - from one and up to three- chosen by the candidates to support their candidature.</li> </ul>
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1. Self-growing natural composite materials based on fungal mycelium of project</li> <li>2. Biocomposites from vegetables residues</li> <li>3. Sustainable Food Packaging</li> <li>4. Multifunctional porous materials for advanced water treatment</li> <li>5. Flexible and sustainable electronics</li> <li>6. Neuro-Dynamics: a multifunctional approach to study brain dynamic, functioning, and disease.</li> <li>7. Protein ID: next generation sequencing and identification of human proteins.</li> <li>8. Advanced Light Microscopy for Life Sciences</li> </ol> <p>The detailed description of the research themes can be found at the following links:  <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>  <a href="https://www.iit.it/it/phd-school">https://www.iit.it/it/phd-school</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:  <a href="mailto:phd.biorob@dibris.unige.it">phd.biorob@dibris.unige.it</a>.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>The detailed description of the research themes can be found at the following link:  <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>  <a href="https://www.iit.it/it/phd-school">https://www.iit.it/it/phd-school</a></p> <p>The template for the research project can be found at the following link:  <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p> <p>For further informations about the research themes please contact:  Dr. Giuseppe Vicidomini  <a href="mailto:Giuseppe.Vicidomini@iit.it">Giuseppe.Vicidomini@iit.it</a></p>



**Course in: BIOENGINEERING AND ROBOTICS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)****Curriculum: COGNITIVE ROBOTICS, INTERACTION AND REHABILITATION TECHNOLOGIES (CODE 8177)**

<b>Coordinator:</b> Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
<b>Places:</b> 6 (°) – <b>Grants:</b> 5 (*)	
(*) 5 grants from the Foundation of the Italian Institute of Technology (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(°) 1 specifically reserved to scholarship holders within the international mobility programme: H2020-MSCA-ITN-2019, Consorzio ETN: MULTITOUCH	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	<p>Candidates must submit:</p> <ul style="list-style-type: none"> <li>- the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator.</li> <li>- the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: <a href="http://phd.dibris.unige.it/biorob/index.php/howto-apply">http://phd.dibris.unige.it/biorob/index.php/howto-apply</a>);</li> <li>- a project work related to one (or more) of the research themes offered (please use the template available at the website: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>);</li> <li>- a curriculum vitae et studiorum including all the technical-scientific studies/activities already done and pertinent to the doctoral programme;</li> <li>- Name(s), status and place of employment of the referee(s) - from one and up to three-chosen by the candidates to support their candidature.</li> </ul>
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1. Autonomous learning in human-robot interaction: towards transparent robot symbiosis in skill acquisition</li> <li>2. The role of social signals in human-robot interaction in group</li> <li>3. Cortical networks for affective communication in human robot interaction</li> <li>4. Altered Reality for Rehabilitation and Training of Low-Vision Individuals</li> <li>5. Cortical mechanisms of spatial representation in children with and without visual impairment</li> <li>6. Cross-Sensory perception and deprivation - Marie Sklodowska-Curie Fellow</li> </ol> <p>The detailed description of the research themes can be found at the following link:  <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>  <a href="https://www.iit.it/it/phd-school">https://www.iit.it/it/phd-school</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:  <a href="mailto:phd.biorob@dibris.unige.it">phd.biorob@dibris.unige.it</a>.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>The detailed description of the research themes can be found at the following link:  <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>  <a href="https://www.iit.it/it/phd-school">https://www.iit.it/it/phd-school</a></p> <p>The template for the research project can be found at the following link:  <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p> <p>For further informations about the research themes please contact:  Prof. Giulio Sandini  <a href="mailto:Giulio.Sandini@iit.it">Giulio.Sandini@iit.it</a></p>

**Course in: BIOENGINEERING AND ROBOTICS**

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

**Curriculum: ROBOTICS AND AUTONOMOUS SYSTEMS (CODE 8179)**

<b>Coordinator:</b> Cannata Giorgio	
Polytechnic Section of the Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
<b>Places:</b> 5 (°) – <b>Grants:</b> 3 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(*) 1 grant co-funded by MIUR/DIBRIS, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(°) 2 places reserved for the employees of Teseo Srl	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	<p>Candidates must submit:</p> <ul style="list-style-type: none"> <li>- the complete list of all the exams sat during their Bachelor’s and Master’s degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator.</li> <li>- the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: <a href="http://phd.dibris.unige.it/biorob/index.php/howto-apply">http://phd.dibris.unige.it/biorob/index.php/howto-apply</a>);</li> <li>- a project work related to one (or more) of the research themes offered (please use the template available at the website: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>);</li> <li>- a curriculum vitae et studiorum including all the technical-scientific studies/activities already done and pertinent to the doctoral programme;</li> <li>- Name(s), status and place of employment of the referee(s) - from one and up to three- chosen by the candidates to support their candidature.</li> </ul>
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1. Sensor-based control of robots for human-robot cooperative operations</li> <li>2. Robot skin for contact processing and robot control</li> <li>3. Tactile sensors for robot hands</li> <li>4. Design of a multi-modal robot skin</li> <li>5. Machine learning models for robot tactile sensing and perception</li> <li>6. Robot manipulation of soft and flexible objects</li> <li>7. Trust in human-robot interaction: perception, planning, and action</li> <li>8. Natural, engaging and culture-aware verbal and non-verbal Interaction between robots and humans</li> <li>9. Hybrid deliberative/reactive robot architectures for human robot collaboration employing Augmented Reality techniques and wearable sensors.</li> <li>10. Outlier robust state estimation methods for robotics and autonomous systems</li> <li>11. Machine learning methods for active identification</li> <li>12. Advanced robot manipulation skills acquired via human demonstrations</li> <li>13. Gesture-based human-robot interaction</li> <li>14. Human-robot interaction techniques mediated by speech-enabled holographic avatars</li> <li>15. Goal-based cooperation and reasoning models for heterogeneous robot swarms made-up of terrestrial and aerial robots</li> <li>16. Hybrid neuro-symbolic approaches to Artificial Intelligence techniques for robots and intelligent environments</li> <li>17. Low-power and low-cost solutions for object tracking in resource limited and constrained scenarios</li> </ol> <p>Please check the doctorate website for a detailed description of the research themes: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: <a href="mailto:phd.biorob@dibris.unige.it">phd.biorob@dibris.unige.it</a>.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>

<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>The detailed description of the research themes can be found at the following link: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p> <p>The template for the research project can be found at the following link: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p> <p>For further informations about the research themes please contact: Prof. Fulvio Mastrogiovanni: <a href="mailto:fulvio.mastrogiovanni@unige.it">fulvio.mastrogiovanni@unige.it</a></p>

**Course in: BIOENGINEERING AND ROBOTICS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)****Curriculum: MARINE TECHNOLOGIES (CODICE 8178)**

<b>Coordinator:</b> Cannata Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant from DIBRIS funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	<p>Candidates must submit:</p> <ul style="list-style-type: none"> <li>- the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator.</li> <li>- the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: <a href="http://phd.dibris.unige.it/biorob/index.php/howto-apply">http://phd.dibris.unige.it/biorob/index.php/howto-apply</a>);</li> <li>- a project work related to one (or more) of the research themes offered (please use the template available at the website: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>);</li> <li>- a curriculum vitae et studiorum including all the technical-scientific studies/activities already done and pertinent to the doctoral programme;</li> <li>- Name(s), status and place of employment of the referee(s) - from one and up to three- chosen by the candidates to support their candidature.</li> </ul>
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1. Marine robotics team for area exploration and monitoring</li> <li>2. Modelling and control of hybrid cable-thruster actuated ROVs</li> <li>3. Obstacle detection, tracking and avoidance in maritime environments</li> </ol> <p>The detailed description of the research themes can be found at the following link: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: <a href="mailto:phd.biorob@dibris.unige.it">phd.biorob@dibris.unige.it</a>.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>The detailed description of the research themes can be found at the following link: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p> <p>The template for the research project can be found at the following link: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a></p> <p>For further informations about the research themes please contact: Prof. Enrico Simetti <a href="mailto:enrico.simetti@unige.it">enrico.simetti@unige.it</a></p>

**Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE****Curriculum: BIOIMAGING (CODE 8180)**

<b>Coordinator:</b> Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant cofounded by MIUR/DISSAL, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 – 2.00 pm at the Advanced Biotechnologies Centre (Centro di Biotecnologie Avanzate) Library, First floor (Largo R. Benzi, n. 10 - 16132 Genova).  The interview may also take place electronically, on candidates' request, by contacting the doctoral secretarial staff ( <a href="mailto:enrico.zeraschi@unige.it">enrico.zeraschi@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Further information on how to present qualifications/publications</b>	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12) together with the qualifications. The project will be evaluated by the commission together with the qualifications and discussed during the oral interview.
<b>Exam Syllabus</b>	Interview on the titles and on the research project presented.
<b>Research Themes</b>	Molecular Bioimaging. Biomedical imaging. Computational bioimaging.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: <a href="mailto:rodolfo.quarto@unige.it">rodolfo.quarto@unige.it</a> In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - <a href="mailto:rodolfo.quarto@unige.it">rodolfo.quarto@unige.it</a>  Curriculum contact person (to whom to request scientific information): Prof. Gianmario Sambuceti - Department of Health Sciences - Tel. 0105552026 - <a href="mailto:gianmario.sambuceti@unige.it">gianmario.sambuceti@unige.it</a>  Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - <a href="mailto:enrico.zeraschi@unige.it">enrico.zeraschi@unige.it</a>

**Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE****Curriculum: CELLULAR AND MOLECULAR BIOTECHNOLOGIES (CODE 8181)**

<b>Coordinator:</b> Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 – 2.00 pm at the Advanced Biotechnologies Centre (Centro di Biotecnologie Avanzate) Library, 1st Floor (Largo R. Benzi, n. 10 - 16132 Genova).  The interview may also take place electronically, on candidates' request, by contacting the doctoral secretarial staff ( <a href="mailto:enrico.zeraschi@unige.it">enrico.zeraschi@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Further information on how to present qualifications/publications</b>	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12) together with the qualifications. The project will be evaluated by the commission together with the qualifications and discussed during the oral interview.
<b>Exam Syllabus</b>	Interview on the titles and on the research project presented.
<b>Research Themes</b>	Innovative diagnostics. Therapeutic treatments. New pharmaceutical products. Gene therapy. Cell therapies. Immunosuppressive therapies. Anticancer therapies.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: rodolfo.quarto@unige.it In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - rodolfo.quarto@unige.it  Curriculum contact person (to whom to request scientific information): Prof. Aldo Pagano - Department of Experimental Medicine - Tel. 0105558213 - aldo.pagano@unige.it  Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it

**Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE****Curriculum: TRANSLATIONAL SURGERY (CODE 8182)**

<b>Coordinator:</b> Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
<b>Places:</b> 3 – <b>Grants:</b> 1 (*)	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 – 2.00 pm at the Advanced Biotechnologies Centre (Centro di Biotecnologie Avanzate) Library, first floor, Largo R.Benzi 10, Genova.  The interview may also take place electronically, on candidates' request, by contacting the doctoral secretarial staff ( <a href="mailto:enrico.zeraschi@unige.it">enrico.zeraschi@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Further information on how to present qualifications/publications</b>	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12) together with the qualifications. The project will be evaluated by the commission together with the qualifications and discussed during the oral interview.
<b>Exam Syllabus</b>	Interview on the titles and on the research project presented..
<b>Research Themes</b>	Experimental diagnostic and therapeutic approaches in general, specialist, anesthesiology and integrated diagnostic methodologies.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: <a href="mailto:rodolfo.quarto@unige.it">rodolfo.quarto@unige.it</a> In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - <a href="mailto:rodolfo.quarto@unige.it">rodolfo.quarto@unige.it</a>  Curriculum contact person (to whom to request scientific information): Prof. Marco Frascio - Department of Surgical Sciences and Integrated Diagnostics - Tel. 0103537217 - <a href="mailto:mfrascio@unige.it">mfrascio@unige.it</a>  Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - <a href="mailto:enrico.zeraschi@unige.it">enrico.zeraschi@unige.it</a>

**Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE****Curriculum: REGENERATIVE MEDICINE AND TISSUE ENGINEERING (CODE 8183)**

<b>Coordinator:</b> Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
<b>Places:</b> 2 (°) – <b>Grants:</b> 1 (*)	
(*) 1 grant from MIUR/DIMES, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved to employee of Ospedale San Martino	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 – 2.00 pm at the Advanced Biotechnologies Centre (Centro di Biotecnologie Avanzate) Library, First floor, Largo R.Benzi 10, Genova  The interview may also take place electronically, on candidates' request, by contacting the doctoral secretarial staff ( <a href="mailto:enrico.zeraschi@unige.it">enrico.zeraschi@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Further information on how to present qualifications/publications</b>	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12) together with the qualifications. The project will be evaluated by the commission together with the qualifications and discussed during the oral interview.
<b>Exam Syllabus</b>	Interview on the titles and on the research project presented.
<b>Research Themes</b>	Cell therapy. Tissue engineering. Development of biocompatible, biodegradable and capable of integrating molecules and cells biomaterials. Delivery of growth factors, cytokines and other pharmacologically active molecules. Immunology and transplant biology. Immunotherapy. Gene therapy.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: <a href="mailto:rodolfo.quarto@unige.it">rodolfo.quarto@unige.it</a> In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - <a href="mailto:rodolfo.quarto@unige.it">rodolfo.quarto@unige.it</a>  Curriculum contact person (to whom to request scientific information): Prof. Paolo Giannoni - Department of Experimental Medicine - Tel. 0105558436 - <a href="mailto:paolo.giannoni@unige.it">paolo.giannoni@unige.it</a>  Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - <a href="mailto:enrico.zeraschi@unige.it">enrico.zeraschi@unige.it</a>



**Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE****Curriculum: TRANSLATIONAL AND PRECISION MEDICINE (CODE 8184)**

<b>Coordinator:</b> Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
<b>Places:</b> 2 (°) – <b>Grants:</b> 1 (*)	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved for the employees of Ospedale Galliera	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 – 2.00 pm at the Advanced Biotechnologies Centre (Centro di Biotecnologie Avanzate) Library, First floor, Largo R.Benzi 10, Genova  The interview may also take place electronically, on candidates' request and if necessary due to health situation, by contacting the doctoral secretarial staff ( <a href="mailto:enrico.zeraschi@unige.it">enrico.zeraschi@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Further information on how to present qualifications/publications</b>	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12) together with the qualifications. The project will be evaluated by the commission together with the qualifications and discussed during the oral interview.
<b>Exam Syllabus</b>	Interview on the titles and on the research project presented.
<b>Research Themes</b>	Diseases related to eye aging. Chronic degenerative pathologies. Cancer biology and innovative therapeutic approaches. Biological effects of the secretoma.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: <a href="mailto:rodolfo.quarto@unige.it">rodolfo.quarto@unige.it</a> In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator: Prof. Rodolfo Quarto - Department of Experimental Medicine - Tel. 0105558240 - <a href="mailto:rodolfo.quarto@unige.it">rodolfo.quarto@unige.it</a>  Curriculum contact person (to whom to request scientific information): Prof. Lucia Del Mastro Policlinico San Martino Hospital - IRCCS - Tel. 0105558908 - <a href="mailto:lucia.delmastro@hsanmartino.it">lucia.delmastro@hsanmartino.it</a>  Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - <a href="mailto:enrico.zeraschi@unige.it">enrico.zeraschi@unige.it</a>

**Course in: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING**

**Curriculum: FLUID DYNAMICS AND ENVIRONMENTAL ENGINEERING (CODE 8186)**

<b>Coordinator:</b> Roberta Massabò	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale – DICCA)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*)	
(*) 1 funded by Università di Genova. The gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (*) 1 funded by DICCA, The gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	10.7.2020 – 9.00 am at the Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale – DICCA) Biblioteca Baldacci via Montallegro 1, Genova.  Should there be a high number of candidates, the interviews will continue on the following day.  The interview may also take place electronically, on candidates' request or if necessary due to health situation. Candidates requesting online interview must contact the doctoral secretarial staff ( <a href="mailto:dottorato.dicca@unige.it">dottorato.dicca@unige.it</a> ) and Prof. Rodolfo Repetto ( <a href="mailto:rodolfo.repetto@unige.it">rodolfo.repetto@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Further information on how to present qualifications/publications</b>	The application (curriculum) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees). Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career.  The knowledge of foreign languages proved by an international certificate (TOEFL, CPE, CAE, FCE, ...) and attached to the cv would be an asset.
<b>Exam Syllabus</b>	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
<b>Research Themes</b>	The research themes are those of the curriculum in “Fluid Dynamics and Environmental Engineering”; they are described in details on the course web page: <a href="http://dottorato.dicca.unige.it/eng/fluamb/">http://dottorato.dicca.unige.it/eng/fluamb/</a> The research project (10 pages max) must include the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the aims of the research activity.
<b>Information on references</b>	Candidates must choose at least one and no more than three referees to support their candidature. One of the referees must be the member of the curriculum committee ( <a href="http://dottorato.dicca.unige.it/eng/info/staff/comitatofluamb.html">http://dottorato.dicca.unige.it/eng/info/staff/comitatofluamb.html</a> ) with whom the research project has been agreed. The referees must be university professors or experts in the subject. The reference letter must be sent by the referee, within the deadline of the public notice, to the doctoral secretariat at <a href="mailto:dottorato.dicca@unige.it">dottorato.dicca@unige.it</a> If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
<b>Foreign Languages</b>	English
<b>Further Information</b>	<a href="http://dottorato.dicca.unige.it/eng/">http://dottorato.dicca.unige.it/eng/</a>  Prof. Rodolfo Repetto <a href="mailto:rodolfo.repetto@unige.it">rodolfo.repetto@unige.it</a>

**Course in: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING****Curriculum: CHEMICAL, MATERIALS AND PROCESS ENGINEERING (CODE 8185)**

<b>Coordinator:</b> Roberta Massabò	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale – DICCA)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*)	
(*) 1 grant funded by Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by DICCA; the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient. (*) 1 grant cofunded by MIUR/DICCA; the gross annual amount of the scholarship is € 15.343,28 including social security contributions charged to the scholarship recipient.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	10.7.2020 – 9 am at the Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale – DICCA), biblioteca Baldacci, via Montallegro 1, Genova.  Should there be a high number of candidates, the interviews will continue on the following day.  The interview may also take place electronically, on candidates' request or if necessary due to health situation. Candidates requesting online interview must contact the doctoral secretarial staff ( <a href="mailto:dottorato.dicca@unige.it">dottorato.dicca@unige.it</a> ) and prof. Attilio Converti ( <a href="mailto:converti@unige.it">converti@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Further information on how to present qualifications/publications</b>	The application (curriculum) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees). Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career.
<b>Exam Syllabus</b>	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
<b>Research Themes</b>	The research themes are those of the curriculum in “Chemical, Materials and Process Engineering”; they are described in details on the course web page: <a href="http://dottorato.dicca.unige.it/eng/chmatpr/">http://dottorato.dicca.unige.it/eng/chmatpr/</a> The research project (10 pages max) must include the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the aims of the research activity.
<b>Information on references</b>	Candidates must choose at least one and no more than three referees to support their candidature. One of the referees must be the member of the curriculum committee ( <a href="http://dottorato.dicca.unige.it/eng/info/staff/comitatochmatpr.html">http://dottorato.dicca.unige.it/eng/info/staff/comitatochmatpr.html</a> ) with whom the research project has been agreed. The referees must be university professors or experts in the subject. The reference letter must be sent by the referee, within the deadline of the public notice, to the doctoral secretariat at <a href="mailto:dottorato.dicca@unige.it">dottorato.dicca@unige.it</a> If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
<b>Foreign Languages</b>	English The knowledge of foreign languages proved by an international certificate (TOEFL, CPE, CAE, FCE, ...) and attached to the cv would be an asset.
<b>Further Information</b>	<a href="http://dottorato.dicca.unige.it/eng/">http://dottorato.dicca.unige.it/eng/</a>  Prof. Attilio Converti <a href="mailto:converti@unige.it">converti@unige.it</a>

**Course in: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING**

**Curriculum: STRUCTURAL AND GEOTECHNICAL ENGINEERING, MECHANICS AND MATERIALS (CODE 8187)**

<b>Coordinator:</b> Roberta Massabò	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale – DICCA)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	<p>10.7.2020 – 9 am at the Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale – DICCA), Biblioteca Baldacci via Montallegro 1, Genova.</p> <p>Should there be a high number of candidates, the interviews will continue on the following day.</p> <p>The interview may also take place electronically, on candidates' request or if necessary due to health situation. Candidates requesting online interview must contact the doctoral secretarial staff (<a href="mailto:dottorato.dicca@unige.it">dottorato.dicca@unige.it</a>) and Prof. Maria Pia Repetto (<a href="mailto:repetto@dicca.unige">repetto@dicca.unige</a>) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.</p>
<b>Further information on how to present qualifications/publications</b>	<p>The application (curriculum) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees). Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career.</p> <p>The knowledge of foreign languages proved by an international certificate (TOEFL, CPE, CAE, FCE, ...) and attached to the cv would be an asset.</p>
<b>Exam Syllabus</b>	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
<b>Research Themes</b>	<p>The research themes are those of the curriculum in “Structural and Geotechnical Engineering, Mechanics and Materials”; they are described in details on the course web page: <a href="http://dottorato.dicca.unige.it/eng/stmatgeo/">http://dottorato.dicca.unige.it/eng/stmatgeo/</a></p> <p>The research project (10 pages max) must include the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the aims of the research activity.</p>
<b>Information on references</b>	<p>Candidates must choose at least one and no more than three referees to support their candidature. One of the referees must be the member of the curriculum committee (<a href="http://dottorato.dicca.unige.it/eng/info/staff/comitatostmatgeo.html">http://dottorato.dicca.unige.it/eng/info/staff/comitatostmatgeo.html</a>) with whom the research project has been agreed. The referees must be university professors or experts in the subject. The reference letter must be sent by the referee, within the deadline of the public notice, to the doctoral secretariat at <a href="mailto:dottorato.dicca@unige.it">dottorato.dicca@unige.it</a></p> <p>If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The name, status and current position of the referees chosen by the candidate must be stated in the application.</p> <p>Reference letters that are not presented as requested will not be taken into consideration.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p><a href="http://dottorato.dicca.unige.it/eng/">http://dottorato.dicca.unige.it/eng/</a></p> <p>Prof. Maria Pia Repetto <a href="mailto:repetto@dicca.unige">repetto@dicca.unige</a></p>

**Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION**

**In agreement with the University of Turin**

**Curriculum: THE ARTS, PERFORMING ARTS AND MULTIMEDIA TECHNOLOGIES (CODE 8189)**

<b>Coordinator:</b> Adorni Giovanni	
Department of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*)	
(*) 2 grants funded by Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 10.00 am at the Dipartimento di Lingue e Culture Straniere, p.zza S. Sabina 2 Genova. The room will be notified one the web site of the phd course (www.digitalhumanities-phd.it) The interview may also take place electronically if necessary due to health situation. Information on the interview will be published on the phd course website (www.digitalhumanities-phd.it).
<b>Further information on how to present qualifications/publications</b>	Together with their qualifications, candidates must include a research project on Digital Humanities pertinent and consistent with the themes and objectives specified in the "Research themes" section.  The project must be structured in the following sections: - title; - summary; - objectives of the research project; - analysis of existing literature on the research topic; - research problems to be addressed and to be answered; - methodologies that are expected to be used to achieve the objectives; - expected results at the end of the three-year research period.  The project will be evaluated according to the following points: • clarity of objectives, hypotheses and methodological approach to research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • solid starting bibliographic bases.  The candidate must also indicate potential foreign partner locations/research centers to possibly support the development of his research.  The project must be max 4000 words long plus the bibliography.
<b>Research Themes</b>	1 - Figurative and performing arts with the use of virtual and augmented reality. Immersive and narrative tools and contents for architectural environments and wide territorial areas but also for social platforms.  2 - Didactic of the figurative and performing arts. Contents and spaces for virtual classrooms, to be used in the absence and presence of the teacher. Use of drawing, photography, video animation and storytelling in e-learning platforms.  3 - "Map of pictorial navigation": Projects on virtual travel in the contemporary world through the tools of diffusion and popularization of cultural heritage. Networks, databases and virtual museums. Reflection on the knowledge of artistic heritage and entertainment as a contribution to the ongoing digital transformation.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature.  These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Ph.D program at the following address: giovanni.adorni@unige.it, and copy to: simone.torsani@unige.it and luisa.zito@unige.it.  The name, status and service place of the referees chosen by the candidates must be also stated

	in their applications.
<b>Foreign Languages</b>	Candidates must show their knowledge of at least one foreign language, besides their mother tongue, chosen from English, French, Spanish and German. Foreign candidates must show their knowledge of Italian.
<b>Further Information</b>	The contact person in administration for the Ph.D. course is Mrs. Luisa Zito: luisa.zito@unige.it.

**Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION**

**In agreement with the University of Turin**

**Curriculum: LANGUAGES, LITERATURES, FOREIGN CULTURES AND TECHNOLOGIES (CODE 8190)**

<b>Coordinator:</b> Adorni Giovanni	
Department of modern languages and cultures (Dipartimento di Lingue e culture moderne – DLCM)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*)	
(*) 2 grants funded by Università di Torino, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 17.500.	
At the end of the doctoral course, a joint qualification will be awarded by both the Universities of Genova and Turin.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 – 9.00 am presso il Dipartimento di Lingue e Letterature Straniere e Culture Moderne dell'Università degli Studi di Torino, Torino. The room will be notified one the web site of the phd course ( <a href="http://www.digitalhumanities-phd.it">www.digitalhumanities-phd.it</a> ) The interview may also take place electronically if necessary due to health situation. Information on the interview will be published on the phd course website ( <a href="http://www.digitalhumanities-phd.it">www.digitalhumanities-phd.it</a> ).
<b>Further information on how to present qualifications/publications</b>	Together with their qualifications, candidates must include a research project on Digital Humanities pertinent and consistent with the themes and objectives specified in the "Research themes" section.  The project must be structured in the following sections: - title; - summary; - objectives of the research project; - analysis of existing literature on the research topic; - research problems to be addressed and to be answered; - methodologies that are expected to be used to achieve the objectives; - expected results at the end of the three-year research period.  The project will be evaluated according to the following points: • clarity of objectives, hypotheses and methodological approach to research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • solid starting bibliographic bases.  The candidate must also indicate potential foreign partner locations/research centers to possibly support the development of his research.  The project must be max 4000 words long plus the bibliography.
<b>Research Themes</b>	1 - Studies concerning French Literature from XVIIth to XXth century, based on historical and philological approaches, original researches in archives and libraries and digital technologies, culminating in multimedia and on-line products.  2. Critical and theoretical inquiry about how the digital world and new multimodal textual forms fostered by the new media interact with: a) migration narratives in the literatures in English, b) anglophone postcolonial literature, c) and within the new “eco-digital humanities” which comprehend new public and private actions and narratives concerned with the environment as voiced through the “social media” and the web.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature.  These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Ph.D program at the following address: <a href="mailto:giovanni.adorni@unige.it">giovanni.adorni@unige.it</a> , and copy to: <a href="mailto:gabriella.bosco@unito.it">gabriella.bosco@unito.it</a> and <a href="mailto:luisa.zito@unige.it">luisa.zito@unige.it</a> .  The name, status and service place of the referees chosen by the candidates must be also

	stated in their applications.
<b>Foreign Languages</b>	Candidates must show their knowledge of at least one foreign language, besides their mother tongue, chosen from English and French. Foreign candidates must show their knowledge of Italian.
<b>Further Information</b>	The contact person in administration for the Ph.D. course is Mrs. Luisa Zito: luisa.zito@unige.it.



**Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION**

**In agreement with the University of Turin**

**Curriculum: LANGUAGES, CULTURES AND DIGITAL TECHNOLOGIES (CODE 8191)**

<b>Coordinator:</b> Adorni Giovanni	
Department of modern languages and cultures (Dipartimento di Lingue e culture moderne – DLCM)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant co-funded by MIUR/DLCM, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	8.7.2020 – 10.00 am at the Department of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM), Piazza Santa Sabina 2, Genova. The room will be notified one the web site of the phd course ( <a href="http://www.digitalhumanities-phd.it">www.digitalhumanities-phd.it</a> ) The interview may also take place electronically if necessary due to health situation. Information on the interview will be published on the phd course website ( <a href="http://www.digitalhumanities-phd.it">www.digitalhumanities-phd.it</a> ).
<b>Further information on how to present qualifications/publications</b>	Together with their qualifications, candidates must include a research project on Digital Humanities pertinent and consistent with the themes and objectives specified in the "Research themes" section.  The project must be structured in the following sections: - title; - summary; - objectives of the research project; - analysis of existing literature on the research topic; - research problems to be addressed and to be answered; - methodologies that are expected to be used to achieve the objectives; - expected results at the end of the three-year research period.  The project will be evaluated according to the following points: • clarity of objectives, hypotheses and methodological approach to research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • solid starting bibliographic bases.  The candidate must also indicate potential foreign partner locations/research centers to possibly support the development of his research.  The project must be max 4000 words long plus the bibliography.
<b>Research Themes</b>	1 - Digital technologies in support of linguistic research (lexicography, terminology, speech analysis, translation and interpretation, subtitling) and literary research (in a diachronic and synchronic perspective, on specific literary genres, on socio-literary issues, on intermediation): development of multimedia and network models and products, corpora analysis etc.  2 - Digital technologies to support language teaching (methodology for distance language education, MOOC, autonomous learning through technologies, Mobile-assisted language learning, Technology enhanced learning); digital tools for evaluation and verification (adaptive, remote tests, applications for the evaluation of texts in L2) and technologies for research on language learning (corpora of learners and survey methods, quantum / qualitative analysis supported by the computer).  3 - Computational linguistics for text analysis, information extraction, classification and interpretation of contents and their relationships, as a basis for the development of conversational interfaces, intelligent digital resources (e.g., MOOCs and intelligent texts ), personalized learning paths, for linguistic simplification and the creation of annotated resources.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their

	<p>candidature.</p> <p>These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Ph.D program at the following address: <a href="mailto:giovanni.adorni@unige.it">giovanni.adorni@unige.it</a>, and copy to: <a href="mailto:ilaria.torre@unige.it">ilaria.torre@unige.it</a> and <a href="mailto:luisa.zito@unige.it">luisa.zito@unige.it</a>.</p> <p>The name, status and service place of the referees chosen by the candidates must be also stated in their applications.</p>
<b>Foreign Languages</b>	<p>Candidates must show their knowledge of at least one foreign language, besides their mother tongue, chosen from English, French, Spanish and German. Foreign candidates must show their knowledge of Italian.</p>
<b>Further Information</b>	<p>The contact person in administration for the Ph.D. course is Mrs. Luisa Zito: <a href="mailto:luisa.zito@unige.it">luisa.zito@unige.it</a>.</p>

**Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION**

**In agreement with Università di Torino**

**Curriculum: LINGUISTICS, APPLIED LINGUISTICS AND ONOMASTICS (CODE 8192)**

<b>Coordinator:</b> Adorni Giovanni	
Department of modern languages and cultures (Dipartimento di Lingue e culture moderne – DLCM)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant funded by Università di Torino, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 17.500.	
At the end of the doctoral course, a joint qualification will be awarded by both the Universities of Genova and Torino	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 - 3.00 pm Dipartimento di Lingue e Letterature Straniere e Culture Moderne dell'Università degli Studi di Torino, Torino. The room will be notified one the web site of the phd course ( <a href="http://www.digitalhumanities-phd.it">www.digitalhumanities-phd.it</a> ) The interview may also take place electronically if necessary due to health situation. Information on the interview will be published on the phd course website ( <a href="http://www.digitalhumanities-phd.it">www.digitalhumanities-phd.it</a> ).
<b>Further information on how to present qualifications/publications</b>	Together with their qualifications, candidates must include a research project on Digital Humanities pertinent and consistent with the themes and objectives specified in the "Research themes" section.  The project must be structured in the following sections: - title; - summary; - objectives of the research project; - analysis of existing literature on the research topic; - research problems to be addressed and to be answered; - methodologies that are expected to be used to achieve the objectives; - expected results at the end of the three-year research period.  The project will be evaluated according to the following points: • clarity of objectives, hypotheses and methodological approach to research; • originality and innovativeness of the proposal with respect to the reference literature; • clear feasibility of the timing of the work phases; • solid starting bibliographic bases.  The candidate must also indicate potential foreign partner locations/research centers to possibly support the development of his research. The project must be max 4000 words long plus the bibliography.
<b>Research Themes</b>	Crosslinguistic influence in second language acquisition: text and discourse. The research project is expected to explore pragmatic/prosody/syntax interfaces in dialogical and monological speech within a functional framework. The research project should include data to be studied in a crosslinguistic perspective (Italian native speakers and non-native with different L1). The research will be carried out in cooperation with an European network and must therefore include learners native speakers of at least two of the following languages: French, English, and German (see section "Further information").
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature.  These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Ph.D program at the following address: <a href="mailto:giovanni.adorni@unige.it">giovanni.adorni@unige.it</a> , and copy to: <a href="mailto:ceciliamaria.andorno@unito.it">ceciliamaria.andorno@unito.it</a> and <a href="mailto:luisa.zito@unige.it">luisa.zito@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be also stated in their applications.
<b>Foreign Languages</b>	Candidates must show their knowledge of at least two foreign languages chosen from English, French and German. Foreign candidates must show their knowledge of Italian.
<b>Further Information</b>	The contact person in administration for the Ph.D. course is Mrs. Luisa Zito: <a href="mailto:luisa.zito@unige.it">luisa.zito@unige.it</a> .

Course in: LAW STUDIES

Curriculum: PHILOSOPHY OF LAW AND HISTORY OF LEGAL CULTURE (CODE 8193)

<b>Coordinator:</b> Ivaldi Paola	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*)	
(*) 2 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	From the CV and other documents enclosed the following data should result: a) University degree and the final note or qualification thereof; b) any other post-lauream degree (like, e.g., Master degrees); c) publications concerning one or more of the research topics of the present Curriculum, if any; d) research experiences and research and educational activities, if any.
<b>Exam syllabus</b>	Candidates must submit a research project (doc format, maximum 10000 characters, spaces and essential bibliographical references included, under penalty of exclusion) on a research topic singled out in the following box. The project must contain, under penalty of exclusion, a clear statement of the topic, goals, and stages of the research activity, along with essential bibliographical references. The research project can be written, on the candidate's choice, in Italian, French, English, or Spanish.
<b>Research Themes</b>	Legal Philosophies Legal Reasoning Theories of Legal Interpretation Theory of Legal Sources General Theory of Law and State Constitutional Interpretation Logic and Legal Argumentation Juridical Enlightenment and Codification Ideologies Philosophies of Punishment Epistemology and Theory of Legal Science Natural Law and Legal Positivism Feminist Theories of Law Theory of Norms and Legal Systems Theory of Legal Language Equality, Poverty, Welfare State, Regulation and Deregulation History and Theories of Subjective Rights Law, Constitutions and Constitutionalism History and Theories of Legal Dogmatics Bioethics and Legal Philosophy Sociology of Law and History of Legal-Sociological Thought History of Legal Culture and Thought Law and Culture Law and Social Change

<b>Information on references</b>	<p>Candidates must provide up to three letters of reference (minimum one) supporting their application.</p> <p>The letters must be written by Academics, or Experts, in the research topics of the Curriculum. They will send their letter of reference, within the deadline established in the Call, directly to the following address: <a href="mailto:pierluigi.chiassoni@unige.it">pierluigi.chiassoni@unige.it</a>, <a href="mailto:stefania.vircillo@giuri.unige.it">stefania.vircillo@giuri.unige.it</a></p> <p>In their application form, candidates must point out the name, the qualification, and the workplace of the persons that will write reference letters for them.</p>
<b>Further Information</b>	<p>Contact person for the curriculum  Prof. Pierluigi Chiassoni  <a href="mailto:pierluigi.chiassoni@unige.it">pierluigi.chiassoni@unige.it</a></p> <p>Contact person in administration  Dott. Stefania Vircillo  <a href="mailto:stefania.vircillo@giuri.unige.it">stefania.vircillo@giuri.unige.it</a></p>

**Course in: LAW STUDIES**

**Curriculum: INTERNATIONAL LAW - COMMERCIAL, EUROPEAN UNION AND INTERNATIONAL LAW (CODE 8196)**

<b>Coordinator:</b> Ivaldi Paola	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
<b>Places:</b> 4 (°) – <b>Grants:</b> 2 (*)	
(*) 2 grant from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) of which 2 reserved to scholarship holders of foreign Countries.	
<b>Modalità</b>	<b>QUALIFICATIONS/PUBLICATIONS AND INTERVIEW</b>
<b>Interview</b>	13.7.2020 – 12.00 am at the Department of Law Studies (Dipartimento di Giurisprudenza), former Section of International Law Studies, 3rd floor (n. 7B), via Balbi 22, Genova. The interview may also take place electronically (Skype/Teams), on candidates' request or if or on disposal of the commission. In case the commission disposes of electronic interviews, candidates will receive the skype/Team contact address two weeks before the date of the interview, otherwise candidates who want to have an online interview, will have to inform the curriculum coordinator Prof. Lorenzo Schiano di Pepe (Lorenzo.Schianodipepe@unige.it) by seven days before the interview.
<b>Further information on how to present qualifications/publications</b>	Qualifications include the information contained in the application and in the curriculum vitae et studiorum, the research project, any further qualifications. The application and attached documents may be written in Italian or English, French or Spanish.
<b>Exam Syllabus</b>	The interview consists: - an in-depth examination of the candidate's skills in relation to the key issues relating, at candidate's choice, to one of the following areas: international law, European Union law and commercial law, with particular regard to the research topics set out below; - in the discussion of the research project presented.
<b>Research Themes</b>	Within the curriculum in international law, European Union law and commercial law there are three research themes, substantially corresponding to the disciplinary "areas" (and related "competences") that are represented in it. These themes are part of a unitary framework, characterized by the sharing of a system of sources known as "multiple sources", by the presence of consolidated systems of protection and by the multidisciplinary approach. The first research theme concerns the most significant recent developments in international law (both public and private), analyzed from the perspective of the extension of the rights guaranteed to individuals and their "effective" judicial protection. The same perspective is adopted with reference to the European Union's legal system, of which the profiles of institutional as well as material law are highlighted (single market and other areas of competence of the Union, including those with external relevance). With respect to commercial law, again within the framework of the European Union's harmonization regulations, specific attention is paid to the regulation of banking, financial and insurance intermediaries and the corporate governance of listed companies.
<b>Information on references</b>	Candidates must choose no less than one and no more than three contacts to support their application. These contacts must be academics or experts in the field. It will be the responsibility of the referees to send the letters of reference, within the deadline of the call, to Prof. Lorenzo Schiano di Pepe, to the following e-mail address: Lorenzo.Schianodipepe@unige.it as well as to the administrative contact, Dr. M. Stefania Lavezzo: 55563@unige.it.  In the application form, candidates must specify the name, qualification and place of employment of the contact persons chosen by them.
<b>Foreign Languages</b>	English
<b>Further Information</b>	During the three-year period (and, preferably, during the second year) PhD students must spend at least 12 months abroad, or in Italy at an international training center, to carry out in-depth studies in their respective fields of research.  Contact person for the curriculum: Prof. Lorenzo Schiano di Pepe Lorenzo.Schianodipepe@unige.it  Administrative contact person: Dr. M. Stefania Lavezzo e-mail: 55563@unige.it

**Course in: LAW STUDIES****Curriculum: PRIVATE LAW - LABOUR, PRIVATE, PRIVATE COMPARATIVE AND CIVIL PROCEDURAL LAW (CODE 8194)**

<b>Coordinator:</b> Ivaldi Paola	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*)	
(*) 1 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grants cofounded by MIUR/DDG, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	9.7.2020 – 10.00 am Video conferencing interview (Teams).  In order to ensure full publicity and uniqueness of the session of the Evaluation Commission candidates who, for reasons not dependent on the instrumentation of the Commissioners, are unable to connect and maintain the useful connection for his interview, during the time span of the same session, will be considered absent.
<b>Further information on how to present qualifications/publications</b>	All relevant degrees need to flow from the curriculum vitae et studiorum, and the research project. The submission and other required materials attached could be written in Italian, English, French or Spanish.
<b>Exam Syllabus</b>	The interview will focus on:  - a complete assessment of subjects proposed in the curriculum, based on the candidate choice, between the following areas: private law (contracts and torts); private comparative law; labor law, civil procedure, consistent with the research areas (see next section) - the research project discussion
<b>Research Themes</b>	Within the academic curriculum is centered on 4 research areas, substantially corresponding to the discipline “areas” (and respective “competences”) therein represented.  The above-mentioned areas are placed in a unified framework, characterized by common sources of law, by a multilevel system and by the interdisciplinary approach.  The first research area reflects the evolution of the current private law legal framework, considering a new legal framework and the comparatist analysis. Within this perspective, the evolutive lines of the system will be analyzed with special regard to two classic themes in private law, such as the contract discipline and the contractual liability issues.  The second theme rotates towards the new developments of private comparative law with special regard to property law, secured transactions, community property regimes, and NGO.  The third area focuses on labor law and industrial relations, with special regard to the historic evolution and the recent reforms that affected the legal framework, within the broader scheme of EU law and social politics.  The fourth area centers on the analysis of the current scenario of civil procedure and litigation – also in a comparative perspective – pre-trial/trial/evidence phase and related issues.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the call, to the chair of the curriculum committee, Prof. Andrea Fusaro (Andrea.Fusaro@unige.it), as well to the administrative contact person, Dott.ssa M. Stefania Lavezzo: 55563@unige.it.  In the application for admission, candidates must specify the name, qualification and place of employment of the contact persons they have chosen.
<b>Foreign Languages</b>	English
<b>Further Information</b>	During the three-year period (and, preferably, in the second year), PhD students must spend abroad, or in Italy at international training centers, for a total period of at least 6 months

(possibly not consecutive, but in any case - for each fraction - of adequate consistency) to carry out in-depth activities in the respective research areas.

Chair of the curriculum committee:

Prof. Andrea Fusaro  
andrea.fusaro@unige.it

Administrative contact person:

Dott.ssa M. Stefania Lavezzo  
e-mail: 55563@unige.it



**Course in: LAW STUDIES**

**Curriculum: PUBLIC LAW - ADMINISTRATIVE, CONSTITUTIONAL, CRIMINAL, CRIMINAL PROCEDURAL AND TAX LAW (CODE 8195)**

<b>Coordinator:</b> Ivaldi Paola	
Department of Law Studies (Dipartimento di Giurisprudenza – DDG)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Modalità</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	2.7.2020 – 8.30 am Video conferencing interview (Teams).  In order to ensure full publicity and uniqueness of the session of the Evaluation Commission candidates who, for reasons not dependent on the instrumentation of the Commissioners, are unable to connect and maintain the connection for the all interview, during the time span of the same session, will be considered absent.
<b>Exam Syllabus</b>	The interview is designed to assess the applicant’s ability to develop his/her research proposal. In addition, the applicant will be expected to show evidence of their general knowledge about the subject area of the PhD course as well of his/her academic potential.  The research proposal shall focus on topics related to the research fields indicated in the appropriate section of the call for application. The research project is requested to include: the thematic area of interest (administrative law, constitutional law and comparative public law, criminal law, criminal procedure law, tax law), title of the project, state of the art, synthetic bibliography, main research question(s), planned work, expected results.
<b>Research Themes</b>	The proposal submitted by the candidate must relate to one of the following thematic areas:  Constitutional law Historical-institutional evolution of the contemporary state; theory of the forms of state and forms of government; constitutional review; EU constitutionalization process and national and supranational protection of fundamental rights system; domestic, EU and international sources of law;  Administrative law - issues related to recent reforms in the area of administrative organization and administrative activity, also with reference to the positions taken by the jurisprudence; - topical issues in administrative justice;  Criminal law Review of penal code (issues of general and special part), even in the prospective of unification and empowerment of international cooperation tools; Review of sanctioning system;  Criminal procedure law Topics related to recent reforms by Parliament or recent case law (of National or European Courts); comparative and European criminal procedural law (with preference for the analysis of the so-called Stockholm Directives); technological development and criminal proceedings (with particular reference to issues concerning artificial intelligence);  Tax Law Italian Tax system. Italian fiscal administrative procedures and fair trial in tax matters. International tax law. European Union tax system. Fight against aggressive tax planning in the EU.
<b>Information on references</b>	No letters of reference are required. Any letters of reference received in any case will not be taken into account for the purposes of scoring.
<b>Foreign Languages</b>	English or French or German or Spanish
<b>Further Information</b>	During the three-year PhD period (preferably during the second year), PhD students must spend a period of time abroad or at higher education institutions of an international nature in Italy, in order to carry out in-depth studies in their respective fields of research; this period must have a total duration of at least 6 months (including non-consecutive periods, but in any case of adequate duration for each fraction).  Administrative contact: Dr. M. Stefania Lavezzo. 55563@unige.it

	Responsible for the curriculum: Prof. Marco Pelissero marco.pelissero@unito.it
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**Course in: ECONOMICS AND POLITICAL ECONOMY (CODE 8197)**

<b>Coordinator:</b> Bottasso Anna	
Department of Economics (Dipartimento di Economia – DIEC)	
<b>Places:</b> 6 – <b>Grants:</b> 6 (*)	
(*) 5 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant from the Foundation of the Italian Institute of Technology (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	1.7.2020 – 9.30 am The interview will take place electronically. Applicants must contact the coordinator and the PhD secretariat by 25 June 2020 to arrange the interview at: bottasso@economia.unige.it dottoratodiec@economia.unige.it
<b>Further information on how to present qualifications/publications</b>	The rankings of qualifications/publications will be published on the Department of Economics Website on 01/07/2019 ( <a href="http://www.economia.unige.it">www.economia.unige.it</a> )
<b>Exam Syllabus</b>	Research project discussion and curriculum vitae presentation. The interview will be in English.
<b>Research Themes</b>	Microeconomics, Macroeconomics, Econometrics, Statistics, Economic History, Political Economy.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Anna Bottasso at the following addresses: <a href="mailto:dottoratodiec@economia.unige.it">dottoratodiec@economia.unige.it</a> , <a href="mailto:bottasso@economia.unige.it">bottasso@economia.unige.it</a> .  The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English

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

**Curriculum: TRANSLATIONAL HAEMATOLOGY (CODE 8198)**

<b>Coordinator:</b> Alessio Nencioni	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	2.7.2020 – 9.00 am - Remote interview
<b>Exam Syllabus</b>	during the interview, the candidate will be evaluated with respect to the following criteria: -Knowledge of the topics to be covered (see Research Themes) -Motivation -Logical thinking -Overall vision -Aptitude to carry out an independent project -Potential for excellence and leadership qualities -Capacity to work in team Knowledge of the English language will be evaluated by a short reading and translation test.
<b>Research Themes</b>	Biological landscape of hematological malignancies (Acute Myeloid Leukemia, Lymphomas, Multiple Myeloma)  Novel therapeutic strategies for clinical management of blood tumors (precision medicine approach)  Multi-Omics Profiling as strategy to analyze tumor heterogeneity Bioinformatics and computational tools used for Next-Generation Analysis in clinical and lab setting
<b>Information on references</b>	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dipartimento di Medicina Interna DIMI, viale Benedetto XV n. 6, (16132 Genova) e-mail: alessio.nencioni@unige.it, ricercadimi@unige.it , to Prof. Roberto Lemoli e-mail: roberto.lemoli@unige.it Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
<b>Foreign Languages</b>	English
<b>Further Information</b>	Reference professors: Prof Roberto Lemoli e-mail: roberto.lemoli@unige.it Michele Cea Email: michele.cea@unige.it

**Course in: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE****Curriculum: CLINICAL PATHOPHYSIOLOGY OF ENDOCRINE AND METABOLIC DISORDERS (CODE 8199)**

<b>Coordinator:</b> Alessio Nencioni	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	3.7.2020 – 9.00 am - Remote interview
<b>Exam Syllabus</b>	During the interview, the candidate will be evaluated with respect to the following criteria: <ul style="list-style-type: none"><li>- Knowledge of the topics to be covered (see Research Themes)</li><li>- Motivation</li><li>- Logical thinking</li><li>- Overall vision</li><li>- Aptitude to carry out an independent project</li><li>- Potential for excellence and leadership qualities</li><li>- Capacity to work in team</li></ul> Knowledge of the English language will be evaluated by a short reading and translation test.
<b>Research Themes</b>	<ul style="list-style-type: none"><li>- Pathophysiology of pituitary secretion, in particular the hypothalamic-somatotropic and prolactinic axis and to the IGF1 system</li><li>- Physiopathology of somatostatin receptors in neuroendocrine and pituitary tumors</li><li>- Epidemiological and clinical aspects of thyroid cancer</li><li>- Cellular mechanisms of action of insulin and other growth factors</li></ul>
<b>Information on references</b>	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dipartimento di Medicina Interna DIMI, viale Benedetto XV n. 6, (16132 Genova) e-mail: <a href="mailto:alessio.nencioni@unige.it">alessio.nencioni@unige.it</a> , <a href="mailto:ricercadimi@unige.it">ricercadimi@unige.it</a> , to Prof Diego Ferone e-mail: <a href="mailto:ferone@unige.it">ferone@unige.it</a> Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
<b>Foreign Languages</b>	English
<b>Further Information</b>	Reference professors:  Prof Diego Ferone e-mail: <a href="mailto:ferone@unige.it">ferone@unige.it</a>  Prof. Davide Maggi <a href="mailto:davide.maggi@unige.it">davide.maggi@unige.it</a>

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

**Curriculum: CLINICAL PATHOPHYSIOLOGY OF RENAL, CARDIOVASCULAR AND ARTERIAL HYPERTENSIVE DISEASES (CODE 8200)**

<b>Coordinator:</b> Alessio Nencioni	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	3.7.2020 – 9.00 am Remote interview
<b>Exam Syllabus</b>	During the interview, the candidate will be evaluated with respect to the following criteria: - Knowledge of the topics to be covered (see Research Themes) - Motivation - Logical thinking - Overall vision - Aptitude to carry out an independent project - Potential for excellence and leadership qualities - Capacity to work in team Knowledge of the English language will be evaluated by a short reading and translation test.
<b>Research Themes</b>	-Hemodynamic and metabolic mechanisms involved in the development of renal and extra-renal organ damage - Cardiovascular and renal risk factors in hypertension, diabetic nephropathy, glomerulonephritis and kidney transplantation. - Atherosclerosis, diabetic nephropathy, chronic kidney disease: role of innate and acquired immune system. - Biology, pathophysiology and epidemiology of heart failure. - Thrombosis and anticoagulation in atrial fibrillation and acute coronary syndromes. - Role of inflammatory mediators in ischemic heart disease, in ischemic stroke, in metabolic diseases and their cardiovascular complications.
<b>Information on references</b>	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dipartimento di Medicina Interna DIMI, viale Benedetto XV n. 6, (16132 Genova) e-mail: <a href="mailto:alessio.nencioni@unige.it">alessio.nencioni@unige.it</a> , <a href="mailto:ricercadimi@unige.it">ricercadimi@unige.it</a> , to Prof. Francesca Chiara Viazzi e-mail: <a href="mailto:francesca.viazzi@unige.it">francesca.viazzi@unige.it</a> , Prof. Pietro Ameri e-mail: <a href="mailto:pietroameri@unige.it">pietroameri@unige.it</a> and Prof. Fabrizio Montecucco email: <a href="mailto:fabrizio.montecucco@unige.it">fabrizio.montecucco@unige.it</a> Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
<b>Foreign Languages</b>	English
<b>Further Information</b>	Reference professors:  Prof.ssa Francesca Chiara Viazzi e-mail: <a href="mailto:francesca.viazzi@unige.it">francesca.viazzi@unige.it</a>  Prof. Pietro Ameri e-mail: <a href="mailto:pietroameri@unige.it">pietroameri@unige.it</a>  Prof. Fabrizio Montecucco email: <a href="mailto:fabrizio.montecucco@unige.it">fabrizio.montecucco@unige.it</a>

**Course in: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE****Curriculum: CLINICAL AND EXPERIMENTAL RESPIRATORY PATHOPHYSIOLOGY (CODE 8201)**

<b>Coordinator:</b> Alessio Nencioni	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 0	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	3.7.2020 – 9.00 am - Remote interview
<b>Exam Syllabus</b>	During the interview, the candidate will be evaluated with respect to the following criteria: - Knowledge of the topics to be covered (see Research Themes) - Motivation - Logical thinking - Overall vision - Aptitude to carry out an independent project - Potential for excellence and leadership qualities - Capacity to work in team Knowledge of the English language will be evaluated by a short reading and translation test.
<b>Research Themes</b>	Immunological treatment of severe asthma and role of biomarkers Pharmacological treatment of Idiopathic Pulmonary Fibrosis (IPF)
<b>Information on references</b>	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dipartimento di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: <a href="mailto:alessio.nencioni@unige.it">alessio.nencioni@unige.it</a> , <a href="mailto:ricercadimi@unige.it">ricercadimi@unige.it</a> and Prof. Giovanni Passalacqua e-mail: <a href="mailto:passalacqua@unige.it">passalacqua@unige.it</a> Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
<b>Foreign Languages</b>	English
<b>Further Information</b>	Contact professors:  Prof. Giovanni Passalacqua <a href="mailto:passalacqua@unige.it">passalacqua@unige.it</a>  Prof.ssa Anna Maria Riccio <a href="mailto:anna.maria.riccio@unige.it">anna.maria.riccio@unige.it</a>

**Course in: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE****Curriculum: ONCOLOGIC GENETICS AND MOLECULAR PATHOLOGY (CODE 8202)**

<b>Coordinator:</b> Alessio Nencioni	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 0	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	2.7.2020 – 9.00 am - Remote interview
<b>Exam Syllabus</b>	During the interview, the candidate will be evaluated with respect to the following criteria: <ul style="list-style-type: none"><li>- Knowledge of the topics to be covered (see Research Themes)</li><li>- Motivation</li><li>- Logical thinking</li><li>- Overall vision</li><li>- Aptitude to carry out an independent project</li><li>- Potential for excellence and leadership qualities</li><li>- Capacity to work in team</li></ul> Knowledge of the English language will be evaluated by a short reading and translation test.
<b>Research Themes</b>	Molecular determinants of carcinogenesis for major skin cancers with a special focus on identification of individuals at risk, prognostic implications and prediction of response to therapy.
<b>Information on references</b>	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dipartimento di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: <a href="mailto:alessio.nencioni@unige.it">alessio.nencioni@unige.it</a> , <a href="mailto:ricercadimi@unige.it">ricercadimi@unige.it</a> , to Prof. Paola Ghiorzo e-mail: <a href="mailto:paola.ghiorzo@unige.it">paola.ghiorzo@unige.it</a> and Prof. Luca Mastracci e-mail: <a href="mailto:luca.mastracci@unige.it">luca.mastracci@unige.it</a> Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
<b>Foreign Languages</b>	English
<b>Further Information</b>	Contact professors:  Prof.ssa Paola Ghiorzo <a href="mailto:paola.ghiorzo@unige.it">paola.ghiorzo@unige.it</a>  Prof. Luca Mastracci <a href="mailto:luca.mastracci@unige.it">luca.mastracci@unige.it</a>



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

**Curriculum: GERONTOLOGY, PATHOPHYSIOLOGY OF GERIATRIC DISEASES AND ANTI-AGEING MEDICINE (CODE 8203)**

<b>Coordinator:</b> Alessio Nencioni	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant cofunded by MIUR/DIMI, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	3.7.2020 – 9.00 am - Remote interview
<b>Exam Syllabus</b>	During the interview, the candidate will be evaluated with respect to the following criteria: - Knowledge of the topics to be covered (see Research Themes) - Motivation - Logical thinking - Overall vision - Aptitude to carry out an independent project - Potential for excellence and leadership qualities - Capacity to work in team Knowledge of the English language will be evaluated by a short reading and translation test.
<b>Research Themes</b>	- The biochemistry of aging: regulation of i) autophagy, ii) IGF-1 signaling, iii) intracellular NAD , iv) sirtuins, v) response to oxidative stress. - Physiopathology of frailty in the elderly. - Aging and tumors: biology, main clinical problems in treatment, geriatric profiling of the elderly affected by cancer. - Caloric restriction and fasting as strategies for the promotion of longevity and for the treatment of diseases: biological rationale and clinical evidence. - The personalization of treatment of senior patients in the medical or surgical setting
<b>Information on references</b>	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dipartimento di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: <a href="mailto:alessio.nencioni@unige.it">alessio.nencioni@unige.it</a> , <a href="mailto:ricercadimi@unige.it">ricercadimi@unige.it</a> and to Prof. Fiammetta Monacelli e-mail: <a href="mailto:fiammetta.monacelli@unige.it">fiammetta.monacelli@unige.it</a> Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
<b>Foreign Languages</b>	English
<b>Further Information</b>	Contact professors:  Prof. Alessio Nencioni <a href="mailto:alessio.nencioni@unige.it">alessio.nencioni@unige.it</a>  Prof. Fiammetta Monacelli <a href="mailto:fiammetta.monacelli@unige.it">fiammetta.monacelli@unige.it</a>

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

**Curriculum: DISEASES OF THE DIGESTIVE SYSTEM AND OF THE LIVER (CODE 8204)**

<b>Coordinator:</b> Alessio Nencioni	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	3.7.2020 – 9.00 am - Remote interview
<b>Exam Syllabus</b>	<p>During the interview, the candidate will be evaluated with respect to the following criteria:</p> <ul style="list-style-type: none"> <li>- Knowledge of the topics to be covered (see Research Themes)</li> <li>- Motivation</li> <li>- Logical thinking</li> <li>- Overall vision</li> <li>- Aptitude to carry out an independent project</li> <li>- Potential for excellence and leadership qualities</li> <li>- Capacity to work in team</li> </ul> <p>Knowledge of the English language will be evaluated by a short reading and translation test.</p>
<b>Research Themes</b>	<ul style="list-style-type: none"> <li>- Advanced diagnostic techniques and classification systems for Eosinophilic Oesophagitis.</li> <li>- Personalisation of management and treatment for patients with Inflammatory Bowel Diseases.</li> </ul> <p>Structure and physiology of the stomatognathic system: morphology of the different components in relation to their function</p> <p>rehabilitation of edentulous patients with implant prostheses with different loading protocols</p> <p>Peri-implant tissue diseases and prognostic factors predictive of dental implant success.</p>
<b>Information on references</b>	<p>Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dipartimento di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: <a href="mailto:alessio.nencioni@unige.it">alessio.nencioni@unige.it</a> , <a href="mailto:ricercadimi@unige.it">ricercadimi@unige.it</a> , to Prof. Edoardo G. Giannini e-mail: <a href="mailto:edoardo.giannini@unige.it">edoardo.giannini@unige.it</a> and Prof. Paolo Pera e-mail: <a href="mailto:paolopera@unige.it">paolopera@unige.it</a></p> <p>Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>Contact professors:</p> <p>Prof. Edoardo G. Giannini <a href="mailto:edoardo.giannini@unige.it">edoardo.giannini@unige.it</a></p> <p>Prof. Paolo Pera <a href="mailto:paolopera@unige.it">paolopera@unige.it</a></p>

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

**Curriculum: TRANSLATIONAL ONCOLOGY (CODE 8205)**

<b>Coordinator:</b> Alessio Nencioni	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	2.7.2020 – 9.00 am- Remote interview
<b>Exam Syllabus</b>	During the interview, the candidate will be evaluated with respect to the following criteria: - Knowledge of the topics to be covered (see Research Themes) - Motivation - Logical thinking - Overall vision - Aptitude to carry out an independent project - Potential for excellence and leadership qualities - Capacity to work in team Knowledge of the English language will be evaluated by a short reading and translation test.
<b>Research Themes</b>	Monitoring of solid tumours by circulating tumour DNA.  Prognostic and predictive molecular factors of the response to therapy in solid neoplasms.  Preclinical studies of associations between new antineoplastic drugs.  Pre-clinical and clinical trials in translational oncology.  Innovative therapeutic approaches in solid tumours and haematological malignancies.  Tumour pathology as disease of the molecular control networks.  Molecular and pathogenetic aspects of cardio-toxicity from antineoplastic drugs.
<b>Information on references</b>	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dipartimento di Medicina Interna DIMI, viale Benedetto XV n. 6, (16132 Genova) e-mail: alessio.nencioni@unige.it, ricercadimi@unige.it, to Prof. Alberto Ballestrero, e-mail: aballestrero@unige.it and Prof. Francesco Boccardo, e-mail: F.Boccardo@unige.it Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
<b>Foreign Languages</b>	English
<b>Further Information</b>	Reference Professors: Prof Alberto Ballestrero, e-mail: aballestrero@unige.it Prof. Francesco Boccardo, e-mail: F.Boccardo@unige.it

**Course in: PHYSICS AND NANOSCIENCES****In agreement with the Istituto Italiano di Tecnologia (IIT - Italian Institute of Technology)****Curriculum: PHYSICS (CODE 8207)**

<b>Coordinator:</b> Ferrando Riccardo	
Dipartimento di Fisica (DIFI)	
<b>Places:</b> 9 – <b>Grants:</b> 8 (*)	
(*) 7 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant funded by the National Institute of Nuclear Physics (Istituto Nazionale di Fisica Nucleare – INFN), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 8:30 am at the Department of Physics (Dipartimento di Fisica – DIFI), via Dodecaneso 33, Genova.  If a candidate has been admitted to the interview but cannot reach in time the place of the exam, the option of a video conferencing interview is available. To request this option it is necessary to send an email by 01/07/2020 to <a href="mailto:phd@fisica.unige.it">phd@fisica.unige.it</a> .  The details about the connection will be in the answer to the email request.
<b>Further information on how to present qualifications/publications</b>	Each candidate must submit a description of the research project he/she intends to carry out during the three years of the PhD course. The project must be written in English. A maximum length of 6000 characters including spaces is allowed.
<b>Exam Syllabus</b>	<ul style="list-style-type: none"> <li>- Discussion about the qualification of the candidate.</li> <li>- Discussion of the Master's thesis.</li> <li>- Presentation and discussion of the proposed research project.</li> <li>- Interview on basic physics topics (general physics, modern physics).</li> <li>- Verification of knowledge of the English language.</li> </ul>
<b>Research Themes</b>	<ul style="list-style-type: none"> <li>- Theoretical and Experimental Physics of Fundamental Interactions</li> <li>- Theoretical and Experimental Physics of Condensed Matter</li> <li>- Astronomy and Astrophysics</li> <li>- Physics Applied to the Environment, to Biology and Medicine</li> </ul>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support the application.</p> <p>These contactss must be university professors or experts in the subject.</p> <p>It is preferable that at least one contact belongs to the University of Genoa or to the affiliated research bodies (CNR/INFN/IIT).</p> <p>The referents will be responsible for sending the reference letters, preferably written in English, within the deadline of the call.</p> <p>The letters must be addressed to the attention of the course coordinator Prof. Riccardo Ferrando to the e-mail address: <a href="mailto:phd@fisica.unige.it">phd@fisica.unige.it</a>.</p> <p>The subject of the email must be: <b>PHD REFERENCE LETTER - PHYSICS</b></p>
<b>Foreign Languages</b>	Excellent knowledge of both spoken and written English. A very basic knowledge of Italian is desirable.

**Course in: PHYSICS AND NANOSCIENCES****In agreement with the Istituto Italiano di Tecnologia (IIT - Italian Institute of Technology)****Curriculum: BIO-NANOSCIENCES (8206)**

<b>Coordinator:</b> Ferrando Riccardo	
Department of Physics (Dipartimento di Fisica – DIFI)	
<b>Places:</b> 4 – <b>Grants:</b> 4 (*)	
(*) 4 grants funded by the Istituto Italiano di Tecnologia (IIT - Italian Institute of Technology), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 8.30 am at the Department of Physics (Dipartimento di Fisica – DIFI), via Dodecaneso 33, Genova. If a candidate has been admitted to the interview but cannot reach in time the place of the exam, the option of a video conferencing interview is available. To request this option it is necessary to send an email by 01/07/2020 to <a href="mailto:phd@fisica.unige.it">phd@fisica.unige.it</a> .  The details about the connection will be in the answer to the email request.
<b>Further information on how to present qualifications/publications</b>	Each candidate must submit a description of the research project he/she intends to carry out during the three years of the PhD course. The project must be written in English. A maximum length of 6000 characters including spaces is allowed.
<b>Exam Syllabus</b>	<ul style="list-style-type: none"> <li>- Discussion about the qualification of the candidate.</li> <li>- Discussion of the Master's thesis.</li> <li>- Presentation and discussion of the proposed research project.</li> <li>- Interview on basic physics topics (general physics, modern physics).</li> <li>- Verification of knowledge of the English language.</li> </ul>
<b>Research Themes</b>	<ul style="list-style-type: none"> <li>- Super resolved microscopy to study molecular interactions at the nanoscale.</li> <li>- Multi-messenger Optical Microscopy.</li> <li>- Nanoscale optical imaging of chromatin factors and processes related specific oncoprotein switching.</li> <li>- Development of 2D material based light-driven nanoscale devices.</li> </ul> <p>More detailed information on the research topics is available on the website <a href="https://www.iit.it/phd-school">https://www.iit.it/phd-school</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support the application.</p> <p>These contactss must be university professors or experts in the subject.</p> <p>It is preferable that at least one contact belongs to the University of Genoa or to the affiliated research bodies (CNR/INFN/IIT).</p> <p>The referents will be responsible for sending the reference letters, preferably written in English, within the deadline of the call.</p> <p>The letters must be addressed to the attention of the course coordinator Prof. Riccardo Ferrando to the e-mail address: <a href="mailto:phd@fisica.unige.it">phd@fisica.unige.it</a>.</p> <p>The subject of the email must be: <b>PHD REFERENCE LETTER - PHYSICS</b></p>
<b>Foreign Languages</b>	Excellent knowledge of both spoken and written English. A very basic knowledge of Italian is desirable.

**Course in: PHYSICS AND NANOSCIENCES****In agreement with the Istituto Italiano di Tecnologia (IIT - Italian Institute of Technology)****Curriculum: APPLIED SUPERCONDUCTIVITY (CODICE 8208)**

<b>Coordinator:</b> Ferrando Riccardo	
Department of Physics (Dipartimento di Fisica – DIFI)	
<b>Places:</b> 1 – <b>Borse:</b> 1 (*)	
(*) 1 grant funded by ENI SpA, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. Under condition of signing the agreement.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – ore 8:30 at the Department of Physics (Dipartimento di Fisica – DIFI), via Dodecaneso 33, Genova. If a candidate has been admitted to the interview but cannot reach in time the place of the exam, the option of a video conferencing interview is available. To request this option it is necessary to send an email by 01/07/2020 to <a href="mailto:phd@fisica.unige.it">phd@fisica.unige.it</a> .  The details about the connection will be in the answer to the email request.
<b>Further information on how to present qualifications/publications</b>	Each candidate must submit a description of the research project he/she intends to carry out during the three years of the PhD course. The project must be written in English. A maximum length of 6000 characters including spaces is allowed.
<b>Exam Syllabus</b>	- Discussion about the qualification of the candidate. - Discussion of the Master's thesis. - Presentation and discussion of the proposed research project. - Interview on basic physics topics (general physics, modern physics). - Verification of knowledge of the English language.
<b>Research Themes</b>	1) Superconducting materials and their properties; preparation of superconducting materials in the form of thin films; the development of tapes and wires for current transport 2) Dissipative phenomena in superconducting cables; the development of superconducting magnets for future accelerators; the study of innovative lay-outs for superconducting magnets 3) Advanced superconducting devices for radiation detection and electronics for use in physics and astrophysics and in technological applications for IC and security.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. It is preferable that at least one contact belongs to the University of Genoa or to the affiliated research bodies (CNR/INFN/IIT). The referents will be responsible for sending the reference letters, preferably written in English, within the deadline of the call. The letters must be addressed to the attention of the course coordinator Prof. Riccardo Ferrando to the e-mail address: <a href="mailto:phd@fisica.unige.it">phd@fisica.unige.it</a> . The subject of the email must be: PHD REFERENCE LETTER - PHYSICS
<b>Foreign Languages</b>	Excellent knowledge of both spoken and written English. A very basic knowledge of Italian is desirable.

**Course in: CLINICAL AND EXPERIMENTAL IMMUNOLOGY (CODE 8209)**

<b>Coordinator:</b> Mingari Maria Cristina	
Excellence Centre for the research and study of molecular communication mechanisms between cells: from basic research to the clinic (Centro di Eccellenza per lo studio dei meccanismi molecolari di comunicazione tra cellule: dalla ricerca di base alla clinica – CEBR)	
<b>Places: 5 – Grants: 3 (*)</b>	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 place reserved for the employees of Biogen MA (*) 1 place reserved for the employees of Ospedale Galliera	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	1.7.2020 – 9:30 am The interview will take place electronically (Skype/Teams). Candidates will receive details about the interview via email after the closing of the call for applications.
<b>Further information on how to present qualifications/publications</b>	The candidates should provide in pdf format: copy of the certificate of the University degree and the title of the final Thesis; list of publications and their copy; certification of previous activity in research laboratory
<b>Exam Syllabus</b>	Presentation of the research project, examination of the candidate on his/her knowledge about basic and clinical Immunology. Translation from English and comprehension of part of a scientific article.
<b>Research Themes</b>	Innate response and characterization of Innate Immune Cells ( NK and ILCs) Adaptive Response and characterization of T lymphocytes Autoimmunity, Tumor Immunology and Immunology of Infectious diseases
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following addresses: <a href="mailto:cebr@unige.it">cebr@unige.it</a> , <a href="mailto:eva.baraldi@unige.it">eva.baraldi@unige.it</a> and <a href="mailto:daniela.guelfo@unige.it">daniela.guelfo@unige.it</a> .  The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English

**Course in: COMPUTER SCIENCE AND SYSTEMS ENGINEERING**

**Curriculum: COMPUTER SCIENCE (CODE 8210)**

<b>Coordinator:</b> Delzanno Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
<b>Places:</b> 6 – <b>Grants:</b> 6 (*)	
(*) 4 grants from the Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant co-funded on funds by MIUR/DIBRIS, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grants funded by DIBRIS funds by funds from the project ERC Consolidator Grant 2018 “SLING” , the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 - 9.00 am at the Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS), Sede di Valletta Puggia, Via Dodecaneso 35, Genova.  An interview and via video conference is also possible on the same day or on following days, should there be a high number of candidates.
<b>Further information on how to present qualifications/publications</b>	Instructions and guidelines to prepare a research project are available at the URL <a href="http://phd.dibris.unige.it/csse/index.php/how-to-apply">http://phd.dibris.unige.it/csse/index.php/how-to-apply</a>
<b>Exam Syllabus</b>	The comparative procedure consists of - an assessment of the candidate qualifications - an interview to verify background and knowledge of the candidate as well as motivations and goals of the research proposal submitted with the application.
<b>Research Themes</b>	The research areas of the Computer Science Curriculum <a href="http://phd.dibris.unige.it/csse/">http://phd.dibris.unige.it/csse/</a> are: - Artificial intelligence and Multi-agent Systems - Data Science and Engineering - Secure and Reliable Systems - Human-Computer Interaction - Science and Technology for Health  The research project of the scholarship funded by the ERC Consolidator Grant 2018 SLING is: - Efficient algorithms for sustainable machine learning  More specific research projects are available at the URL: <a href="http://phd.dibris.unige.it/csse/index.php/how-to-apply">http://phd.dibris.unige.it/csse/index.php/how-to-apply</a> .
<b>Information on references</b>	Candidates must select between one and three external references (academic researchers or experts in the research area of the research proposal). Candidates must also indicate their names, qualifications, and affiliations in the application form.  Furthermore, reference persons are required to send a recommendation letter for the candidate to the email: <a href="mailto:phd.compsci@dibris.unige.it">phd.compsci@dibris.unige.it</a> before the deadline of the application.  A template for the reference letter is available at the URL: <a href="http://phd.dibris.unige.it/csse/index.php/how-to-apply">http://phd.dibris.unige.it/csse/index.php/how-to-apply</a>
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator of the PhD Course Prof. Giorgio Delzanno DIBRIS Via Dodecaneso 35, Genova (+39) 0103536603 <a href="mailto:giorgio.delzanno@unige.it">giorgio.delzanno@unige.it</a>



**Course in: COMPUTER SCIENCE AND SYSTEMS ENGINEERING****Curriculum: SYSTEMS ENGINEERING (CODE 8211)**

<b>Coordinator:</b> Delzanno Giorgio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS)	
<b>Places:</b> 4 – <b>Grants:</b> 4 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 2 grants funded by the Fondazione CIMA (CIMA Foundation), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 - 9.00 am at the Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi – DIBRIS), Sede di Valletta Puggia, Via Dodecaneso 35, Genova.  An interview and via video conference is also possible on the same day or on following days, should there be a high number of candidates.
<b>Further information on how to present qualifications/publications</b>	Instructions and guidelines to prepare the application and the research project are available at the URL: <a href="http://phd.dibris.unige.it/csse/index.php/how-to-apply">http://phd.dibris.unige.it/csse/index.php/how-to-apply</a>
<b>Exam Syllabus</b>	The comparative procedure consists of - an assessment of the candidate qualifications - an interview to verify background and knowledge of the candidate as well as motivations and goals of the research proposal submitted with the application
<b>Research Themes</b>	The research areas of the Systems Engineering Curriculum <a href="http://phd.dibris.unige.it/csse/">http://phd.dibris.unige.it/csse/</a> are: Modelling of dynamic systems, performance optimization schemes and algorithms, design and development of regulation methods and schemes, planning at different levels of decision making, monitoring and supervision.  The research projects of the scholarships funded by the CIMA Foundation are: - Numerical modelling for rapid simulations of tactical scenarios of forest fires at various physical resolution scales with the aim of safeguarding the forest heritage and civil protection. - Numerical modelling and development of technologies for the monitoring and assessment of risk scenarios in the marine environment.  More specific research projects are available at the URL: <a href="http://phd.dibris.unige.it/csse/index.php/how-to-apply">http://phd.dibris.unige.it/csse/index.php/how-to-apply</a> .
<b>Information on references</b>	Candidates must select between one and three external references (academic researchers or experts in the research area of the research proposal). Candidates must also indicate reference names, qualifications, and affiliations in the application form.  Furthermore, reference persons are required to send a recommendation letter for the candidate to the email: <a href="mailto:phd.compsci@dibris.unige.it">phd.compsci@dibris.unige.it</a> before the deadline of the application. A template for the reference letter is available at the URL: <a href="http://phd.dibris.unige.it/csse/index.php/how-to-apply">http://phd.dibris.unige.it/csse/index.php/how-to-apply</a>
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator of the PhD Course Prof. Giorgio Delzanno DIBRIS, Via Dodecaneso 35 Genova (+39) 0103536603 <a href="mailto:giorgio.delzanno@unige.it">giorgio.delzanno@unige.it</a>

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

**Curriculum: MACHINE AND SYSTEMS ENGINEERING FOR ENERGY, THE ENVIRONMENT AND PROPULSION (CODE 8213)**

<b>Coordinator:</b> Cianci Roberto	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant co-funded by MIUR/DIME, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	Write to Prof. Andrea Cattanei, cattanei@unige.it
<b>Research Themes</b>	<p>The research topics concern energy generation and aircraft propulsion. They are of experimental, numeric and theoretical nature:</p> <p>1) Turbomachines and combustors for energy generation and aircraft propulsion:</p> <ul style="list-style-type: none"> <li>• flow analysis in turbomachines and power plant components;</li> <li>• design of turbines, pumps, fans and compressors;</li> <li>• unsteady aerodynamics of turbogas burners;</li> <li>• aerodynamic noise in turbomachines</li> <li>• study of combustion processes.</li> </ul> <p>2) Internal combustion engines for automobile traction and marine propulsion:</p> <ul style="list-style-type: none"> <li>• analysis of road vehicle emissions and models of pollutants diffusion in the environment;</li> <li>• study of the functional characteristics of suction and exhaust systems components of engines;</li> <li>• advanced air compressing systems for automotive applications;</li> <li>• optimization of performance, consumption and polluting emissions of engines for road traction.</li> </ul> <p>3) Systems for the generation of energy based on traditional primary and renewable resources:</p> <ul style="list-style-type: none"> <li>• analysis of the static and dynamic behaviour of energy plants;</li> <li>• simulators in simulated and real time;</li> <li>• analysis and optimization of complex and innovative plants for the production of energy.</li> </ul>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support the application. These referents must be university professors or experts in the subject. It will be up to the referents to send the reference letters, within the deadline of the call, to the Coordinator of the course address:</p> <p>Prof. Andrea Cattanei DIME Via Montallegro 1 16145 Genoa cattanei@unige.it</p> <p>In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons they have chosen.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	For further information it is possible to contact the Coordinator of the Doctorate Prof. Roberto Cianci roberto.cianci@unige.it or Prof. Andrea Cattanei cattanei@unige.it.

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

**Curriculum: MATHEMATICAL ENGINEERING AND SIMULATION (CODE 8214)**

<b>Coordinator:</b> Cianci Roberto	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	Write to Prof. Roberto Cianci, roberto.cianci@unige.it.
<b>Research Themes</b>	<p>The following research topics are proposed within the curriculum:</p> <ol style="list-style-type: none"> <li>1. Continuous and discrete mathematical models for the thermo-fluid dynamics of energy systems; fluid mechanics and their equations. Acoustics and wave propagation problems in fluid and solid media using "similar instruments". Metamaterials. The Dirac field in interaction.</li> <li>2. Methodologies for the development and analysis of discrete and continuous models for the simulation of systems.</li> </ol> <p>Numerical analysis tools and problems; development of simulators and federations of simulators for complex systems. Goal definition, formalization, implementation solutions, integration, verification, validation, testing, accreditation and execution of real-time, fast-time and slow time models.</p> <ol style="list-style-type: none"> <li>3. Physical-mathematical models with finite or infinite degrees of freedom, interaction field theory. Geometric and analysis techniques. Diffusion problems and solving techniques. Environmental problems of public security for the fight against terrorism.</li> <li>4. Mechanics of solids. Numerical and control techniques.</li> <li>5. Development of aggregate and operational programming systems, realized through finite capacity tools, with simulation techniques with discrete events. Optimal state estimate for linear and nonlinear systems.</li> <li>6. Development and application of artificial intelligence techniques. Geometric support methodologies for the development of simulators in virtual reality environments. Simulation applied to the logistics and transport sector for supply chain management for decision support.</li> </ol> <ol style="list-style-type: none"> <li>1. 7. Simulation applied to the military, tactical and strategic sector.</li> </ol>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support the application. These referents must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address:</p> <p>Prof. Roberto Cianci, DIME Via Opera Pia 15 Genoa roberto.cianci@unige.it</p> <p>In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons they have chosen.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	For any request write to Prof. Roberto Cianci, roberto.cianci@unige.it.

**Course in: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING**

**Curriculum: ECONOMY AND MANAGEMENT (CODE 8215)**

<b>Coordinator:</b> Tagliafico Luca Antonio	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	<p>7.07.2020 – 10.00 am at the Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME), MEC section, Via All’Opera Pia 15/a - 16145 Genova.</p> <p>Upon a motivated request, the interview may also take place electronically (Skype video conference) by getting in touch in time with the contact person for the curriculum Prof. Silvano Cincotti (<a href="mailto:silvano.cincotti@unige.it">silvano.cincotti@unige.it</a>) and copy to the Coordinator of the Doctoral Course Prof. Luca A. Tagliafico (<a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a>) specifying the candidate’s name, Skype address and the curriculum he/she is referring to.</p>
<b>Further information on how to present qualifications/publications</b>	<p>Further information on Qualifications/publications must contain a detailed explanation and the planning of the development of a possible research project concerning one of the syllabuses of the field Economy and Management (EM.1, EM.2), in order to evaluate the candidate’s ability to organize and carry out research.</p> <p>If admitted to the doctoral course, the candidate will carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described in the actual project submitted. The research project (min. 8,000 max. 16,000 strokes including spaces and punctuation) must comprise:</p> <ul style="list-style-type: none"> <li>- the research title;</li> <li>- field state of the art and relative bibliographic references;</li> <li>- objectives and expected results.</li> </ul> <p>In addition to the documentation that must be submitted by means of the online procedure, the following information, if present, will also be taken into consideration:</p> <ul style="list-style-type: none"> <li>- the title of the thesis dissertation of the Specialist/II level Degree/Master of Science/Master of Engineering together with a brief description (max. 4,000 strokes including spaces and punctuation);</li> <li>- a list of the exams done with the number of credits, marks and syllabuses (max 500 strokes including spaces and punctuation for each course);</li> <li>- any other qualifications/publications relevant to the application and scientific activity carried out;</li> <li>- a letter that states aptitude and motivations and the advancement expectations of the candidate submitting the application.</li> </ul>
<b>Exam Syllabus</b>	The interview will focus on the discussion of the project, the qualifications presented by the candidate and on all the specific themes bound to the Economy and Management syllabus.
<b>Research Themes</b>	<p>The Economy and Management syllabus (EM) aims at developing quantitative and computational approaches in finance and economics. Two main research themes with the corresponding syllabuses have been singled out for this EM syllabus:</p> <p>EM.1 Specialization Agent-based Computational Economics.</p> <p>This syllabus focuses mainly on the use of agent technologies and methodologies for the study of economics and finance, a bottom-up approach that allows for the study of regularities emerging in the economy as a result of the behaviour and interactions of economic agents in artificial economic systems and which adapts better, with respect to traditional dynamic stochastic models, to the development of a realistic representation of the economy. The EM. 1 specialization develops skills that can be applied directly to the financial industry, to government and international organizations and to the academic world.</p> <p>2. EM.2 Specialization Financial Engineering.</p> <p>This syllabus focuses on computational econometrics, on data mining, on automated learning and on dynamic stochastic models of financial and economic data, the objective of which is to study the pricing of derivatives and financial assets, as well as risk management, in a non-Gaussian environment and in the presence of extreme events. Furthermore, the syllabus includes innovative themes relative to the management of shares portfolios, such as pair trading and statistical arbitrage, as well as the emerging theme of high frequency automated trading.</p>

	The EM.2 specialization develops skills that naturally give access to work opportunities both in the financial and academic fields.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Luca A. Tagliafico at the following address <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a> and to the contact person for the curriculum EM, Prof. Silvano Cincotti, at <a href="mailto:silvano.cincotti@unige.it">silvano.cincotti@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>Coordinator of the MEME Doctoral Course:  Prof. Luca A. Tagliafico  DIME/TEC  via all'Opera Pia 15/A  16145 Genova  (+39) 0103532880  <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a></p> <p>Contact person for the EM curriculum:  Prof. Silvano Cincotti  DIME/Sezione MIG  via all'Opera Pia 15  16145 Genova  (+39) 0103532080  <a href="mailto:silvano.cincotti@unige.it">silvano.cincotti@unige.it</a></p>

**Course in: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING****Curriculum: MECHANICS, MEASUREMENTS AND MATERIALS (CODE 8216)**

<b>Coordinator:</b> Tagliafico Luca Antonio	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant co-funded by MIUR/DIME, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 10.00 am at the Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME), MEC section, Via All’Opera Pia 15/a - 16145 Genova.  Upon a motivated request, the interview may also take place electronically (Skype video conference) by getting in touch in time with the contact person for the curriculum Prof. Giovanni Berselli, ( <a href="mailto:giovanni.berselli@unige.it">giovanni.berselli@unige.it</a> ) and copy to the Coordinator of the Doctoral Course Prof. Luca A. Tagliafico ( <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a> ) specifying the candidate’s name, Skype address and the curriculum he/she is referring to.
<b>Further information on how to present qualifications/publications</b>	The qualifications/publications must contain a detailed explanation and the development plan of how to present a possible research project, quoting the Robotics and Mechatronics (RM) syllabus, and the field qualifications/publications it refers to, in order to evaluate the candidate’s ability to organize and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described and planned in the actual project.
<b>Exam Syllabus</b>	The interview will focus on the discussion of the project, the qualifications presented by the candidate and on all the specific themes bound to the Mechanics, Measurements And Materials curriculum (MMM).
<b>Research Themes</b>	The Mechanics, Measurements and Materials (MMM) syllabus focuses on research themestypical of the Macrosectors it refers to. In particular the research themes suggested concern the functional and constructive design sector, CAD, CAE, PLM, PDM, additive manufacturing (polymer-based metals and composites (machine and material methods in combination), the mechanic behaviour of materials, materials and implants for medical, industrial and marin applications, calculus modelling and applications of composite components also for orthotics and biomedical applications, environmental compatibility and recycling, mechanical and mechatronic systems, motor vehicles, railway vehicles, airplanes, mechanical automation, working, raising and transport systems, lubrication, vibrations and noise, sound quality, experimental methods, diagnostics and qualifying of machines and components, monitoring and maintenance, reliability, reverse logistics.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Luca A. Tagliafico at the following address <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a> and to the contact person for the curriculum MMM, Prof. Giovanni Berselli, at <a href="mailto:giovanni.berselli@unige.it">giovanni.berselli@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator of the Doctoral Course Prof. Luca Antonio Tagliafico DIME/TEC via all’Opera Pia 15/A 16145 Genova (+39) 0103532880 <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a>  Contact person for the MMM Curriculum Prof. Giovanni Berselli DIME/MEC via all’Opera Pia 15/A 16145 Genova (+39) 0103532839 <a href="mailto:giovanni.berselli@unige.it">giovanni.berselli@unige.it</a>

**Course in: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING**

**Curriculum: ROBOTICS AND MECHATRONICS (8217)**

<b>Coordinator:</b> Tagliafico Luca Antonio	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 10.00 am at the Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME), MEC section, Via All’Opera Pia 15/a - 16145 Genova.  Upon a motivated request, the interview may also take place electronically (Skype video conference) by getting in touch in time with the contact person for the curriculum Matteo Zoppi (Matteo.zoppi@unige.it) and carbon copy to the Coordinator of the Doctoral Course Prof. Luca A. Tagliafico (tgl@dittec.unige.it) specifying the candidate’s name, Skype address and the curriculum he/she is referring to. (RM)
<b>Further information on how to present qualifications/publications</b>	The qualifications/publications must contain a detailed explanation and the development plan of a possible research project, quoting the Robotics and Mechatronics (RM) syllabus, and the field it refers to, in order to evaluate the candidate’s ability to organize and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described and planned in the actual project.
<b>Exam Syllabus</b>	The interview will be a discussion of the research project and qualifications/publications presented and on the correlated themes which feature in the RM curriculum.
<b>Research Themes</b>	The Robotics and Mechatronics (RM) syllabus focuses on research themes typical of the Macrosectors it refers to. In particular the research themes suggested concern the development of robot and manipulation, switch systems, home automation (domotics), remote manipulation, modular robots and robots for safety, intelligent mini-vehicles, assembly systems, fluid automation; models and simulation of systems for robotics and mechatronics, man-machine interaction, collaborative robotics, cooperative robotics, robot programming, integration of robotic systems, mechatronics for the automatic machine sectors and for the mechanical and marine mechanical industry.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Luca A. Tagliafico at the following address tgl@dittec.unige.it and to the contact person for the curriculum RM, Prof. Matteo Zoppi, at matteo.zoppi@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator of the Doctoral Course Prof. Luca Antonio Tagliafico DIME/TEC via all'Opera Pia 15/A 16145 Genova (+39) 0103532880 <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a>  Contact person for the RM Curriculum Prof. Matteo Zoppi DIME/MEC via all'Opera Pia 15/A 16145 Genova (+39) 0103532964 <a href="mailto:matteo.zoppi@unige.it">matteo.zoppi@unige.it</a>

**Course in: MECHANICAL, ENERGY AND MANAGEMENT ENGINEERING**

**Curriculum: TECHNOLOGIES AND PLANTS (CODE 8218)**

<b>Coordinator:</b> Tagliafico Luca Antonio	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti – DIME)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	The qualifications/publications must contain a detailed explanation and the development plan of how to present a possible research project, quoting the Technologies and Plants (TP) syllabus, and the field (TP.1 or TP.2) it refers to, in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described in the actual project.
<b>Research Themes</b>	The Technologies and Plants (TP) syllabus focuses on research themes typical of the macro-sectors it refers to. It is organized into two specializations:  TP.1 Processing Technologies and Systems Specialization: -Analysis of the variables that influence the mechanical and micro-structural characteristics of welded joints implemented with traditional and innovative techniques. -Study of the potential of robotic welding plants. -Singling out of solutions that allow the obtaining of glued joints with adequate characteristics (study of the surface preparation methods, analysis of the behaviour of adhesives in different environmental conditions). -Study of the problems concerning the fine-tuning and monitoring of the processing of metallic and non-metallic materials. -Study and singling out of construction techniques of moulds for polymeric materials. -Surface analysis and fine-tuning of techniques to obtain the desired degree of finishing and chemical reactivity. TP.2 Industrial Plants Specialization: -Design and management of production processes. -Technical and economic assessments of Engineering and industrialization of new products and production cycles. -Industrial sustainability, quality, safety, remanufacturing, demanufacturing. -Manufacturing strategies: Lean Manufacturing, World Class Manufacturing, Agile Manufacturing. -Industrial logistics. -Life Cycle Assessment of plants and processes. -Key enabling technology 4.0 for production and industrial plants: simulation, IoT, augmented and virtual realities, manufacturing analytics. The activities that will be carried out within the doctoral course aim at training young researchers to be capable of developing theoretical and experimental research starting from the analysis of the state of the art and autonomously developing innovative solutions.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Luca A. Tagliafico at the following address <a href="mailto:tgl@ditec.unige.it">tgl@ditec.unige.it</a> and to the contact person for the curriculum TP, Prof. Carla Gambaro, at <a href="mailto:Carla.Gambaro@unige.it">Carla.Gambaro@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator of the Doctoral Course: Prof. Luca A. Tagliafico DIME/TEC via all'Opera Pia 15/A 16145 Genova (+39) 0103532880



[tgl@dittec.unige.it](mailto:tgl@dittec.unige.it)

Contact person for the TP curriculum:

Prof. Carla Gambaro

DIME/MIG

via all'Opera Pia 15

16145 Genova

(+39) 0103532889

[gambaro@diptem.unige.it](mailto:gambaro@diptem.unige.it)

**Course in: JOINT DOCTORATE IN INTERACTIVE AND COGNITIVE ENVIRONMENTS (JD ICE)**  
**Doctoral Course in agreement with the Queen Mary University of London and Universidad Carlos III de Madrid**

**Curriculum: INTERACTIVE AND COGNITIVE ENVIRONMENTS (CODE 8219)**

<b>Coordinator:</b> Regazzoni Carlo	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
At the end of the course a joint qualification will be awarded with the Queen Mary University of London.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	<p>9.7.2020 - 3.00 pm at the Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN), via Opera Pia 11A, Genova.</p> <p>The interviews may also take place electronically via Skype connection with video for identity verification, upon request to the Coordinator of the Research Doctorate, Prof. Carlo Regazzoni, by email at carlo.regazzoni@unige.it and at icephd@dibe.unige.it address, inserting your skype ID in the request.</p>
<b>Further information on how to present qualifications/publications</b>	<p>The application form must contain:</p> <p>a) curriculum vitae et studiorum correctly dated and signed. The CV must include all relevant information regarding the research doctorate topics for which the candidate is applying. This information should highlight: title of the master's degree thesis and a brief description of the same, list of exams taken and relative marks of previous research and / or work experience, any other qualifications obtained, certifications, publications, patents, etc.;</p> <p>b) degree certificate (three-year and master's). Candidates who have not obtained their degree in Italy or in the United Kingdom will have to present the certificate of attestation of the title translated into English and a declaration of value.</p> <p>c) a presentation of the institution that issued the title, containing a description of the selection methods, the international and national ranking, types of types of qualifications issued, teaching languages, website (etc) (max. 15 lines);</p> <p>d) if the candidate is not a native English speaker, he / she must present a certificate of attestation of knowledge of the English language (IELTS with a minimum mark equal to: 6.5) obtained in the last three years from the submission of the application)</p> <p>e) a signed motivation letter containing the research project chosen and the reasons for the choice (max 10 pages)</p> <p>It is important to highlight in the presentation of the research project, since the following aspects will be used as evaluation parameters: Relevance to the research themes that appear in the call, Originality, Methods of execution, Feasibility, Clarity of exposure.</p> <p>A possible scheme for the presentation of the research project, which must not exceed 10 pages, is the following:</p> <ul style="list-style-type: none"> <li>- Motivations and logical foundation</li> <li>- State of art</li> <li>- Targets</li> <li>- Methodology used</li> <li>- Preliminary workplan</li> <li>- Expected results</li> <li>- Bibliography</li> </ul>
<b>Exam Syllabus</b>	<p>The interview includes an illustration of the research activities of interest of the candidate, also in consideration of the previous research activities included in the candidate's curriculum vitae et studiorum.</p> <p>During the interview, the examining commission will evaluate the candidate's competences with regard to specific research topics.</p> <p>During the interview, the candidate must demonstrate his knowledge of the English language. In order to take the interview, the candidate must show the same identity document attached to the application for admission, he may also show another valid identity document where it is clearly identifiable.</p>
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1) Satellite Networks in the 5G Ecosystem</li> <li>2) Cybersecurity for Critical Infrastructures and Smart Cities</li> <li>3) Telemedicine and Tele-rehabilitation</li> </ol>

	<p>4) Emergent and incremental self awareness in multisensor physical agents  5) Data driven Self awareness models for AI enabled wireless communications  6) Collective self awareness in multiagent cooperative teams  7) Advanced network and edge application control beyond the 5G  8) Cyber Security in a multi-domain virtualized environment  9) Advance approaches for enhancing network and computing sustainability  10) Prognostics methods for hydrogen production plants  11) Big data management and machine learning in videogame analytics  12) Deep learning on the edge</p> <p>More detail on specific topics is available on the website <a href="http://phd-jdice.diten.unige.it/">http://phd-jdice.diten.unige.it/</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. It must be the referents' responsibility to send the reference letters, within the deadline of the call, to the Coordinator of the PhD course at the following addresses: <a href="mailto:carlo.regazzoni@unige.it">carlo.regazzoni@unige.it</a>; <a href="mailto:icephd@dibe.unige.it">icephd@dibe.unige.it</a></p> <p>In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons they have chosen.</p> <p>The candidate's aptitude for scientific research must clearly show from the content of the reference letters.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>The Doctoral course in Interactive and Cognitive Environment is a JOINT Doctorate and is organized and coordinated - as stipulated in the agreement "COLLABORATION AGREEMENT BETWEEN QUEEN MARY UNIVERSITY OF LONDON AND UNIVERSITY OF GENOA STUDIES". The agreement provides for a joint model of coordination of the doctorate, supervision and mobility of candidates. In accordance with the above, each supervising candidate will be assigned two supervisors, one for each partner university. Candidates who participate in the announcement announced by UNIGE and will be winners, and who will therefore have UNIGE as their Primary Institution, will be assigned a UNIGE professor as Primary Supervisor and a QMUL professor as Secondary Supervisor. Upon completion of the doctorate, a JOINT degree signed by both Partner Universities will be issued to those who successfully pass the final defense.</p> <p>More information on: <a href="http://phd-jdice.diten.unige.it/">http://phd-jdice.diten.unige.it/</a></p>

**Course in: JOINT DOCTORATE IN INTERACTIVE AND COGNITIVE ENVIRONMENTS (JD ICE)**  
**Doctoral Course in agreement with the Queen Mary University of London and the Universidad Carlos III de Madrid.**

**Curriculum: SELF-AWARE AUTONOMOUS SYSTEMS (8220)**

<b>Coordinator:</b> Regazzoni Carlo	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
According to the agreement with the Universidad Carlos III de Madrid (UC3M) signed on 8.6.2018, a co-tutorship can be implemented in order to have a joint degree. Procedures will be published on line at the following address <a href="http://phd-jdice.diten.unige.it/">http://phd-jdice.diten.unige.it/</a> .	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	9.7.2020 - 3.00 pm at the Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN), via Opera Pia 11A, Genova.  The interviews may also take place electronically via Skype connection with video for identity verification, upon request to the Coordinator of the Research Doctorate, Prof. Carlo Regazzoni, by email at <a href="mailto:carlo.regazzoni@unige.it">carlo.regazzoni@unige.it</a> and at <a href="mailto:icephd@dibe.unige.it">icephd@dibe.unige.it</a> address, inserting your skype ID in the request.
<b>Further information on how to present qualifications/publications</b>	The application form must contain: a) curriculum vitae et studiorum correctly dated and signed. The CV must include all relevant information regarding the research doctorate topics for which the candidate is applying. This information should highlight: title of the master's degree thesis and a brief description of the same, list of exams taken and relative marks of previous research and / or work experience, any other qualifications obtained, certifications, publications, patents, etc.; b) degree certificate (three-year and master's). Candidates who have not obtained their degree in Italy or in the United Kingdom will have to present the certificate of attestation of the title translated into English and a declaration of value. c) a presentation of the institution that issued the title, containing a description of the selection methods, the international and national ranking, types of types of qualifications issued, teaching languages, website (etc) (max. 15 lines); d) if the candidate is not a native English speaker, he / she must present a certificate of attestation of knowledge of the English language (IELTS with a minimum mark equal to: 6.5) obtained in the last three years from the submission of the application) e) a signed motivation letter containing the research project chosen and the reasons for the choice (max 10 pages) It is important to highlight in the presentation of the research project, since the following aspects will be used as evaluation parameters: Relevance to the research themes that appear in the call, Originality, Methods of execution, Feasibility, Clarity of exposure. A possible scheme for the presentation of the research project, which must not exceed 10 pages, is the following: - Motivations and logical foundation - State of art - Targets - Methodology used - Preliminary workplan - Expected results - Bibliography
<b>Exam Syllabus</b>	The interview includes an illustration of the research activities of interest of the candidate, also in consideration of the previous research activities included in the candidate's curriculum vitae et studiorum. During the interview, the examining commission will evaluate the candidate's competences with regard to specific research topics. During the interview, the candidate must demonstrate his knowledge of the English language. In order to take the interview, the candidate must show the same identity document attached to the application for admission, he may also show another valid identity document where it is clearly identifiable.
<b>Research Themes</b>	1) Satellite Networks in the 5G Ecosystem

	<p>2) Cybersecurity for Critical Infrastructures and Smart Cities  3) Telemedicine and Tele-rehabilitation  4) Emergent and incremental self awareness in multisensor physical agents  5) Data driven Self awareness models for AI enabled wireless communications  6) Collective self awareness in multiagent cooperative teams  7) Advanced network and edge application control beyond the 5G  8) Cyber Security in a multi-domain virtualized environment  9) Advance approaches for enhancing network and computing sustainability  10) Prognostics methods for hydrogen production plants  11) Big data management and machine learning in videogame analytics  12) Deep learning on the edge</p> <p>More detail on specific topics is available on the website <a href="http://phd-jdice.diten.unige.it/">http://phd-jdice.diten.unige.it/</a>.</p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. It must be the referents' responsibility to send the reference letters, within the deadline of the call, to the Coordinator of the PhD course at the following addresses: <a href="mailto:carlo.regazzoni@unige.it">carlo.regazzoni@unige.it</a>; <a href="mailto:icephd@dibe.unige.it">icephd@dibe.unige.it</a></p> <p>In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons they have chosen.</p> <p>The candidate's aptitude for scientific research must clearly show from the content of the reference letters.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>The PhD course in Self-aware autonomous systems belongs is a JOINT Doctorate and is organized and coordinated - as stipulated in the agreement "COLLABORATION AGREEMENT BETWEEN UNIVERSIDAD CARLOS III DE MADRID AND UNIVERSITY OF GENOA". The agreement provides for a joint model of coordination of the doctorate, supervision and mobility of candidates. In accordance with the above, each supervising candidate will be assigned two supervisors, one for each partner university. Candidates who participate in the announcement announced by UNIGE and will be winners, and who therefore will have UNIGE as their Primary Institution, will be assigned a UNIGE professor as Primary Supervisor and a UC3M professor as Secondary Supervisor. Upon completion of the doctorate, a JOINT degree signed by both Partner Universities will be issued to those who successfully pass the final defense.</p> <p>More information on: <a href="http://phd-jdice.diten.unige.it/">http://phd-jdice.diten.unige.it/</a></p>

**Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES**

**Curriculum: CLASSICAL PHILOLOGY (CODE 8221)**

<b>Coordinator:</b> Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 8 – <b>Grants:</b> 6 (*).	
(*) 5 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant co-financed by MIUR/DIRAAS funds. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
The number of grants (6) and that of places without grant (2) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	10.7.2020 – The interview will be held in telematic mode (Skype or Teams). Specific information about the interview will be given to admitted candidates.
<b>Further information on how to present qualifications/publications</b>	The candidate's MA thesis and other publications (if any) will have to be sent to Prof. Franco Montanari (franco.montanari@unige.it) in pdf format by the deadline of the call.
<b>Exam Syllabus</b>	The interview will be held in telematic mode. It will consist in a detailed presentation of the research project, which will highlight the applicant's scientific interests and experiences. The applicant's critical and argumentative skills will be evaluated. Knowledge of Greek or Latin, and of foreign languages as required (see "Lingue straniere" below) will also be tested.
<b>Research Themes</b>	- Greek literature and philology; - Latin literature and philology; - Byzantine literature and philology. - Ancient Christian texts: their tradition and reception.
<b>Information on references</b>	Min. 1-max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to luciana.vecile@unige.it by the deadline of the call.
<b>Foreign Languages</b>	Good knowledge of ancient Greek or Latin and of at least of the following languages: English, French, Spanish, German. During the oral test, for at least two of the abovementioned languages, candidates will have to show sufficient knowledge to translate a passage of a scientific publication. Candidates of foreign native speakers must also demonstrate an adequate knowledge of the Italian language.
<b>Further Information</b>	Only a limited number of applicants will be admitted to the online oral examination. Admission will be based on cv, MA dissertation, publications, and research project. The list of those admitted will be posted by 04/07/2020 on our site: <a href="https://corsi.unige.it/it/11023">https://corsi.unige.it/it/11023</a>

**Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES**

**Curriculum: PHILOLOGY AND LINGUISTICS OF ITALIAN AND ROMANCE TEXTS (CODE 8222)**

<b>Coordinator:</b> Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 8 – <b>Grants:</b> 6 (*).	
(*) 5 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant financed by MIUR/DIRAAS funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
The number of grants (6) and that of places without grant (2) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	10.7.2020 – The interview will be held in telematic mode (Skype or Teams). Specific information about the interview will be give to admitted candidcates.
<b>Further information on how to present qualifications/publications</b>	The candidate's MA thesis and publications (if any) will have to be sent to luciana.vecile@unige.it by the deadline of the call.
<b>Exam Syllabus</b>	The interview will be held in telematic mode. It will consist in a detailed presentation of the research project, which will highlight the applicant's scientific interests and experiences. The applicant's critical and argumentative skills will be evaluated. Knowledge of foreign languages as required (see "Lingue straniere" below) will also be tested.
<b>Research Themes</b>	- Critical/commented editions of literary texts (any period of Italian literary history). - Philology and criticism of romance texts - Italian lexicography and lexicology. - The comic, satire, parody: medieval themes and practices.
<b>Information on references</b>	Min. 1-max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their letters to luciana.vecile@unige.it by the deadline of the call.
<b>Foreign Languages</b>	The translation of a passage from English or French will also be requested during the interview. Candidates of foreign native speakers must also demonstrate an adequate knowledge of the Italian language.
<b>Further Information</b>	Only a limited number of applicants will be admitted to the online interview. Admission will be based on cv, MA dissertation, publications and research project. The list of those admitted will be posted by 4/07/2020 on our site: <a href="https://corsi.unige.it/it/11023">https://corsi.unige.it/it/11023</a>

**Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES**

**Curriculum: ITALIAN LITERATURE: TEXTUAL TRADITIONS AND INTERPRETATIONS (CODE 8223)**

<b>Coordinator:</b> Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 8 – <b>Grants:</b> 6 (*).	
<p>(*) 5 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.</p> <p>(*) 1 grant financed by MIUR/DIRAAS funds. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.</p> <p>The number of grants (6) and that of places without grant (2) refers to the doctoral research course in its entirety and not to the single curriculum.</p> <p>The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula.</p> <p>Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.</p>	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	10.7.2020 – The interview will be held in telematic mode (Skype or Teams). Specific information about the interview will be give to admitted candidcates.
<b>Further information on how to present qualifications/publications</b>	The candidate's MA thesis and publications (if any) will have to be sent to luciana.vecile@unige.it in pdf format by the deadline of the call.
<b>Exam Syllabus</b>	The interview will be held in telematic mode. It will consist in a detailed presentation of the research project, which will highlight the applicant's scientific interests and experiences. The applicant's critical and argumentative skills will be evaluated. Knowledge of foreign languages as required (see "Lingue straniera" below) will also be tested.
<b>Research Themes</b>	<ul style="list-style-type: none"> <li>- Critical/commented editions of literary works (any period of Italian literary history).</li> <li>- Intercultural and intertextual research themes:               <ol style="list-style-type: none"> <li>a) Ligurian literature ('500-'900)</li> <li>b) from Mannerism to Romanticism</li> <li>c) the Risorgimento</li> </ol> </li> <li>- Ligurian authors' manuscripts</li> <li>- Literature and journalism</li> <li>- Italian literature and the theatre</li> <li>- Italian literature and music history.</li> </ul>
<b>Information on references</b>	Min. 1-max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to luciana.vecile@unige.it by the deadline of the call.
<b>Foreign Languages</b>	The translation of a passage from English or French will also be requested during the interview. Candidates of foreign native speakers must also demonstrate an adequate knowledge of the Italian language.
<b>Further Information</b>	Only a limited number of applicants will be admitted to the online interview. Admission will be based on cv, MA dissertation, publications and research project. The list of those admitted will be posted by 04/07/2020 on our site: <a href="https://corsi.unige.it/it/11023">https://corsi.unige.it/it/11023</a>



**Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES**

**Curriculum: ANGLO-GERMAN LITERATURES (CODE 8224)**

<b>Coordinator:</b> Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 8 – <b>Grants:</b> 6 (*).	
(*) 5 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant financed by MIUR/DIRAAS funds. the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
The number of grants (6) and that of places without grant (2) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	10.7.2020 – The interview will be held in telematic mode (Skype or Teams). Specific information about the interview will be give to admitted candidcates.
<b>Further information on how to present qualifications/pubblications</b>	The candidate's MA thesis and publications (if any) will have to be sent to Prof. Luisa Villa: luisa.villa@unige.it in pdf format by the deadline of the call.
<b>Exam Syllabus</b>	The interview will be held in telematic mode. It will consist in a detailed presentation of the research project, which will highlight the applicant's scientific interests and experiences. The applicant's critical and argumentative skills will be evaluated. Knowledge of foreign languages as required (see "Lingue straniera" below) will also be tested.
<b>Research Themes</b>	Our PhD programme welcomes research projects on a variety of authors and works of Anglo-American (19th-21rst centuries), English (16th-21rst centuries), Nordic (18th-21rst centuries) and German (18th-21rst centuries) literatures. Main fields of research: - US: American Renaissance; poetry and culture; fiction from James to Fitzgerald; literature and society after WWII; theatre (and cinema) in the 20th century. - English Studies: Elizabethan and Jacobean theatre; 18th-century fiction; Orientalism in the age of Enlightenment; the Sublime; representations of the British aristocracy; Romantics, late-romantics and early Victorians; Victorian colonial warfare and its representations; aestheticism and decadence; literary impressionism; late-Victorian fiction; metropolitan Modernists and colonial peripheries; writing, visual arts and intertextuality; modernist criticism and metaphysical poetry; contemporary urban literature; tradition and innovation in Postwar poetry; vulnerability, ethics and biopolitics in 21st-century fiction.. - German studies: travel writing; the grotesque in literature; the historical novel; war literature; popular literature and national identities ((1850-1914), contemporary dramaturgy; transcultural literature in German; literary translation. - Nordic literatures: literature and society (19th-20th centuries); decadence, avant-garde and early modernism; value crisis, faith vs science, and the 'occult revival' in the late 19th century. Translation and reception of Nordic authors in other European countries; poetry and poetic trends; modernism and neoclassicism; poetry and the new media; theatre and cinema. Children's literature. Literature for children in the 20 <sup>th</sup> century.
<b>Information on references</b>	Min. 1-max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to luciana.vecile@unige.it in pdf format by the deadline of the call.
<b>Foreign Languages</b>	French, English, Polish, Portuguese, Russian, Spanish, Swedish, Norwegian, Danish, German During the interview, candidates must prove they confidently master the foreign languages used in their research projects. Nonetheless, they must show an advanced level of knowledge of at least one foreign language, and at least an instrumental knowledge of a second foreign language, chosen among those active in the doctoral course (French, English, Polish, Portuguese, Russian, Spanish, Swedish, Norwegian, Danish, German). Students' whose mother tongue is not Italian will have to show their knowledge of Italian, besides the language/s used

	in their research projects, which is necessary for a fruitful participation in the didactic activities.
<b>Further Information</b>	Only a limited number of applicants will be admitted to the online interview. Admission will be based on cv, MA dissertation, publications, and research project. The list of those admitted will be posted by 04/07/2020 on our site: <a href="https://corsi.unige.it/it/11023">https://corsi.unige.it/it/11023</a>

**Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES**

**Curriculum: ROMANCE AND SLAVIC LITERATURES (CODE 8225)**

<b>Coordinator:</b> Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 8 – <b>Grants:</b> 6 (*).	
(*) 5 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant financed by MIUR/DIRAAS funds. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. The number of grants (6) and that of places without grant (2) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	10.7.2020 – The interview will be held in telematic mode (Skype or Teams). Specific information about the interview will be give to admitted candidcates.
<b>Further information on how to present qualifications/pubblications</b>	The candidate's MA thesis and other publications (if any) will have to be sent to Prof. Luisa Villa: luisa.villa@unige.it in pdf format by the deadline of the call.
<b>Exam Syllabus</b>	The interview will be held in telematic mode. It will consist in a detailed presentation of the research project, which will highlight the applicant's scientific interests and experiences. The applicant's critical and argumentative skills will be evaluated. Knowledge of foreign languages as required (see "Lingue straniera" below) will also be tested.
<b>Research Themes</b>	Our PhD programme welcomes research projects on a variety of authors and works of French (17th-21rst centuries), Portuguese and Brazilian (19th-21rst centuries), Spanish (17th-21rst centuries), Polish (19th.21rst centuries) and Russian (18th-21rst centuries) literatures. Main fields of research: French literature: authors, genres and trends, especially with regard to 19th century poetry and poetics. Portuguese and Brazilian literatures: Fernando Pessoa and Portuguese modernism; José Cardoso Pires: literature and power during the Salazar regime; literature and censorship; memory and trauma; colonial warfare; Brazilian modernism; the representation of space in Brazilian regionalist novels; literature and the margin; Brazilian favelas; postcolonial studies: African literatures in Portuguese. Spanish literature: the literature of crisis: the essay and the novel after the loss of Cuba (1898); urban space in fiction (1850-2020); fictional subgenres and their hybridization in democratic Spain. Hispanic-American literatures: Literary figures and myths around the 1898 crisis; metropolitan space and violence; fiction and history in the 1980s. Polish literature and Jewish literatures. 1950s-2020. Main themes: gender and identity, women writers, literature and history, prison literature, autobiography; Jewish-Polish and Ashkenazi studies; also Jewish-Italian literature; imagology and self-representation. Russian studies: Humour studies; onomastics; literature and geography; space, travel, identity; women's literature; literature and emotion.
<b>Information on references</b>	Min. 1-max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to luciana.vecile@unige.it by the deadline of the call.
<b>Foreign Languages</b>	French, English, Polish, Portuguese, Russian, Spanish, Swedish, Norwegian, Danish, German. During the interview, candidates must prove they confidently master the foreign languages used in their research projects. Nonetheless, they must show an advanced level of knowledge of at least one foreign language, and at least an instrumental knowledge of a second foreign language, chosen among those active in the doctoral course (French, English, Polish, Portuguese, Russian, Spanish, Swedish, Norwegian, Danish, German). Students' whose mother tongue is not Italian will have to show their knowledge of Italian, besides the language/s used in their research projects, which is necessary for a fruitful participation in the didactic activities.

<b>Further Information</b>	Only a limited number of applicants will be admitted to the online oral examination. Admission will be based on cv, MA dissertation, publications, and research project. The list of those admitted will be posted by 04/07/2020 on our site: <a href="https://corsi.unige.it/it/11023">https://corsi.unige.it/it/11023</a>
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**Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES**

**Curriculum: SCIENCES OF CLASSICAL STUDIES (CODE 8226)**

<b>Coordinator:</b> Salmon Laura	
Department of Italian and Romance languages, Classical Studies, The Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 8 – <b>Grants:</b> 6 (*).	
(*) 5 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant financed by MIUR/DIRAAS funds. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. The number of grants (6) and that of places without grant (2) refers to the doctoral research course in its entirety and not to the single curriculum. The merit list, of the interview and the final list are one and the same for the entire doctoral course and not the single curricula. Candidates enrolled in more than one curriculum and who have been admitted to the interview may choose which exam to sit on the day of the exam.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	10.7.2020 – The interview will be held in telematic mode (Skype or Teams). Specific information about the interview will be give to admitted candidcates.
<b>Further information on how to present qualifications/pubblications</b>	The candidate's MA thesis and other publications (if any) will have to be sent to Prof. Franco Montanari: franco.montanari@unige.it in pdf format by the deadline of the call.
<b>Exam Syllabus</b>	The interview will be held in telematic mode. It will consist in a detailed presentation of the research project, which will highlight the applicant's scientific interests and experiences. The applicant's critical and argumentative skills will be evaluated. Knowledge of Greek or Latin -- as well as of Greek or Latin history -- is expected of applicants specializing in ancient history, while solid background knowledge in Greek or Roman archaeology is expected of applicants whose research project lies in the field of archaeology. Foreign-language skills as required (see 'Lingue straniere' below) will be tested.
<b>Research Themes</b>	- Greek civilization: historical, political, institutional, social, economic, religious and cultural aspects. - Roman civilization: historical, political, institutional, social, economic, religious and cultural aspects. - Greek and Roman archaeology and art history: methods of archaeological research.
<b>Information on references</b>	Min. 1-max. 3 reference letters by University lecturers or other experts are required. In the online application form the applicants will have to state their referees' names, qualifications and University affiliations. The referees will have to send their reference letters to luciana.vecile@unige.it by the deadline of the call.
<b>Foreign Languages</b>	English or French or Spanish or German During the oral test, for at least two of the abovementioned languages, candidates will have to show sufficient knowledge to translate a passage of a scientific publication. In case of ancient history research progeject, candidates must have an adequate knowledge of ancient Greek or Latin. Students' whose mother tongue is not Italian will have to show an adequate knowledge of Italian,
<b>Further Information</b>	Only a limited number of applicants will be admitted to the online oral examination. Admission will be based on cv, MA dissertation, publications, and research project. The list of those admitted will be posted by 04/07/2020 on our site: <b>XXXXXX</b>

**Course in: MATHEMATICS AND APPLICATIONS**

**Curriculum: MATHEMATICS AND APPLICATIONS (CODE 8227)**

<b>Coordinator:</b> Vigni Stefano	
Department of Mathematics (Dipartimento di Matematica – DIMA)	
<b>Places:</b> 5 – <b>Grants:</b> 5 (*).	
(*) 4 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant co-funded by MIUR/DIMA, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	1.7.2020 - 9.00 am at the University of Genova, Department of Mathematics (Dipartimento di Matematica – DIMA), via Dodecaneso 35, 16146 Genova. The interviews may continue on 2.7.2020. Candidates who are interested may request the interview to be held electronically (via Skype) by contacting Prof. Stefano Vigni ( <a href="mailto:vigni@dima.unige.it">vigni@dima.unige.it</a> ) at least 7 days before the assessment.
<b>Exam Syllabus</b>	The comparative assessment procedure consists in the assessment of qualifications/publications and in interview on the research project presented by the candidate.
<b>Further information on how to present qualifications/publications</b>	Besides the documentation listed in art. 3 of the public notice, candidates must present: - if available, their 5-year degree thesis (to be uploaded online). Furthermore: - their three-year degree and 5-year degree marks should be indicated in their curriculum; - a research project (2 pages max.) which describes the research theme they intend to work on during the Doctoral Course
<b>Research Themes</b>	- Harmonic and functional analysis - Mathematical logic and category theory - Commutative algebra - Complex projective geometry - Analytic number theory - Arithmetic geometry and algebraic number theory - Mathematical formulations of quantum mechanics and field theory - Probability and mathematical statistics - Numerical analysis, computational methods and applications
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:  Prof. Stefano Vigni Dipartimento di Matematica, Università di Genova via Dodecaneso 35 16146 Genova  or, alternatively, to the email address: <a href="mailto:vigni@dima.unige.it">vigni@dima.unige.it</a>  The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Prof. Stefano Vigni Dipartimento di Matematica, Università di Genova via Dodecaneso 35 16146 Genova GE E-mail: <a href="mailto:vigni@dima.unige.it">vigni@dima.unige.it</a>

**Course in: MATHEMATICS AND APPLICATIONS**

**Curriculum: MATHEMATICAL METHODS FOR THE ANALYSIS OF DATA (CODE 8228)**

<b>Coordinator:</b> Vigni Stefano	
Department of Mathematics (Dipartimento di Matematica – DIMA)	
<b>Places:</b> 4 (°) – <b>Grants:</b> 1 (*)	
(*) 1 grant from the Foundation of the Italian Institute of Technology (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(°) 3 places covered by research grants funded by the program H2020-MSCA-ITN-2019 dal titolo “Training Data-driven Experts in OPTimization”.	
Beneficiaries must be categorised as early-stage researchers (ESR), or they rather must be in their first 4 years of their research career at the date of the recruitment and not to have been already awarded a Phd degree before and satisfy the ‘mobility rule’: they must not have resided or carried out their main activity (work, study etc.) in Italy for more than 12 months in the three years prior to the date of recruitment.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	1.7.2020 - 9.00 am at the University of Genova, Department of Mathematics (Dipartimento di Matematica – DIMA), via Dodecaneso 35, 16146 Genova. The interviews may continue on 2.7.2020. Candidates who are interested may request the interview to be held electronically (via Skype) by contacting Prof. Stefano Vigni (vigni@dima.unige.it) at least 7 days before the assessment.
<b>Exam Syllabus</b>	The comparative assessment procedure consists in the assessment of qualifications/publications and in interview on the research project presented by the candidate.
<b>Further information on how to present qualifications/publications</b>	Besides the documentation listed in art. 3 of the public notice, candidates must present: - if available, their 5 year degree thesis (to be uploaded online).  Furthermore: - in their curriculum their three year degree and 5 year degree marks should be indicated; - a research project (2 pages max.) which describes the research theme they intend to work on during the Doctoral Course.
<b>Research Themes</b>	Research theme H2020-MSCA-ITN-2019, project n. 1: Fast iterative regularization through dynamical systems Goal: Establish a connection between continuous dynamical models with memory or delays and discrete time dynamical models in order to use them as iterative regularization procedures.  Research theme H2020-MSCA-ITN-2019, project n. 2: Exploiting geometry in optimization for data science Goal: Exploit structural properties of data driven problems to derive algorithms adapted to the modeling assumptions both from the design standpoint and the convergence one.  Research theme H2020-MSCA-ITN-2019, project n. 3 (at Camelot Biomedical Systems s.r.l.): Unsupervised features learning from multivariate time series Goal: New theoretical and algorithmic advances in unsupervised features learning from multivariate time series, and their translation into software packages to be inserted in software systems used by industrial partners to detect anomalies and objects.  IIT research theme Study of robust machine learning methods
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Stefano Vigni Dipartimento di Matematica, Università di Genova via Dodecaneso 35 16146 Genova or, alternatively, to the email address: vigni@dima.unige.it  The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Prof. Stefano Vigni Dipartimento di Matematica, Università di Genova

via Dodecaneso 35 16146 Genova GE E-mail: <a href="mailto:vigni@dim.unige.it">vigni@dim.unige.it</a>
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**Course in: EXPERIMENTAL MEDICINE****Curriculum: BIOCHEMISTRY (CODE 8229)**

<b>Coordinator:</b> Giambattista Bonanno	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
<b>Places:</b> 3 (°) – <b>Grants:</b> 2 (*).	
(*) 2 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved to employee of Archimede srl	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	2.7.2020 – 2.00 pm at the Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES), Biochemistry section, viale Benedetto XV 1st floor, Genova. The interview may take place at the request of the interested party or if the health situation makes it necessary, also in telematic mode. Candidates who request the telematic mode must contact prof.ssa Santina Bruzzone (santina.bruzzone@unige.it) at least 15 days before the interview. To this end, the candidate must have a reliable internet connection, in order to allow the test to take place.
<b>Exam Syllabus</b>	The interview will focus on several topics of General Biochemistry, the presentation of any previous research experience of the candidate for the preparation of the thesis, or other, and the assessment of the knowledge of the English language by reading and translating part of a scientific article.
<b>Research Themes</b>	Evaluating the therapeutic effect of new drugs for CFTR transporter correction in cells isolated from patients with Cystic Fibrosis. Study of viral glycosylation mechanisms.
<b>Information on references</b>	Candidates must choose no less than one and no more than three university professors or subject experts to support their candidature. These persons are required to send their reference letters, within the deadline of the call, to the the following address:  Prof. Santina Bruzzone University of Genova DIMES - Biochemistry Unit Viale Benedetto XV 1 16132 Genova  or, alternatively, to the e-mail address: <a href="mailto:santina.bruzzone@unige.it">santina.bruzzone@unige.it</a>  The personal details (name/surname, qualification, institution) of the persons chosen by the candidates must be reported in the application form.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Prof. Santina Bruzzone University of Genova DIMES - Biochemistry Unit Viale Benedetto XV 1 16132 Genova (+39) 0103538161 <a href="mailto:santina.bruzzone@unige.it">santina.bruzzone@unige.it</a> <a href="http://www.dms.unige.it">www.dms.unige.it</a>

**Course in: EXPERIMENTAL MEDICINE****Curriculum: PHARMACOLOGY AND TOXICOLOGY (CODE 8230)**

<b>Coordinator:</b> Giambattista Bonanno	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	30.06.2020 – 10.00 am at the Department of Pharmacy (Dipartimento di Farmacia – DIFAR), Pharmacology and Toxicology Section, III floor viale Cembrano 4, Genova. The interview may take place at the request of the interested party or if the health situation makes it necessary, also in telematic mode. Candidates who request the telematic mode must contact prof. Ernesto Fedele (ernesto.fedele@unige.it) at least 15 days before the interview. To this end, the candidate must have a reliable internet connection, in order to allow the test to take place.
<b>Exam Syllabus</b>	The interview will focus on the candidate's previous experiences – if any – in the field of scientific research or during the preparation of the final dissertation; there will be also a critical discussion on the research project presented by the candidate. The knowledge of English Language will be assessed by reading and commenting part of a scientific article.
<b>Research Themes</b>	Neuropharmacology, Neurotoxicology.
<b>Information on references</b>	Candidates must choose no less than one and no more than three university professors or subject experts to support their candidature. These persons are required to send their reference letters, within the deadline of the call, to the the following address:  Prof. Ernesto Fedele University of Genova DIFAR - Pharmacology and Toxicology Unit Viale Cembrano 4 16148 Genova  or, alternatively, at the e-mail address: fedele@difar.unige.it  The personal details (name/surname, qualification, institution) of the persons chosen by the candidates must be reported in the application form
<b>Foreign Languages</b>	English
<b>Further Information</b>	Prof. Ernesto Fedele University of Genova DIFAR - Pharmacology and Toxicology Unit Viale Cembrano 4 16148 Genova (+39 )0103532659 fedele@difar.unige.it www.dms.unige.it

**Course in: EXPERIMENTAL MEDICINE****Curriculum INTERNATIONAL CURRICULUM IN PHARMACOLOGY AND TOSSICOLOGY (CODE 8232)  
Curriculum in agreement with Maastricht University, Maastricht, The Netherlands.**

<b>Coordinator:</b> Giambattista Bonanno	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
At the end of the course a joint qualification will be awarded with Maastricht University, Maastricht, The Netherlands.	
An additional grant will be announced by the Maastricht University. The public notice of exam will be published at the address <a href="https://www.academictransfer.com/employer/UM/">https://www.academictransfer.com/employer/UM/</a> . Thus, there are overall two places available for the curriculum, 2 of which with grants.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	30.06.2020 – 10.00 am at the Department of Pharmacy (Dipartimento di Farmacia – DIFAR), Pharmacology and Toxicology Section, III floor, viale Cembrano 4, 16148 Genova. The interview may take place at the request of the interested party or if the health situation makes it necessary, also in telematic mode. Candidates who request the telematic mode must contact prof. Ernesto Fedele (ernesto.fedele@unige.it) at least 15 days before the interview. To this end, the candidate must have a reliable internet connection, in order to allow the test to take place.
<b>Exam Syllabus</b>	The interview (in English) will focus on the candidate's previous experiences – if any – in the field of scientific research or during the preparation of the final dissertation; there will be also a critical discussion on the research project presented by the candidate.
<b>Research Themes</b>	Neuropharmacology, neurotoxicology.
<b>Information on references</b>	Candidates must choose no less than one and no more than three university professors or subject experts to support their candidature. These persons are required to send their reference letters, within the deadline of the call, to the the following address:  Prof. Ernesto Fedele University of Genova DIFAR - Pharmacology and Toxicology Unit Viale Cembrano 4 16148 Genova  or, alternatively, at the e-mail address: fedele@difar.unige.it  The personal details (name/surname, qualification, institution) of the persons chosen by the candidates must be reported in the application form
<b>Foreign Languages</b>	English
<b>Further Information</b>	Prof. Ernesto Fedele Università di Genova Dipartimento di Farmacia (DIFAR) Viale Cembrano 4 16148 Genova (+39) 0103532659 fedele@difar.unige.it www.dms.unige.it

**Course in: EXPERIMENTAL MEDICINE****Curriculum: MOLECULAR AND CELLULAR PATHOLOGY OF AGE-RELATED DISEASES (CODE 8231)**

<b>Coordinator:</b> Giambattista Bonanno	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	8.7.2020 – 10.00 am at the Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES), Pathology Section, via L.B. Alberti 2, Genova. The interview may take place at the request of the interested party or if the health situation makes it necessary, also in telematic mode. Candidates who request the telematic mode must contact prof.ssa Cinzia Domenicotti (cinzia.domenicotti@unige.it) at least 15 days before the interview. To this end, the candidate must have a reliable internet connection, in order to allow the test to take place.
<b>Exam Syllabus</b>	Interdisciplinary, experimental, clinical methodologies and pharmaceutical and therapeutic themes concerning the pathology of ageing and age-related diseases.
<b>Research Themes</b>	Molecular and cellular alterations in ageing and in neurodegenerative pathologies. Ageing mechanisms of the sense organs. Molecular bases of neoplasias and resistance to drugs.
<b>Information on references</b>	Candidates must choose no less than one and no more than three university professors or subject experts to support their candidature. These persons are required to send their reference letters, within the deadline of the call, to the the following address:  Prof. Cinzia Domenicotti University of Genova DIMES - General Pathology Unit Via Leon Battista Alberti 2 16132 Genova  or, alternatively, to the e-mail address: cinzia.domenicotti@unige.it  The personal details (name/surname, qualification, institution) of the persons chosen by the candidates must be reported in the application form.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Prof. Cinzia Domenicotti University of Genova DIMES - General Pathology Unit Via Leon Battista Alberti 2 16132 Genova (+39) 0103538830 cinzia.domenicotti@unige.it www.dms.unige.it

**Course in: NEUROSCIENCES****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)****Curriculum: CLINICAL AND EXPERIMENTAL NEUROSCIENCES (CODE 8233)**

<b>Coordinator:</b> Schenone Angelo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOGMI)	
<b>Places:</b> 4– <b>Grants:</b> 4 (*)	
(*) 3 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant cofunded by MIUR/DINOGMI, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	10.7.2020 – 9.00 am Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Multi-media room, piano fondi, largo Paolo Daneo 3, Genova.  The admission test can be carried out in video conference instead of in presence, if the evolution of the pandemic from COVID 19 and the University guidelines make it necessary. In this case, information about the interview will be promptly communicated to the candidates.
<b>Further information on how to present qualifications/publications</b>	In the CV evaluation, the following items will be considered (according to relative importance): 1) Research project 2) Previous research work in the neuroscience field 3) Graduation score and degree thesis 4) Publications in scientific journals with IF 5) Recommendation letters 6) Prizes
<b>Exam Syllabus</b>	Description and defense of the research project proposed by the candidate
<b>Research Themes</b>	a) Neurology: multiple sclerosis and immunomediated neuropathies of the CNS and PNS, neuromuscular disorders, degenerative diseases of the central nervous system, epilepsy, sleep disorders, cerebrovascular diseases, extrapyramidal diseases and Parkinson’s disease. b) Psychiatry: affective disorders, convulsive obsessive disorder, schizophrenia and manic-depressive psychosis. c) Genetics of neurological disorders. d) Developmental neurology: epilepsy, child cerebral palsy, mental retardation, extrapyramidal diseases, autism, neuromuscular disorders. e) Neuroimages: studies of conventional MR on neurologic and psychiatric diseases. f) Neurophysiology and neurobiology: cellular and molecular mechanisms of synaptic transmission and plasticity, nanotechnologies applied to neurosciences. g) Biology of adult stem cells and their application in the treatment of neurological disorders. h) Neurooncology: cancer stem cells and their role in the development of brain tumors and their pharmacological characterization
<b>Information on references</b>	Candidates should provide at least one and no more than 3 recommendation letters in support of their application. Letters should be provided by University Professors of Experts in Neuroscience. Letters should be sent to the coordinator of the “Clinical and experimental Neuroscience curriculum”: Prof. Tullio Florio Dipartimento di Medicina Interna e specialità mediche (DIMI) Viale Benedetto XV, 2 16132 Genova or, alternatively, to the following e-mail address: tullio.florio@unige.it; or to Dr. Maria Paola Fenu: neurologia@neurologia.unige.it  Name and address of the scientists requested to send a recommendation letter should be clearly indicated in the admission request.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Further information can be requested to the coordinator of the “Clinical and experimental Neuroscience curriculum”: Prof. Tullio Florio (tullio.florio@unige.it) or to Dr. Maria Paola Fenu (neurologia@neurologia.unige.it)

**Course in: NEUROSCIENCES****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)****Curriculum: NEUROSCIENCES AND NEUROTECHNOLOGIES (CODE 8234)**

<b>Coordinator:</b> Schenone Angelo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINO GMI)	
<b>Places:</b> 7 (°) – <b>Grants</b> 5 (*).	
(*) 5 grants funded by the Istituto Italiano di Tecnologia (IIT), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(°) 2 specifically reserved to scholarship holders within the international mobility programme: H2020-MSCA-ITN-2019, ITN ENTRAIN VISION: European Network for integrated training on Innovative Therapies for Vision Restoration	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	The following documentation must be sent in the manner established in the competition notice: a) title and brief description of the degree thesis; b) list of exams taken, with marks; c) postgraduate research activities (including abstracts at conferences and scientific publications); d) an original research project in English signed by the candidate, on Neuroscience topics related to the research topics of the call, of a maximum of 10 pages (Arial 11 character). The project must include: Background, rationale, Experimental Plan, Expected Results, Timeline of the project, References.; e) names, qualification and place of employment of the referees not less than 1 and not more than 3, who must send the reference letters on the candidate directly to the email address: rossana.ciancio@iit.it; f) declaration of knowledge of English as used language in the doctoral school.
<b>Research Themes</b>	Here are listed the titles of research themes; to have an overview of complete research themes abstract go to: <a href="https://www.iit.it/phd-school">https://www.iit.it/phd-school</a>  1) Cellular mechanisms underlying sensory information processing Tutor: Tommaso Fellin; <a href="mailto:tommaso.fellin@iit.it">tommaso.fellin@iit.it</a>  2) Social Cognitive Circuits relevant to Neurodevelopmental Disorders Tutor: Francesco Papaleo; <a href="mailto:francesco.papaleo@iit.it">francesco.papaleo@iit.it</a>  3) Modeling and Molecular Dynamics Simulations of Tight-Junction Proteins in Biological Barriers Tutors: Fabio Benfenati and Luca Maragliano; <a href="mailto:luca.maragliano@iit.it">luca.maragliano@iit.it</a>  4) Physiopathology of experimental models of epilepsy and autism spectrum disorder: from causative genes to behavior. Tutors: Fabio Benfenati and Caterina Michetti; <a href="mailto:caterina.michetti@iit.it">caterina.michetti@iit.it</a>  5) Pharmacological approaches to treat core behaviors in neurodevelopmental disorders Tutor: Laura Cancedda; <a href="mailto:laura.cancedda@iit.it">laura.cancedda@iit.it</a>  Development of membrane-targeted azobenzene-based compounds for vision restoration. (project ENTRAIN VISION) Development and testing of organic nanoparticle-based light actuators for retinal applications (project ENTRAIN VISION)
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters in pdf format, within the deadline of the call, to the contact person of the Curriculum in Neuroscience and Brain Technologies, Prof. Fabio Benfenati, to the email address: <a href="mailto:rossana.ciancio@iit.it">rossana.ciancio@iit.it</a> .
<b>Foreign Languages</b>	English
<b>Further Information</b>	For further information, please write to: <a href="mailto:rossana.ciancio@iit.it">rossana.ciancio@iit.it</a>

**Course in: NEUROSCIENCES****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)****Curriculum: MOTORY AND SPORTS ACTIVITIES SCIENCES (CODE 8235)**

<b>Coordinator:</b> Schenone Angelo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*)	
(*) 2 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	8.7.2020 – 10.00 am – Video conference interview
<b>Further information on how to present qualifications/publications</b>	Evaluation of qualifications will concern: 1. Graduation marks of the second cycle (Master's) degree 2. Curriculum Vitae et Studiorum (included graduation thesis in pdf format) 3. Research experience at universities or research centers 4. Scientific publications 5. Research program submitted by the applicant
<b>Exam Syllabus</b>	The oral examination in videoconference will be divided in two parts: 1) a scientific interview on the research topics of this PhD program, and on the applicant's research project, that will be evaluated on the basis of project contents, design, feasibility, and relevance for research topics related to this notice of competition; and 2) a motivational interview
<b>Research Themes</b>	The main research topics concern: 1) Motor performance, motor learning and sensorimotor integration, movement kinematics, postural analysis, morphological and functional imaging 2) Sport performance: methodological approach to sport performance, relationships between physiological parameters, training and physical performance; sports nutrition.
<b>Information on references</b>	Applicants must submit from one to three Reference letters to support their application, which have to be sent to:  Prof. Piero Ruggeri, Sezione di Fisiologia Umana, Dipartimento di Medicina Sperimentale (DIMES), Viale Benedetto XV, n. 3, 16132 Genova. e-mail: ruggeri@unige.it Tel.: 010-3538185, Fax: 010-3538194  and to: Dott.ssa Maria Paola Fenu e-mail: neurologia@neurologia.unige.it
<b>Foreign Languages</b>	English
<b>Further Information</b>	Prof. Piero Ruggeri, Sezione di Fisiologia Umana, Dipartimento di Medicina Sperimentale (DIMES), Viale Benedetto XV, n. 3, 16132 Genova. e-mail: ruggeri@unige.it Tel.: 010-3538185, Fax: 010-3538194

Course in: HEALTH SCIENCES

Curriculum: BIOSTATISTICS AND METHODS FOR ANALYSIS OF BIG DATA (CODE 8236)

<b>Coordinator:</b> Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant financed by Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 9.00 am through the use of software that allows a remote video connection
<b>Further information on how to present qualifications/publications</b>	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
<b>Exam Syllabus</b>	The tests will focus on topics related to research topics.
<b>Research Themes</b>	<ol style="list-style-type: none"><li>1. Models for the study of prognostic factors, effect modifiers and surrogate endpoints</li><li>2. Meta analysis</li><li>3. Models for the study of disability trajectories</li><li>4. Methodological problems in the quantitative study of disease progression in chronic diseases</li><li>5. Early markers of prognosis and response to treatment</li><li>6. Methods for Big Data Analysis</li></ol>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Maria Pia Sormani at the following address: <a href="mailto:mariapia.sormani@unige.it">mariapia.sormani@unige.it</a> .  The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Administrative contact person: Giuseppe Zara Email: <a href="mailto:giuseppe.zara@unige.it">giuseppe.zara@unige.it</a>



**Course in: HEALTH SCIENCES****Curriculum: EPIDEMIOLOGY AND VACCINE PREVENTION (CODE 8237)**

<b>Coordinator:</b> Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 9.00 am through the use of software that allows a remote video connection
<b>Further information on how to present qualifications/publications</b>	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
<b>Exam Syllabus</b>	The tests will focus on topics related to research topics
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1. Epidemiology of communicable diseases preventable by vaccination - Design, organization and evaluation of systems clinical-epidemiological and virological surveillance - Design, standardization and evaluation of molecular techniques for the detection and characterization of microorganisms - Use of mathematical models to evaluate the impact of preventive interventions.</li> <li>2. Immunological response to vaccine preparations - Design, standardization and evaluation of techniques for determine humoral response - Determinants of cell-mediated response - Clinical studies on monovalent and combined vaccines, inactivated and living attenuated, differently adjuvanted, administered by injection and mucosal routes, designed to assess their safety, tolerability, immunogenicity and efficacy - Association of different vaccine preparations and use of alternative schedules - studies on filed for the evaluation of the effectiveness.</li> <li>3. Role of vaccinations in infants, children, adults and the elderly - Detection of vaccination coverage rates - Monitoring of preventable cases.</li> <li>4. Regulatory and authorization aspects of vaccines - Ethical evaluations.</li> </ol>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Giancarlo Icardi at the following address: <a href="mailto:icardi@unige.it">icardi@unige.it</a>.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	Administrative contact person: Giuseppe Zara Email: <a href="mailto:giuseppe.zara@unige.it">giuseppe.zara@unige.it</a>

**Course in: HEALTH SCIENCES****Curriculum: INFECTIOUS AND TROPICAL DISEASES (CODE 8238)**

<b>Coordinator:</b> Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 9.00 am through the use of software that allows a remote video connection
<b>Further information on how to present qualifications/publications</b>	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
<b>Exam Syllabus</b>	The tests will focus on topics related to research topics
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1. Infection in the immunocompromised host: epidemiological, diagnostic and therapy.</li> <li>2. Antibiotic resistance and nosocomial infections: surveillance, epidemiology and clinical management.</li> <li>3. HIV infection: immunological changes, opportunistic infections, antiretroviral therapy.</li> <li>4. Chronic liver disease HCV and related HBV</li> <li>5. Tuberculosis: epidemiology and drug resistance</li> </ol>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the coordinator of the Doctoral Course Prof Matteo Bassetti at the following address <a href="mailto:matteo.bassetti@unige.it">matteo.bassetti@unige.it</a></p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	Administrative contact person: Giuseppe Zara Email: <a href="mailto:giuseppe.zara@unige.it">giuseppe.zara@unige.it</a>

Course in: HEALTH SCIENCES

Curriculum: FORENSIC AND OCCUPATIONAL MEDICINE (CODE 8239)

<b>Coordinator:</b> Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant co-financed on MIUR/DISSAL funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 9.00 am through the use of software that allows a remote video connection
<b>Further information on how to present qualifications/publications</b>	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
<b>Exam Syllabus</b>	The tests will focus on topics related to research topics.
<b>Research Themes</b>	<p>Legal Medicine Topics:</p> <ol style="list-style-type: none"> <li>1) Management of medico-legal litigation in the health sector, with particular reference to damage from medical error and to the evaluation and prevention of nosocomial infections.</li> <li>2) Diagnosis of death, prevention and research applied to the study of the corpse subjected to diagnostic verification and judicial autopsy, with particular reference to sudden deaths from cardiac causes and suicides.</li> <li>3) Study and evaluation of the victim of sexual violence with the application of consolidated multidisciplinary protocols.</li> <li>4) Study and evaluation of the victim of abuse in the family with particular reference to the abuse of the elderly, women and children.</li> <li>5) Individual identification on living, corpse and biological traces, through the study of DNA.</li> <li>6) Clinical Legal Medicine with particular evaluation of the incapable patient.</li> <li>7) Evidence Based Medicine applied to Forensic Medicine.</li> </ol> <p>Occupational Medicine Topics:</p> <ol style="list-style-type: none"> <li>1) Work hygiene</li> <li>2) Assessment and prevention of occupational biological risk, with particular reference to the health service</li> <li>3) Assessment and prevention of chemical and carcinogenic risks in the workplace, with particular reference to the health service</li> <li>4) Occupational immunoprophylaxis</li> <li>5) Evidence Based Medicine applied to Occupational Medicine</li> <li>6) Study and validation of new digital tools for epidemiological surveillance of accidents at work and occupational diseases</li> <li>7) Allergology and specific immunotherapy in the workplace</li> <li>8) Study and prevention of night obstructive apnea syndrome (OSAS) in the occupational field</li> </ol>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Francesco De Stefano at the following address: <a href="mailto:fdestefano@unige.it">fdestefano@unige.it</a>.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>Administrative contact person: Giuseppe Zara Email: giuseppe.zara@unige.it</p>

Course in: HEALTH SCIENCES

Curriculum: NURSING (CODE 8240)

<b>Coordinator:</b> Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
<b>Places:</b> 1 – <b>Grants:</b> 0	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 9.00 am through the use of software that allows a remote video connection
<b>Further information on how to present qualifications/publications</b>	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
<b>Exam Syllabus</b>	The tests will focus on topics related to research topics.
<b>Research Themes</b>	<ol style="list-style-type: none"><li>1. Patient safety and prevention of the risk of error in the care processes.</li><li>2. Prevention of education and assistance to the person with chronic health problems</li><li>3. Family and Patient Centred Care and Child and family Centred Care</li><li>4. Innovative models for health skills training.</li></ol>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Annamaria Bagnasco all'indirizzo: <a href="mailto:annamaria.bagnasco@unige.it">annamaria.bagnasco@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Administrative contact person: Giuseppe Zara Email: giuseppe.zara@unige.it

**Course in: HEALTH SCIENCES****Curriculum: PREVENTION OF CANCER AND OF CHRONIC DEGENERATIVE DISEASES (CODE 8241)**

<b>Coordinator:</b> Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
<b>Places:</b> 2 (°) – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved for the employees of Fondazione Acquario di Genova Onlus	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 9.00 am through the use of software that allows a remote video connection
<b>Further information on how to present qualifications/publications</b>	Remember that by qualifications we mean the information contained in the application and in the curriculum vitae et studiorum, the research project, the further qualifications. The latter must not exceed ten pages each.
<b>Exam Syllabus</b>	The tests will focus on topics related to research topics.
<b>Research Themes</b>	<ol style="list-style-type: none"><li>1. Molecular epidemiology of tumors and other chronic degenerative diseases</li><li>2. Dietary and pharmacological prevention of tumors</li><li>3. Prevention of cardiovascular diseases, ophthalmological pathologies and neurogenerative forms</li><li>4. Molecular alterations and tumors induced by cigarette smoking and their prevention</li><li>5. Study of factors of genetic predisposition to tumors</li></ol>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Doctoral Course Prof. Alberto Izzotti at the following address: <a href="mailto:izzotti@unige.it">izzotti@unige.it</a> .  The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Administrative contact person: Giuseppe Zara Email: <a href="mailto:giuseppe.zara@unige.it">giuseppe.zara@unige.it</a>

**Course in: MARINE SCIENCES AND TECHNOLOGIES****Curriculum: LOGISTICS AND TRANSPORTATION (CODE 8245)**

<b>Coordinator:</b> Ferrari Claudio	
Centro del Mare	
<b>Places:</b> 4 – <b>Grants:</b> 4 (*).	
(*) of which 3 grants funded by Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) of which 1 funded by Compagnia di San Paolo, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6.7.2020 - 10.00 am.  Due to the Covid-19 emergency, interviews will be carried out via skype. Candidates are invited to email their skype account to <a href="mailto:cieli@unige.it">cieli@unige.it</a>
<b>Further information on how to present qualifications/ publications</b>	Qualifications and publications must be attached to the application form
<b>Exam syllabus</b>	The interview will focus on the knowledge of the transport sector in its multidisciplinary aspects and the candidate's aptitude for scientific research. In addition, candidates will be requested to read and comprehend a scientific text in English.
<b>Research topics</b>	<ol style="list-style-type: none"> <li>1. Competition and regulation in transport sector and in the construction and management of transport infrastructures</li> <li>2. State aids in transport and transport infrastructures</li> <li>3. Green strategies and green products for cruise lines and shipping companies</li> <li>4. Energy management systems and green issues in the port sector</li> <li>5. Distribution channels and related marketing strategies in coastal and cruise tourism</li> <li>6. Crisis management, social media marketing and sentiment analysis for transport</li> <li>7. Optimization of the operations in intermodal nodes</li> <li>8. Management of transport system in case of infrastructure disruption.</li> <li>9. Optimal use of infrastructure and transport service</li> <li>10. Dynamic programming models</li> </ol>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the following addresses: <a href="mailto:cieli@unige.it">cieli@unige.it</a> and <a href="mailto:claudio.ferrari@economia.unige.it">claudio.ferrari@economia.unige.it</a></p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p> <p>All the reference letters must be written following specific instructions or they will not be taken into consideration.</p>
<b>Foreign Languages</b>	English

**Course in: MARINE SCIENCES AND TECHNOLOGIES****Curriculum: MARINE ECOSYSTEM SCIENCES (CODE 8247)**

<b>Coordinator:</b> Ferrari Claudio	
Centro del Mare	
<b>Places</b> 3 (°) – <b>Grants:</b> 2 (*).	
(*) 2 funded by Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(°) 1 place reserved to employees of Costa Edutainment	
<b>Comparative Assessment procedures</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	9.7.2020 – at 10:00 a.m. – Dipartimento di Scienze della Terra dell’Ambiente e della Vita (DISTAV), Palazzo delle Scienze, Prof. Vezzulli office, 4th floor, Corso Europa 26, Genova. The interview can take place on request also electronically (video conference via SKYPE) by contacting the Prof. Luigi Vezzulli at least a week before by e-mail (luigi.vezzulli@unige.it)
<b>Exam syllabus</b>	The interview will focus on the discussion of the candidate's curriculum and the research project with particular reference to the relevance of the proposed activities with the research themes of the doctorate, the scientific content, the innovativeness and the feasibility of their realization.
<b>Research topics</b>	Priority research topics will concern: (a) the marine microbiology sector and in particular the study of biology, ecology and epidemiology of marine vibrios through genomic, metagenomic approaches and the development and integration of bioinformatics pipelines, (b) the marine biotechnology sector and in particular the study of marine biodiversity for the identification and development of new molecules, components and biomaterials of potential interest in the environmental, biomedical and industrial fields. Non-priority research topics may also concern basic and applied aspects relevant for the study and conservation of marine biodiversity, the protection and enhancement of coastal and oceanic ecosystems, the management and mitigation of coastal risk and environmental monitoring, development and application. marine biotechnology, analysis and control of risks to the health of marine ecosystems (also in relation to human health) and the sustainable exploitation of marine ecosystem resources and services.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their application. The referees must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the call, to the following email address: luigi.vezzulli@unige.it In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons they have chosen.
<b>Foreign Languages</b>	English

**Course in: MARINE SCIENCES AND TECHNOLOGIES**

**Curriculum: NAVAL ARCHITECTURE AND MARINE ENGINEERING - MARINE TECHNOLOGIES (CODE 8244)**

<b>Coordinator:</b> Ferrari Claudio	
Centro del Mare	
<b>Places:</b> 4 – <b>Grants:</b> 4 (*).	
<p>(* ) 2 grants funded by Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.</p> <p>(* ) 1 grant funded by Compagnia di San Paolo, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.</p> <p>(* ) 1 grant funded by Fincantieri SpA, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.</p>	
<b>Comparative assessment procedures</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	<p>10.7.2020 – at 9:00 presso il Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Polo Navale, via Montallegro 1, Genova.</p> <p>The interview can take place on request also electronically (video conference via SKYPE) by contacting the Prof.Cesare M.Rizzo at least a week before by e-mail (<a href="mailto:cesare.rizzo@unige.it">cesare.rizzo@unige.it</a>)</p>
<b>Further information on how to present qualifications/publications</b>	<p>Applicants will:</p> <ol style="list-style-type: none"> <li>1) submit a research project (maximum 10 A4 pages);</li> <li>2) an updated CV;</li> </ol> <p>Italian candidates not yet graduated must present the list with a score of the exams taken in the master degree.</p>
<b>Exam syllabus</b>	The interview will focus on the topics of the research project and the related topics.
<b>Research Themes</b>	<p>The research topics concern the conception, design, construction and operation of mobile and fixed marine units, surface and underwater, both conventional and non-conventional, with particular reference to the process of synthesis and integration of the various aspects involved and generally through a multidisciplinary approach. The following issues can be identified:</p> <ol style="list-style-type: none"> <li>1. Processing of hull shapes, balance, static and dynamic stability</li> <li>2. Resistance to motion, seaworthiness, maneuverability and dynamic positioning</li> <li>3. Performance of the engines</li> <li>4. Analysis of environmental actions, loads and static and dynamic structural response, including fluid / structure interaction (FSI)</li> <li>5. Degradation, inspection and maintenance of shipbuilding; structural integrity and longevity</li> <li>6. Propagation of noise in the structure and outside: in the air, in the water</li> <li>7. Technological processes for naval and marine construction and for their operation</li> <li>8. Conventional and unconventional materials and joints, intact and damaged</li> <li>9. Development of innovative project methodologies and tools and their implementation in technical regulations</li> <li>10. Mechanical drives and transmissions for naval systems and their performance</li> <li>11. Technical management in operation of shipbuilding</li> <li>12. Platforms for offshore renewable energy production</li> <li>13. Energy efficiency and innovative propulsion systems</li> <li>14. Modeling and simulation of naval systems</li> <li>15. Control and optimization of naval energy systems</li> <li>16. Autonomous navigation systems</li> <li>17. Reliability and safety of marine structures</li> <li>18. Reliability, availability and security of systems</li> <li>19. Diagnostics and prognostics aimed at the maintenance of naval systems</li> <li>20. Integration of the human factor into the projects on safety and ship's operations.</li> </ol>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their application. These contacts must be university professors or experts in the subject. They will be responsible for sending the reference letters, within the deadline of the notice, to the contact person of the curriculum at the following address: <a href="mailto:cesare.rizzo@unige.it">cesare.rizzo@unige.it</a>.</p> <p>In the application, candidates must indicate their name, qualification and place of employment of the chosen contact persons.</p>
<b>Further</b>	Candidates are required to sign and send to the Commission, during the interview, a specific non-



<b>information</b>	disclosure agreement as required within the agreement between the University of Genoa and Fincantieri SpA, the scholarship funding body.
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Course in: MARINE SCIENCES AND TECHNOLOGIES

Curriculum: ENGINEERING FOR MARINE AND COASTAL ENVIRONMENTS (CODE 8243)

<b>Coordinator:</b> Ferrari Claudio	
Centro del Mare- Sea centre	
<b>Posti:</b> 2 – <b>Borse:</b> 2 (*)	
(*) 1 grant funded by Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by Compagnia di San Paolo, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedures</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	8.7.2020 – ore 9:00 presso il Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Biblioteca Baldacci.  The interview may also take place electronically, on candidates' request or if necessary due to health situation. Candidates by contacting the doctoral secretarial staff ( <a href="mailto:dottorato.dicca@unige.it">dottorato.dicca@unige.it</a> ) and Prof. Giovanni Besio ( <a href="mailto:giovanni.besio@unige.it">giovanni.besio@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.  Interviews may continue on the following day, July, 13 at 9.00 am.
<b>Further information on how to present qualifications/publications</b>	The application (curriculum) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees). Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career. The knowledge of foreign languages proved by an international certificate (TOEFL, CPE, CAE, FCE, ...) and attached to the cv would be an asset.
<b>Exam syllabus</b>	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
<b>Research themes</b>	The topics are those addressed in the curriculum "Engineering for Marine and Coastal Environments" described in detail in the course web page: <a href="http://dottorato.dicca.unige.it/eng/emaces">http://dottorato.dicca.unige.it/eng/emaces</a> . The research project, of a maximum of 10 pages, must highlight the applicant's motivations and research interests and contain a summary, a state of the art completed by the relevant publications, and the objectives of the research activity.
<b>Information on references</b>	Candidates must choose not less than one and not more than three contacts to support their application. One of the contact persons must be a member of the curriculum committee ( <a href="http://dottorato.dicca.unige.it/eng/info/staff/comitatoemaces.html">http://dottorato.dicca.unige.it/eng/info/staff/comitatoemaces.html</a> ) with whom the research project has been agreed. It will be the responsibility of the referents to send the letters of reference, within the deadline of the call, to the doctoral secretariat <a href="mailto:dottorato.dicca@unige.it">dottorato.dicca@unige.it</a> and to the coordinator of the curriculum <a href="mailto:giovanni.besio@unige.it">giovanni.besio@unige.it</a> . In the application form, candidates must indicate the name, qualification and place of employment of their chosen reference persons. Letters of reference that are not submitted as requested will not be taken into consideration.
<b>Foreign languages</b>	English
<b>Further information</b>	<a href="http://dottorato.dicca.unige.it/eng/emaces/">http://dottorato.dicca.unige.it/eng/emaces/</a> prof. Giovanni Besio <a href="mailto:giovanni.besio@unige.it">giovanni.besio@unige.it</a>

**Course in: MARINE SCIENCES AND TECHNOLOGIES**

**Curriculum: FLUID MACHINES AND ENERGY SYSTEMS FOR MARITIME APPLICATIONS (CODE 8246)**

<b>Coordinator:</b> Ferrari Claudio	
Centro del Mare	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 funded by Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Research themes</b>	Machines and energy systems for marine propellers and for the production and conversion of electricity on board and at the dock; systems with a low environmental impact and using clean fuels, renewable energy given by the sea.
<b>Information on the references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Doctorate Coordinator, to Prof. Aristide Massardo, to the following address: massardo@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English

**Course in: MARINE SCIENCES AND TECHNOLOGIES****Curriculum: NAVAL AND NAUTICAL DESIGN (CODE 8242)**

<b>Coordinator:</b> Ferrari Claudio	
Centro del Mare	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 1 grant funded by Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant funded by Compagnia di San Paolo, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedures</b>	QUALIFICATIONS AND INTERVIEW
<b>Interview</b>	13.7.2020 – at 10:00 am presso il Dipartimento di Architettura e Design (DAD), Stradone di Sant'Agostino, 37, Genova. Due to the Covid-19 emergency, interviews can be carried out via skype. Candidates are invited to send their skype account by email to prof. Zignego (mario.ivan.zignego@unige.it )
<b>Research themes</b>	Industrialization of the nautical product Sustainability of the nautical product Enhancement of the existing nautical heritage
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. One of the referees should be the professor, belonging to the curriculum board, who has helped the candidate with the project choice ( <a href="http://dottorato.dicca.unige.it/ita/index.html">http://dottorato.dicca.unige.it/ita/index.html</a> ). The referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to Prof. Ivan Zignego to the following address: zignego@arch.unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English

**Course in: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia - IIT)****Curriculum: DRUG DISCOVERY AND NANOBIOLOGICALS (CODE 8248)**

<b>Coordinator:</b> Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
<b>Places:</b> 5– <b>Grants:</b> 5 (*)	
(*) 5 grants funded by the Istituto Italiano di Tecnologia - IIT (Foundation of the Italian Institute of Technology), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
<b>Comparative assessment procedure</b>	<b>QUALIFICATIONS/PUBLICATIONS</b>
<b>Further information on how to present qualifications/publications</b>	<p>Evaluable qualifications:</p> <ol style="list-style-type: none"><li>1. educational qualifications with marks;</li><li>2. transcript of records (list of exams with marks);</li><li>3. recommendation letters (maximum three);</li><li>4. research project written in English;</li><li>5. curriculum vitae et studiorum;</li><li>6. additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards).</li></ol> <p>All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams.</p> <p>Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University.</p> <p>In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.</p>
<b>Research Themes</b>	<ol style="list-style-type: none"><li>1. Design and synthesis of modulators of protein activity.</li><li>2. Nanomedicines for chronic inflammatory diseases.</li><li>3. Development of colorimetric nanosensors for on-field diagnostics (3 positions available).</li></ol>
<b>Information on references</b>	<p>Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by email to phd_d3@iit.it (subject: PhD_letter).</p> <p>The name, status and place of employment of the authors of the recommendation letters must be stated in the application.</p>
<b>Further Information</b>	<p>Dr. Tiziano Bandiera tiziano.bandiera@iit.it</p> <p>Prof. Paolo Decuzzi paolo.decuzzi@iit.it</p> <p>Dr. Pier Paolo Pompa pierpaolo.pompa@iit.it</p> <p>Administrative contact person Dr. Francesca Razzetti (+39) 0102896772 francesca.razzetti@iit.it</p>

**Course in: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia - IIT)****Curriculum: NANOCHEMISTRY (CODE 8249)**

<b>Coordinator:</b> Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
<b>Places:</b> 12 (°)– <b>Grants:</b> 10 (*).	
(*) 10 grants funded by the Istituto Italiano di Tecnologia - IIT (Foundation of the Italian Institute of Technology), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
(°) 2 places covered by research grants funded by the program H2020-MSCA Actions, Grant Agreement N. 860942 – HeatNMof. Salary will be paid in accordance with the general conditions of the Marie Skłodowska Curie Actions-ITN projects. Beneficiaries must be categorised as early-stage researchers (ESR), or they rather must be in their first 4 years of their research career at the date of the recruitment and not to have been already awarded a Phd degree before and satisfy the ‘mobility rule’: they must not have resided or carried out their main activity (work, study etc.) in the country of the host institution for more than 12 months in the three years prior to the date of recruitment. Positions are published also on <a href="http://www.iit.it/careers/openings/opening/1191">www.iit.it/careers/openings/opening/1191</a>	
<b>Comparative assessment procedure</b>	<b>QUALIFICATIONS/PUBLICATIONS</b>
<b>Further information on how to present qualifications/publications</b>	<p>Evaluable qualifications:</p> <ol style="list-style-type: none"> <li>1. educational qualifications with marks;</li> <li>2. transcript of records (list of exams with marks);</li> <li>3. recommendation letters (maximum three);</li> <li>4. research project written in English;</li> <li>5. curriculum vitae et studiorum;</li> <li>6. additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards).</li> </ol> <p>All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams.</p> <p>Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University.</p> <p>In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.</p>
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1. Generation and characterization of new 2D layered perovskites for switchable optoelectronics</li> <li>2. Development of perovskite-based heterostructured nanocrystals for optoelectronic applications.</li> <li>3. Development of new materials for energy related applications (2 positions available).</li> <li>4. Optical and electronic low-dimensional nanomaterial devices.</li> <li>5. Development of light-driven nanocapacitors.</li> <li>6. Nanomaterials for classical and non-classical light-sources.</li> <li>7. Novel methods and materials for light-emitting diodes.</li> <li>8. Lithium-sulphur batteries for aerospace applications.</li> <li>9. Nano-rectenna devices for space applications.</li> <li>10. Engineering the surface of magnetic nanoparticles with metal organic framework (on project HeatNMOF).</li> <li>11. Magnetic nanocomposites for alternating magnetic field-triggered drug release and related cellular study (on project HeatNMOF, 2 positions available).</li> </ol>
<b>Information on references</b>	<p>Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by email to <a href="mailto:phd_nach@iit.it">phd_nach@iit.it</a> (subject: PhD_letter).</p> <p>The name, status and place of employment of the authors of the recommendation letters must be stated in the application.</p>
<b>Further Information</b>	<p>Administrative contact person</p> <p>Dr. Iulia Manolache</p> <p>Tel: (+39) 0102896718</p> <p><a href="mailto:iulia.manolache@iit.it">iulia.manolache@iit.it</a></p>

**Course in: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia - IIT)****Curriculum: SCIENCE AND TECHNOLOGY OF MATERIALS (CODE 8250)**

<b>Coordinator:</b> Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant co-financed by MIUR/DIFI, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 – 9 am at the Department of Physics (DIFI), via Dodecaneso 33, Genova. The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the purpose of identification, the candidate has to show the original document (the same provided in the application). The justified request for videoconferencing must be sent no later than 6/7/2020 by e-mail to relini@fisica.unige.it (subject: PhD_interview).
<b>Further information on how to present qualifications/publications</b>	<p>Evaluable qualifications:</p> <ol style="list-style-type: none"> <li>1. educational qualifications with marks;</li> <li>2. transcript of records (list of exams with marks);</li> <li>3. recommendation letters (maximum three);</li> <li>4. research project written in Italian or English;</li> <li>5. curriculum vitae et studiorum;</li> <li>6. additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards).</li> </ol> <p>All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams.</p> <p>Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University.</p> <p>In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.</p>
<b>Exam Syllabus</b>	The candidate will discuss with the Committee the research project he/she has presented. The Committee will evaluate the research project for its originality, feasibility, methodology, timeline and relevance within the research topics listed in the call. In this way the Committee will be able to evaluate the candidate's attitude to develop a scientific project. During the presentation the Committee will ascertain the candidate knowledge of English language.
<b>Research Themes</b>	Experimental investigation and modelling of metallic, ceramic, polymeric, composite, biomolecular and biocompatible materials. Correlations between methods of production (synthesis, film deposition, crystal growth), structural, morphological, chemical-physical characteristics and functional properties will be studied. As regards the functional aspects, materials for photonics and plasmonics, high temperature superconductors, materials for hydrogen production and storage, heterogeneous catalyst materials, electronic and magnetic devices, protective coatings, biomaterials will be studied. Characterization will concern structural, electronic and morphologic properties of materials even in the form of thin and ultrathin films and multilayers, with regard to growth and nanostructuring mechanisms. Crystal-chemical, electrochemical, thermal, magnetic and transport properties, and the microscopic study of tribological processes will also be considered. The technological aspects of new industrial, environmental and metallurgical catalytic processes will be studied and developed. All the above-mentioned themes will be developed both in basic and applied research (industrial processes, sensors, devices, conservation of cultural heritage etc.).
<b>Information on references</b>	Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by email to relini@fisica.unige.it (subject: PhD_letter). The name, status and place of employment of the authors of the recommendation letters must be stated in the application.
<b>Foreign Languages</b>	English

<b>Further Information</b>	<p>Prof. Annalisa Relini (+39) 0103536427 relini@fisica.unige.it</p> <p>Administrative contact person Mrs. Noemi Pretelli (+39) 0103538752 noemi@chimica.unige.it</p>
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**Course in: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia - IIT)****Curriculum: CHEMICAL SCIENCES AND TECNOLOGIES (CODE 8251)**

<b>Coordinator:</b> : Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
<b>Places:</b> 6 – <b>Grants:</b> 6 (*).	
(*) 5 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
(*) 1 grant financed from SIMAM SpA (Servizi Industriali Ambientali e Manageriali), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	13.7.2020 – 9.00 am at the Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI), via Dodecaneso 31, Genova. The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the purpose of identification, the candidate has to show the original document (the same provided in the application). The justified request for videoconferencing must be sent no later than 6/7/2020 by e-mail to grotti@unige.it (subject: PhD_interview).
<b>Further information on how to present qualifications/publications</b>	Evaluable qualifications: 1. educational qualifications with marks; 2. transcript of records (list of exams with marks); 3. recommendation letters (maximum three); 4. research project written in Italian or English; 5. curriculum vitae et studiorum; 6. additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards).  All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams. Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University. In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.
<b>Exam Syllabus</b>	The candidate will discuss with the Committee the research project he/she has presented. The Committee will evaluate the research project for its originality, feasibility, methodology, timeline and relevance within the research topics listed in the call. In this way the Committee will be able to evaluate the candidate's attitude to develop a scientific project. During the presentation the Committee will ascertain the candidate knowledge of English language.
<b>Research Themes</b>	1. Chemistry and physical chemistry of photoactive materials. 2. Nanoparticles for technological applications. 3. Synthesis and study of the crystal-chemical, thermal, magnetic and transport properties of oxides, nitrides and carbides. 4. Determination of chemical species of environmental and oceanographic interest. 5. Development of innovative chromatographic methodologies coupled to mass spectrometry. 6. Analytical chemistry of trace elements. 7. Chemistry of the polar environments. 8. Diversity-oriented synthesis of biologically active compounds by chemical, enzymatic and organocatalytic reaction pathways. 9. Synthesis and reactivity of heterocyclic compounds. 10. Phase equilibria and thermodynamics of metallic materials: experimental and theoretical aspects. 11. Intermetallic compounds: synthesis, structure, properties and technological applications. 12. Advanced metallic materials. 13. Inorganic materials (metallic and refractory) for renewable energies. 14. Polymeric, hybrid and nanocomposite materials. 15. Polymer nanostructures for photonics. 16. Membranes and membrane processes. 17. Chemistry for the study and conservation of cultural heritage.

	18. Application of emerging membrane processes to the treatment of polluted water. (specific for grant financed by SIMAM SpA)
<b>Information on references</b>	Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by email to grotti@unige.it (subject: PhD_letter). The name, status and place of employment of the authors of the recommendation letters must be stated in the application.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Prof. Marco Grotti (+39) 0103538708 grotti@unige.it  Administrative contact person Mrs. Noemi Pretelli (+39) 0103538752 noemi@chimica.unige.it

**Course in: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia - IIT)****Curriculum: PHARMACEUTICAL, NUTRITIONAL AND COSMETIC SCIENCES (CODE 8252)**

<b>Coordinator:</b> Riva Renata	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)	
<b>Places:</b> 4 – <b>Grants:</b> 3 (*).	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 - 9.00 am at the Department of Pharmacy (Dipartimento di Farmacia – DIFAR, former venue of DISCIFAR), viale Benedetto XV 3, 16132 Genova. The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the purpose of identification, the candidate has to show the original document (the same provided in the application). The justified request for videoconferencing must be sent no later than 6/7/2020 by e-mail to: tonelli@difar.unige.it (subject: PhD_interview).
<b>Further information on how to present qualifications/publications</b>	<p>Evaluable qualifications:</p> <ol style="list-style-type: none"> <li>1. educational qualifications with marks;</li> <li>2. transcript of records (list of exams with marks);</li> <li>3. recommendation letters (maximum three);</li> <li>4. research project written in Italian or English;</li> <li>5. curriculum vitae et studiorum;</li> <li>6. additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards).</li> </ol> <p>All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams.</p> <p>Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University.</p> <p>In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.</p>
<b>Exam Syllabus</b>	The candidate will discuss with the Committee the research project he/she has presented. The Committee will evaluate the research project for its originality, feasibility, methodology, timeline and relevance within the research topics listed in the call. In this way the Committee will be able to evaluate the candidate's attitude to develop a scientific project. During the presentation the Committee will ascertain the candidate knowledge of English language.
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1. Rational design and synthesis of biologically active compounds with potential interest as antineoplastics, antivirals, antimicrobials, CFTR modulators, and for the treatment of CNS and peripheral system diseases.</li> <li>2. Advanced computational methods applied to drug-target interaction study.</li> <li>3. Characterization and valorization of food, dietetic products and food supplements. Extraction, development and formulation of new food ingredients and/or foods.</li> <li>4. Design and synthesis of hydrophilic and amphiphilic biodegradable polyester-based dendrimers, functionalized for solubilization in biocompatible solvents of natural or synthetic insoluble drugs and their applications in drug delivery and nanomedicine.</li> <li>5. Design and development of micro- and nanodispersed systems or bioadhesive matrixes for drug delivery.</li> <li>6. Spectroscopic and hyperspectral-imaging methods for food and environmental applications. Development and application of chemometric methods of multivariate analysis and experimental design.</li> <li>7. Research of new biologically active phytochemicals.</li> <li>8. Trace metals and human health (environment, food, drugs).</li> <li>9. Application of microwave technology and solvent free reactions in organic and inorganic syntheses, in extractive procedures according to the targets of green chemistry and green extractions for the preparation of bioactive cosmetic and pharmaceutical compounds. A particular focus is the exploitation of botanical matrices especially from agrofood byproducts.</li> <li>10. Preparation, characterization and development of pharmaceutical and galenic dosage forms.</li> </ol>

<b>Information on references</b>	Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by email to <a href="mailto:tonelli@difar.unige.it">tonelli@difar.unige.it</a> (subject: PhD_letter). The name, status and place of employment of the authors of the recommendation letters must be stated in the application.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Prof. Michele Tonelli (+39) 0103538378 <a href="mailto:tonelli@difar.unige.it">tonelli@difar.unige.it</a>  Administrative contact person Mrs. Noemi Pretelli (+39) 0103538752 <a href="mailto:noemi@chimica.unige.it">noemi@chimica.unige.it</a>

**Course in: SCIENCE AND TECHNOLOGY FOR THE ENVIRONMENT AND TERRITORY (STET)**

**Curriculum: BIOLOGY APPLIED TO AGRICULTURE AND THE ENVIRONMENT (CODE 8253)**

<b>Coordinator:</b> Scambelluri Marco	
Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita – DISTAV)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. (*) 1 grant co-financed by MIUR/DISTAV, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 - 9:30 am at the Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della terra, dell'ambiente e della vita – DISTAV), Room Perrier, corso Europa 26, Genova. The interviews may eventually continue on 15 July 2020. The interview can also take place on request in remote mode (SKYPE) by contacting the manager of the curriculum in advance. Prof. Mauro Mariotti Dipartimento di Scienze della Terra dell'Ambiente e della Vita (DISTAV) (+39) 010353139 m.mariotti@unige.it
<b>Further information on how to present qualifications/publications</b>	It should be noted that the choice of the theme of the research project does not give rise to any differentiated legal position for the PhD student regarding the subject of the research activity that will be carried out during the doctoral course on the indication of the Academic Board.  Qualifications are all information contained in the application and in the documents attached to it. The application must include:  a) the curriculum vitae et studiorum of the PhD candidate (maximum ten pages); b) a detailed research project concerning one of the Doctorate Research themes published in the official call for the XXXVI Doctorate Cycle in Science and Technology for the Earth and the Environment of the Genova University (maximum ten pages); c) a document containing the title and a brief description of the Master's thesis, together with the list of exams and their marks; d) the titles documenting the qualifications acquired by the PhD candidate during his/her career that are relevant to the research project submitted and to the Doctorate Course (maximum ten pages); e) minimum one, up to three reference letters.  PhD candidates can apply in English and Italian.
<b>Exam Syllabus</b>	The interview will deal with: 1- the knowledge of biological themes and processes. The topics covered during the discussion are both of general interest, as well as specific to the proposed research. 2- the activity carried out by the PhD candidates during their course of study and during the Master's degree thesis, their level of knowledge of the related topics and of the analytical and experimental methodologies related to the Master Thesis and to research topic of the project presented; 3- the research topic that the candidate aims at developing during the PhD.
<b>Research Themes</b>	Theme 1. "Enhancement of the supply chain of medicinal plants with a view to circular economy: from tradition to new applications" Theme 2. "Ecology and monitoring of Italian amphibians and reptiles, with particular reference to methods of assessing populations", Theme 3. "Biological activity of natural and/or synthetic compounds on cellular models of metabolic alterations". Theme 4. "Determination of beneficial effects on the physiology of the skin of substances of natural origin"
<b>Information on references</b>	Candidates must choose minimum one, up to three referents supporting their PhD application. In their application forms, the PhD candidates must indicate the name, qualification and Institution of each referent. Referents must be University professors and researchers, or well-known experts in the subject. Referents must send their letters in "pdf" format, within the

	deadline for submitting the application to Prof. Mauro Mariotti ( <a href="mailto:m.mariotti@unige.it">m.mariotti@unige.it</a> ), the responsible for the Doctorate curriculum. Reference letters that are not directly sent by referents to Prof. Mariotti will not be considered.
<b>Foreign Languages</b>	English or French or Spanish.

<b>Coordinator:</b> Scambelluri Marco	
Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita – DISTAV)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020, 9.30 am at the Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della terra, dell'ambiente e della vita – DISTAV), Room Perrier, corso Europa 26, Genova. The interviews may eventually continue on 15 July 2020. The interview can also take place on request in remote mode (SKYPE) by contacting the manager of the curriculum in advance. Prof. Marco Scambelluri Dipartimento di Scienze della Terra dell'Ambiente e della Vita (DISTAV) (+39) 0103538307 marco.scambelluri@unige.it
<b>Further information on how to present qualifications/publications</b>	Titles are all information contained in the application and in the documents attached to it. The application must include: a) the curriculum vitae et studiorum of the PhD candidate (maximum ten pages); b) a detailed research project concerning one (or more) of the Doctorate Research topics published in the official call for the XXXVI Doctorate Cycle in Science and Technology for the Earth and the Environment of the Genova University (maximum ten pages); c) a document containing the title and a brief description of the Master's thesis, together with the list of exams and their marks; d) the titles documenting the qualifications acquired by the PhD candidate during his/her career that are relevant to the research project submitted and to the Doctorate Course (maximum ten pages); e) minimum one, up to three reference letters.  PhD candidates can apply in English and Italian
<b>Exam Syllabus</b>	The interview will deal with: 1- the knowledge of PhD candidates of broad geological themes and processes, and of specific geological issues. The topics covered during the discussion are both of general interest, as well as specific to the proposed research. 2- the activity carried out by PhD candidates during their course of study and during the Master's degree thesis, their level of knowledge of the related topics and of the analytical and experimental methodologies related to the Master Thesis and to research topic of the project presented; 3- the research topic that the candidate aims at developing during the PhD.
<b>Research Themes</b>	Theme 1 - Planetary geodynamic evolution of Solar System bodies. The available remote observations reveal the complex nature of the Earth and other bodies in the Solar System. The origin and evolution of such bodies can be defined by multiscale, multidisciplinary geological and physical studies. Research goal: modelling with geological, geophysical and remote sensing methods the geodynamic evolution of Solar System bodies, also in comparison with bodies from other planetary systems.  Theme 2 - Computational mineral physics and thermodynamics of the Earth's mantle. The physical and thermodynamic properties of mantle minerals are crucial to understand the dynamics and the chemical evolution of the Earth. Research goal: improving knowledge on the stability, phase transitions, melting processes and solid-melt-fluid phase equilibria of mantle minerals in a broad range of Pressure-Temperature conditions by multi-scale computational and thermodynamic modelling. Research program supported by a the MIUR PRIN 2017 project 2017KY5ZX8.  Theme 3 - Mineralogical, textural and chemical characterization of carbonatic construction geomaterials of historical and monumental relevance. Research goals: defining innovative analytical procedure for natural stone materials; building a digital approach to studies of stone provenance, defining validity of the use of the chemical footprint in support of historical-artistic stakeholders. Program framed within the EIP NATUREUROSTONE network.

	Theme 4 - Structural analysis of Mid Ordovician intrusions and their metamorphic aureole in the Sardinian segment of the Variscan belt. Research goals: defining the major structure and the tectonic evolution during pre- Variscan and Variscan events of the mid Ordovician arc in Corsica-Sardinia and correlation with other sectors of the Variscan belt; geodynamic modelling of the Ordovician arc system in Corsica-Sardinia and its structural-tectonic inheritance in the subsequent Variscan orogenesis.
<b>Information on references</b>	Candidates must choose minimum one, up to three referents supporting their PhD application. In their application forms, the PhD candidates must indicate the name, qualification and Institution of each referent. Referents must be University professors and researchers, or well-known experts in the subject. Referents must send their letters in "pdf" format, within the deadline for submitting the application to Prof. Marco Scambelluri (marco.scambelluri@unige.it) , the responsible for the Earth Sciences Doctorate curriculum. Reference letters that are not directly sent by referents to Prof. Scambelluri will not be considered.
<b>Foreign Languages</b>	English



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

**Curriculum: ELECTRICAL ENGINEERING (CODE 8255)**

<b>Coordinator:</b> Marchesoni Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN)	
<b>Places:</b> 4 – <b>Grants:</b> 4 (*).	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant is co-financed by MIUR/DITEN funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	Applicants will have to submit: 1) a research project up to 10 pages long; 2) an updated CV; 3) a short abstract of the master's thesis, if available. Candidates who have not yet graduated must present the list and the marks of the exams passed in the master's degree program up to the moment of submission of the application.
<b>Research Themes</b>	(A) Automation: industry, process and transport. Manufacturing plants modeling. Management, monitoring and control of electrical systems. Innovative techniques and optimization for electromagnetic device design. Electric drives for robotics, manufacturing automation and processes. Advanced instrumentation and fieldbus applications. (B) Energy: Protection from electrostatic hazard. Insulation defects evaluation with partial discharge measurement. Technical-economic evaluations for the energy market. Distributed generation. Quality of service. Design of circuit breakers, electric machines and actuators and magnetic devices for energy storage. Static energy converters. (C) Electronics: Modeling of power electronic systems and components. Advanced control techniques for converters. Electrostatic discharge protection systems for electronic devices. Complex systems modeling. Analysis and synthesis of circuits and nonlinear dynamic systems. Neural networks. Electronic systems design. (D) Industrial electromagnetic compatibility: Electromagnetic compatibility among electrical, power electronic and communications systems. Modeling, simulation and measurement methods. Lightning current numerical modeling. Electromagnetic modeling with full Maxwell approach. (E) Transport: Traffic management and control systems. Modeling for RAMS predictive analysis. Electrified systems for public transport. Energy management of electric and hybrid vehicles. Electric traction motor diagnostics. Electric drives for rail traction, road and ship propulsion. (F) Environment: Numerical simulation and measurement and field reduction techniques. Optimized design of low emission devices. Low environmental impact systems.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support the application. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: mario.marchesoni@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Prof. Mario Marchesoni University of Genova DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture) Via all'Opera Pia 11a, I-16145 - Genova, Italy mario.marchesoni@unige.it tel: +39 0103532183; fax: +39 0103532700;  Laura Brunelli University of Genova DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture) Via all'Opera Pia 11a, I-16145 - Genova, Italy brunelli@dinav.unige.it tel: +39 0103532286; fax: + 39 0103532777

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

**Curriculum: COMPLEX SYSTEMS FOR MOBILITY (CODICE 8256)**

<b>Coordinator:</b> Marchesoni Mario	
Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant financed by Fincantieri SpA, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.07.2020 - at 10:00 Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via all'Opera Pia 11a, 16145 Genova. If requested by the candidate or necessary due to health situation, online interview is possible contacting Prof. Federico Silvestro <a href="mailto:federico.silvestro@unige.it">federico.silvestro@unige.it</a> at least one week before the interview.
<b>Further information on how to present qualifications/publications</b>	Applicants will have to submit: 1) a research project up to 10 pages long; 2) an updated CV; 3) a short abstract of the master's thesis, if available. Candidates who have not yet graduated must present the list and the marks of the exams passed in the master's degree program up to the moment of submission of the application.
<b>Exam Syllabus</b>	The interview aims at evaluating the candidates' competences in relation to the research themes listed and methodological abilities to face research problems. Furthermore, the interview will also deal with the thematics of the research project presented by the candidate.
<b>Research Themes</b>	(A) Complex systems in electrical and naval engineering: electrical networks, naval systems, automation systems. (B) Intelligent mobility of people and goods: planning aspects (for example relating to local public transport, city logistics, etc.), simulation, of "intelligent" transport systems (infomobility, AVM, V2V, V2I communication, etc.), evaluation of the transport external costs. (C) Maritime and marine transport systems: systems to support navigation safety and development of technologies and planning systems to support European policies of "Integrated Coastal Zone Management" and "Maritime Spatial Planning". (D) Components and technological systems for means of transport that allow to reduce the external costs of transport and to raise safety levels: electric propulsion systems for road or rail electric and hybrid vehicles, management of the energy flows of such vehicles, modeling for predictive RAMS analysis, traffic management and control systems in constrained driving systems, electronics and electric traction drives. (E) Modeling of complex systems: formulation / identification of mathematical models (starting from experimental data) and their analysis and numerical simulation. The models will mainly refer to the electrical and naval sector, but they also may concern more general problems whose solution is of application interest for these sectors (for example, electrical activity of neuron networks or circuits).
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support the application. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the contact person of the Complex Systems for Mobility Curriculum at the following address: <a href="mailto:federico.silvestro@unige.it">federico.silvestro@unige.it</a> The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	Inglese
<b>Further Information</b>	Prof. Federico Silvestro University of Genova DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture) via all'Opera Pia, 11a, I-16145 - Genova, Italy Email: <a href="mailto:federico.silvestro@unige.it">federico.silvestro@unige.it</a> Tel: +39-010-353-2723; fax: +39-010-353-2700;  Laura Brunelli University of Genova DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture) Via all'Opera Pia 11a, I-16145 - Genova, Italy <a href="mailto:brunelli@dinav.unige.it">brunelli@dinav.unige.it</a> tel: +39 0103532286; fax: + 39 0103532777  Candidates are required to sign and send to the Commission, during the interview, a specific

	non-disclosure agreement as required within the agreement between the University of Genoa and Fincantieri SpA, the scholarship funding body.
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**Course in: SCIENCE AND TECHNOLOGY FOR ELECTRONIC AND TELECOMMUNICATION ENGINEERING**  
**In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia - ITT)**

**Curriculum: INTERACTIVE COGNITIVE ENVIRONMENTS (CODE 8257)**

<b>Coordinator:</b> Marchese Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	8.7.2020 – 3.00 pm at the Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN), via Opera Pia 11A, Genova.  The interviews may also take place electronically with a Skype connection, video included to check identity, on request to the Coordinator of the Doctoral Course, Prof. Mario Marchese, by email to <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a> adding one's Skype account in the request..
<b>Further information on how to present qualifications/publications</b>	In presenting their CV, it is important for candidates to highlight the following features as they will be used as evaluative parameters: publications done (e.g. in International Journals, International Conferences, Book Chapters), the degree mark (or equivalent qualification) obtained, work experience and acquired skills. It is also important for candidates to highlight the following features when presenting their research project as they will be used as evaluative parameters: Relevance to the research themes that appear in this public exam, Originality, Execution modalities, Feasibility, Clear presentation/exposition. A possible outline for the presentation of the research project plan, which should not exceed 10 pages, is the following: <ul style="list-style-type: none"> <li>- motivations and logic foundation;</li> <li>- state of the art;</li> <li>- objectives;</li> <li>- methods employed;</li> <li>- preliminary workplan;</li> <li>- expected outcomes;</li> <li>- bibliography.</li> </ul>
<b>Exam Syllabus</b>	The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research problems. In addition, the interview will also focus on the themes of the research project, inherent to the listed research themes, presented by the candidate.
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1) Satellite Networks in the 5G Ecosystem</li> <li>2) Cybersecurity for Critical Infrastructures and Smart Cities</li> <li>3) Analytics of Traffic in the Smart City (this topic is related to the position funded by CNR/AITEK)</li> <li>4) Telemedicine and Tele-rehabilitation.</li> <li>5) Artificial Intelligence models and applications for Cyber Security and smart electronic systems</li> <li>6) Analysis and development of guidelines for integrating defense-in-depth strategies and security-by-design into production flow (this topic is related to the position funded by private company Fincantieri)</li> <li>7) Embedded Machine Learning</li> <li>8) Novel inversion techniques for electromagnetic imaging</li> <li>9) Conformal antennas: development and validation of new diagnosis techniques</li> <li>10) Emergent and incremental self awareness in multisensor physical agents</li> <li>11) Data driven Self awareness models for AI enabled wireless communications</li> <li>12) Collective self awareness in multiagent cooperative teams</li> <li>13) Electronic systems for Environmental Monitoring, both located (WSN) and mobile (drones).</li> <li>14) Advanced network and edge application control beyond the 5G.</li> <li>15) Cyber Security in a multi-domain virtualized environment</li> <li>16) Advance approaches for enhancing network and computing sustainability</li> </ol>

	<p>17) Prognostic methods for hydrogen production plants  18) Probabilistic graphical models and machine learning methods for remote sensing image analysis  19) Big data management and machine learning in videogame analytics  20) Deep learning on the edge</p> <p>More detailed information on the specific themes at: <a href="http://www.phd-stiet.diten.unige.it">http://www.phd-stiet.diten.unige.it</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. The referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following addresses: <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a>. The name, status and service place of the referees chosen by the candidates must be stated in their applications.  The candidates' aptitude for scientific research must emerge from the contents of the reference letters.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>Prof. Mario Marchese  DITEN - Università di Genova  Via Opera Pia 11A  16145, Genova, Italy  <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a></p>

**Course in: SCIENCE AND TECHNOLOGY FOR ELECTRONIC AND TELECOMMUNICATION ENGINEERING**  
**In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia - ITT)**

**Curriculum: ELECTROMAGNETISM, ELECTRONICS, TELECOMMUNICATIONS (CODE 8258)**

<b>Coordinator:</b> Marchese Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN)	
<b>Places:</b> 7 – <b>Grants:</b> 7 (*).	
(*) 5 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded by AITEK/CNR (Consiglio Nazionale delle Ricerche), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. (*) 1 grant funded by Fincantieri SpA, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	8.7.2020 – 9.00 am at the Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN), via Opera Pia 11A, Genova. The interviews may also take place electronically with a Skype connection, video included to check identity, on request to the Coordinator of the Doctoral Course, Prof. Mario Marchese, by email to <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a> adding one's Skype account in the request.
<b>Further information on how to present qualifications/publications</b>	In presenting their CV, it is important for candidates to highlight the following features as they will be used as evaluative parameters: publications done (e.g. in International Journals, International Conferences, Book Chapters), the degree mark (or equivalent qualification) obtained, work experience and acquired skills. It is also important for candidates to highlight the following features when presenting their research project as they will be used as evaluative parameters: Relevance to the research themes that appear in this public exam, Originality, Execution modalities, Feasibility, Clear presentation/exposition. A possible outline for the presentation of the research project plan, which should not exceed 10 pages, is the following: - motivations and logic foundation; - state of the art; - objectives; - methods employed; - preliminary workplan; - expected outcomes; - bibliography.
<b>Exam Syllabus</b>	The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research problems. In addition, the interview will also focus on the themes of the research project, inherent to the listed research themes, presented by the candidate.
<b>Research Themes</b>	<ol style="list-style-type: none"> <li>1) Satellite Networks in the 5G Ecosystem</li> <li>2) Cybersecurity for Critical Infrastructures and Smart Cities</li> <li>3) Analytics of Traffic in the Smart City (this topic is related to the position funded by CNR/AITEK)</li> <li>4) Telemedicine and Tele-rehabilitation.</li> <li>5) Artificial Intelligence models and applications for Cyber Security and smart electronic systems</li> <li>6) Analysis and development of guidelines for integrating defense-in-depth strategies and security-by-design into production flow (this topic is related to the position funded by private company Fincantieri)</li> <li>7) Embedded Machine Learning</li> <li>8) Novel inversion techniques for electromagnetic imaging</li> <li>9) Conformal antennas: development and validation of new diagnosis techniques</li> <li>10) Emergent and incremental self awareness in multisensor physical agents</li> <li>11) Data driven Self awareness models for AI enabled wireless communications</li> <li>12) Collective self awareness in multiagent cooperative teams</li> <li>13) Electronic systems for Environmental Monitoring, both located (WSN) and mobile (drones).</li> <li>14) Advanced network and edge application control beyond the 5G</li> </ol>

	<p>15) Cyber Security in a multi-domain virtualized environment  16) Advance approaches for enhancing network and computing sustainability  17) Prognostic methods for hydrogen production plants  18) Probabilistic graphical models and machine learning methods for remote sensing image analysis  19) Big data management and machine learning in videogame analytics  20) Deep learning on the edge</p> <p>More details on specific research themes with the indication of reference tutors at the following address: <a href="http://www.phd-stiet.diten.unige.it">http://www.phd-stiet.diten.unige.it</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. The referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following addresses: <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a>. The name, status and service place of the referees chosen by the candidates must be stated in their applications.  The candidates' aptitude for scientific research must emerge from the contents of the reference letters.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>Prof. Mario Marchese  DITEN - Università di Genova  Via Opera Pia 11A  16145, Genova, Italy  <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a></p> <p>Candidates are required to sign and send to the Commission, during the interview, a specific non-disclosure agreement as required within the agreement between the University of Genoa and Fincantieri SpA, the scholarship funding body.</p>

**Course in: SCIENCE AND TECHNOLOGY FOR ELECTRONIC AND TELECOMMUNICATION ENGINEERING**  
**In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia - IIT)**

**Curriculum: COMPUTATIONAL VISION, AUTOMATIC RECOGNITION AND LEARNING (CODE 8259)**

<b>Coordinator:</b> Marchese Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni – DITEN)	
<b>Places:</b> 6 – <b>Grants:</b> 6 (*).	
(*) 6 grants funded by the Istituto Italiano di Tecnologia - IIT (Foundation of the Italian Institute of Technology), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 – 9.00 am at the Istituto Italiano di Tecnologia (IIT), Via Enrico Melen, 83, Genova The interviews may also take place electronically with a Skype connection, video included to check identity, on request by email to the Coordinator of the Doctoral Course, Prof. Mario Marchese, <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a> , and to Dr Alessio Del Bue, <a href="mailto:alessio.delbue@iit.it">alessio.delbue@iit.it</a> , adding one's Skype account in the request.
<b>Further information on how to present qualifications/publications</b>	In presenting their CV, it is important for candidates to highlight the following features as they will be used as evaluative parameters: publications done (e.g. in International Journals, International Conferences, Book Chapters), the degree mark (or equivalent qualification) obtained, work experience and acquired skills. It is also important for candidates to highlight the following features when presenting their research project as they will be used as evaluative parameters: Relevance to the research themes that appear in this public exam, Originality, Execution modalities, Feasibility, Clear presentation/exposition. A possible outline for the presentation of the research project plan, which should not exceed 10 pages, is the following: - motivations and logic foundation; - state of the art; - objectives; - methods employed; - preliminary workplan; - expected outcomes; - bibliography.  More detail for the preparation of the research project is available at the following address: <a href="https://pavisdata.iit.it/data/phd/ResearchProjectTemplate.pdf">https://pavisdata.iit.it/data/phd/ResearchProjectTemplate.pdf</a>
<b>Exam Syllabus</b>	The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research problems. In addition, the interview will also focus on the themes of the research project, inherent to the listed research themes, presented by the candidate.
<b>Research Themes</b>	Theme A - 3D scene understanding with geometrical and deep learning reasoning (Reference Tutors: Alessio Del Bue, Yiming Wang) Theme B - Artificial Intelligence for Human Behavior Analysis (Reference Tutors: Alessio Del Bue, Cigdem Beyan) Theme C - People and Object Re-identification in the wild) Reference Tutors: Alessio Del Bue, Vittorio Murino) Theme D - Deep Learning for Multi-modal scene understanding (Reference Tutors: Alessio Del Bue, Pietro Morerio, Vittorio Murino) Theme E - Weakly-Supervised and Unsupervised Deep Learning (Reference Tutors: Alessio Del Bue, Jacopo Cavazza) Theme F - Visual Reasoning with Knowledge and Graph Neural Networks for scene understanding (Reference Tutors: Alessio Del Bue, Stuart James, Sebastiano Vascon) Theme G - Distributed AI in sensor networks and robotic platforms (Reference Tutor: Alessio Del Bue, Lorenzo Natale, Agnieszka Wykowska)  More detailed information on the specific themes at: <a href="https://pavisdata.iit.it/data/phd/ResearchTopics2021_IIT-PAVIS">https://pavisdata.iit.it/data/phd/ResearchTopics2021_IIT-PAVIS</a>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. The referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to: the Coordinator of the Doctoral Course, <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a> ; and to Dr Alessio Del Bue,



	<p>alessio.delbue@iit.it.  The name, status and service place of the referees chosen by the candidates must be stated in their applications.  The candidates' aptitude for scientific research must emerge from the contents of the reference letters.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>Prof. Mario Marchese  DITEN - Università di Genova  Via Opera Pia 13 16145, Genova, Italy  <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a></p> <p>and  Dr Alessio Del Bue, Ph.D.  Director, PAVIS - Pattern Analysis &amp; Computer Vision  IIT Istituto Italiano di Tecnologia Via Enrico Melen, 83, 16152, Genova, GE  alessio.delbue@iit.it</p>

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

**Curriculum: ENDOCRINOLOGY AND DIABETOLOGY (CODE 8260)**

<b>Coordinator:</b> Minetti Carlo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI), Museum Room (Sala Museo), Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti ( <a href="mailto:minettic@unige.it">minettic@unige.it</a> ) and Rosanna Rizzo ( <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Exam Syllabus</b>	Interview contents: - previous research work experience, including the one concerning the degree thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of the English language.
<b>Research Themes</b>	Deepening of new methodologies for the diagnosis and treatment of endocrinometabolic pathologies of the developmental age, with particular regard to hypothalamic-pituitary diseases affecting the "Network" of the complex metabolic endocrine system, to midline pathologies associated with endocrinopathies and various organ diseases including diabetes mellitus.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Carlo Minetti <a href="mailto:minettic@unige.it">minettic@unige.it</a> and copy to: <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English

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

**Curriculum: GENETICS (CODE 8261)**

<b>Coordinator:</b> Minetti Carlo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*)1 grant co-financed by MIUR/DINOEMI funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI), Museum Room (Sala Museo), Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti ( <a href="mailto:minettic@unige.it">minettic@unige.it</a> ) and Rosanna Rizzo ( <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Exam Syllabus</b>	Interview contents: - previous research work experience, including the one concerning the degree thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English language
<b>Research Themes</b>	- New knowledge on the human genome including investigations with new technologies; - identification of disease genes, their mutations, their consequences in the mechanism of molecular and cellular disease and correlations with the clinical phenotype; - identification of specific aspects of the pathogenetic mechanisms that can represent targets of therapeutic approaches; - gene structure and control of gene expression.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Carlo Minetti <a href="mailto:minettic@unige.it">minettic@unige.it</a> and copy to: <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English

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

**Curriculum: MUSCULAR, NEURODEGENERATIVE AND METABOLIC DISEASES IN CHILDREN AND ADOLESCENTS (CODE 8262)**

<b>Coordinator:</b> Minetti Carlo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant financed from DINOEMI, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI), Museum Room (Sala Museo), Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti ( <a href="mailto:minettic@unige.it">minettic@unige.it</a> ) and Rosanna Rizzo ( <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Exam Syllabus</b>	Interview contents: - previous research work experience, including the one concerning the degree thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of the English language.
<b>Research Themes</b>	Deepening of new methodologies for the prevention, diagnosis and treatment of neuropediatric pathologies of the developmental age, with particular regard to neuromuscular diseases and neurodegenerative, neuro-metabolic and in general genetic-metabolic pathologies, to the epilepsies of the pediatric age of genetic origin and / or of possible neurosurgical interest, to neural tube defects and cortical migration and neurofibromatosis. The molecular and environmental factors of the development of the nervous system and the etiological aspects and pathogenetics of congenital hypotonias, primary myopathies, spinal muscular atrophies, mitochondrial encephalopathies, leukoencephalopathies, epileptic encephalopathies and metabolic encephalopathies will be studied.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Carlo Minetti <a href="mailto:minettic@unige.it">minettic@unige.it</a> and copy to: <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English

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

**Curriculum: FOETAL-PERINATAL AND PAEDIATRIC PATHOLOGY (CODE 8263)**

<b>Coordinator:</b> Minetti Carlo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1	
(*) 1 grant funded by Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI), Museum Room (Sala Museo), Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti ( <a href="mailto:minettic@unige.it">minettic@unige.it</a> ) and Rosanna Rizzo ( <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Exam Syllabus</b>	Interview contents: <ul style="list-style-type: none"> <li>- previous research work experience, including the one concerning the degree thesis;</li> <li>- project ideas;</li> <li>- knowledge of basic methodologies for clinical and laboratory research;</li> <li>- knowledge of the English language.</li> </ul>
<b>Research Themes</b>	<ul style="list-style-type: none"> <li>- Malformative pathology isolated or inserted in syndromic pictures;</li> <li>- pathology of the development and maturation of the fetus and consequent adaptive capacities at the moment of birth;</li> <li>- placental pathology linked to preterm parts and severe prematurity;</li> <li>- fetal, neonatal and pediatric cardio-vascular pathology;</li> <li>- neonatal neurological damage;</li> <li>- dysplastic and teratomatous pathology;</li> <li>- neoplastic pathology.</li> </ul>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Carlo Minetti <a href="mailto:minettic@unige.it">minettic@unige.it</a> and copy to: <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English

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

**Curriculum: PAEDIATRIC RHEUMATOLOGY (CODE 8265)**

<b>Coordinator:</b> Minetti Carlo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI), Museum Room (Sala Museo), Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti ( <a href="mailto:minettic@unige.it">minettic@unige.it</a> ) and Rosanna Rizzo ( <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Exam Syllabus</b>	Interview contents: <ul style="list-style-type: none"> <li>- previous research work experience, including the one concerning the degree thesis;</li> <li>- project ideas;</li> <li>- knowledge of basic methodologies for clinical and laboratory research;</li> <li>- knowledge of the English language.</li> </ul>
<b>Research Themes</b>	Deepening of new methodologies for the diagnosis and treatment of rheumatological pathologies in pediatric field, with particular regard to Juvenile Idiopathic Arthritis and other autoimmune diseases and autoinflammatory syndromes.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Carlo Minetti <a href="mailto:minettic@unige.it">minettic@unige.it</a> and copy to: <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English

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

**Curriculum: PAEDIATRIC SPECIALTIES (CODE 8264)**

<b>Coordinator:</b> Minetti Carlo	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 3 Grants funded by IRCCS Istituto G. Gaslini, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 – 2.00 pm, at the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili – DINOEMI), Museum Room (Sala Museo), Istituto G. Gaslini, Wing 16 (Padiglione 16), first floor, via G. Gaslini 5, Genova. The interview may also take place electronically, on candidates' request, by contacting Prof. Carlo Minetti ( <a href="mailto:minettic@unige.it">minettic@unige.it</a> ) and Rosanna Rizzo ( <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> ) at least 15 days before the evaluation. Candidates must have a reliable Internet connection to allow for the test to be carried out.
<b>Exam Syllabus</b>	Interview contents: - previous research work experience, including the one concerning the degree thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of the English language.
<b>Research Themes</b>	Deepening of new methodologies for the diagnosis and treatment of pertinent pediatric medical or surgical pathologies, with particular regard to the specialties at the G. Gaslini Institute.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Carlo Minetti <a href="mailto:minettic@unige.it">minettic@unige.it</a> and copy to: <a href="mailto:rosanna.rizzo@unige.it">rosanna.rizzo@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign Languages</b>	English

Course in: SOCIAL SCIENCES

Curriculum: MIGRATIONS AND INTERCULTURAL PROCESSES (CODE 8266)

<b>Coordinator:</b> Andrighetto Luca	
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	2.7.2020 – 9.00 am at the Department of Education Sciences (Dipartimento di Scienze della Formazione – DISFOR), corso A. Podestà 2, Genova. The option of a video (to verify the candidate's ID) conferencing interview via Skype is available. The motivated request for video-conference modality must be sent within and not beyond 29.6.2020 – 12-00 noon, by email to the following addresses: prof. Nadia Rania (nadia.rania@unige.it) and prof. Luca Andrighetto (the Doctorate coordinator, luca.andrighetto@unige.it). In the email, the candidate's name, surname and Skype address must be specified.
<b>Further information on how to present qualifications/publications</b>	For the admission to the interview, a minimum score, decided by the Commission, and resulting from the qualifications and the project evaluation, is required.  The following will be assessed: 1. The quality of the research project presented. 2. Research experience and scientific publications. 3. Thesis of the 5 or 4-year degree course, which has to be attached in PDF format. 4. Academic curriculum and degree mark. 5. Specific experiences relevant to the Doctorate themes
<b>Exam Syllabus</b>	The interview will focus on the discussion of the research project and of the qualifications presented, with special reference to some aspects of research methodologies and data analysis techniques within the specific subject areas.  During the interview, the candidate's real motivation, together with his/her knowledge of two European languages (Italian, English, French and Spanish) will be assessed.
<b>Research Themes</b>	- Integration, acculturation and identity construction processes through different levels of analysis (individual, family, group), - Ingroup-outgroup relationships in various contexts (educational, formative and work-related). - Intercultural processes in the wake of migration movements both for the countries of origin and in those of arrival. - Reception systems; forced migrations, environmental migrations and transformations following migrations in urban and rural contexts from local to global. These research themes can be analyzed using models and methods of various disciplines in the field of social sciences (anthropology, geography, pedagogy, psychology, sociology, history).
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign Languages</b>	English or French or Spanish
<b>Further Information</b>	Website: <a href="https://scienze-sociali.dottorato.unige.it/">https://scienze-sociali.dottorato.unige.it/</a>  Curriculum Coordinator: Prof.ssa Nadia Rania, Dipartimento di Scienze della Formazione (DISFOR), C.so Podestà, 2, Genova; (+39) 01020953747; nadia.rania@unige.it  Administrative manager: Dott.ssa Francesca Figus, DISFOR, C.so Podestà, 2; francesca.figus@unige.it



<b>Coordinator:</b> Andrighetto Luca	
Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	<p>9.7.2020 – 10.00 am at the Department of Education Sciences (Dipartimento di Scienze della Formazione – DISFOR), corso A. Podestà 2, Genova.</p> <p>The option of a video (to verify the candidate's ID) conferencing interview via Skype is available. The motivated request for video-conference modality must be sent within and not beyond 7.7.2020 – 12-00 noon, by email to the following addresses: Prof.ssa Cecilia Pace (cecilia.pace@unige.it) and Prof. Luca Andrighetto (the Doctorate coordinator) luca.andrighetto@unige.it.</p> <p>In the email, the candidate's name, surname and Skype address must be specified.</p>
<b>Further information on how to present qualifications/publications</b>	<p>The research project presented must be inherent to the research topics of the Psychology and Cognitive Sciences Curriculum listed below.</p> <p>The Commission will reserve the possibility of setting a minimum score threshold obtained by the candidate in the titles' evaluation in order to access the interview.</p> <p>The following titles will be evaluated:</p> <ol style="list-style-type: none"> <li>1. Quality of the research project which will be presented by candidate</li> <li>2. Research experiences and scientific publications</li> <li>3. Master's or four-year degree thesis, which can be attached in PDF format</li> <li>4. Academic curriculum and degree mark</li> </ol>
<b>Exam Syllabus</b>	<p>The interview will focus on the discussion of the research project and the titles presented, also with attention to general aspects of research methodology in psychology and data analysis techniques in the specific disciplinary areas.</p> <p>The interview can be held in Italian or English, chosen by the candidate. If the interview will take place in Italian, knowledge of the English language will be assessed during the interview.</p>
<b>Research Themes</b>	<ul style="list-style-type: none"> <li>- Working memory. Skills of critical thinking. Body expressions, gestures and language. Implicit aspects in the expression of attitudes and in clinical manifestations. Perceptive and attentive foundations of abstract symbols and concepts. Cognitive ergonomics. Non-technical skills and high-fidelity simulation. Human-machine interaction and interaction design. Experimental pragmatic. Neuropsychology of language. Aging. Psychology of tourism.</li> <li>- Language and executive functions in typical and atypical development. School inclusion of pupils with developmental disorders. Neo-Piagetian models of cognitive development. Understanding and learning of mathematics. Cognitive processes in child drawing.</li> <li>- Dehumanization and objectification in interpersonal and intergroup relationships. Prejudice, its different forms and reduction strategies. Quality of working life and psychosocial risks. Leadership. Professional development and training.</li> <li>- Psychopathological disorders and emotional regulation in middle childhood, adolescents and adults. Attachment theory: research, clinical applications and assessment methods. Adoption. High risk adolescents. Mentalization in clinical and non-clinical groups. Risk factors and protection in couples and families. Skills of critical thinking. Body expressions, gestures and language. Implicit aspects in the expression of attitudes and in clinical manifestations. Perceptive and attentive foundations of abstract symbols and concepts. Cognitive ergonomics. Non-technical skills and high-fidelity simulation. Human-machine interaction and interaction design. Experimental pragmatic. Neuropsychology of language. Aging. Psychology of tourism.</li> <li>- Language and executive functions in typical and atypical development. School inclusion of pupils with developmental disorders. Neo-Piagetian models of cognitive development. Understanding and learning of mathematics. Cognitive processes in child drawing.</li> </ul>

	<p>- Dehumanization and objectification in interpersonal and intergroup relationships. Prejudice, its different forms and reduction strategies. Quality of working life and psychosocial risks. Leadership. Professional development and training.</p> <p>- Psychopathological disorders and emotional regulation in middle childhood, adolescents and adults. Attachment theory: research, clinical applications and assessment methods. Adoption. High risk adolescents. Mentalization in clinical and non-clinical groups. Risk factors and protection in couples and families.</p>
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>Website: <a href="https://scienze-sociali.dottorato.unige.it/">https://scienze-sociali.dottorato.unige.it/</a></p> <p>Curriculum Coordinator: Prof.ssa Cecilia Serena Pace, Dipartimento di Scienze della Formazione (DISFOR), C.so Podestà, 2, Genova; (+39) 010 209-53731; cecilia.pace@unige.it</p> <p>Administrative manager: Dott.ssa Francesca Figus, DISFOR, C.so Podestà, 2; francesca.figus@unige.it</p>

**Course in: SOCIAL SCIENCES****Curriculum: POLITICAL SCIENCES (CODE 8268)**

<b>Coordinator:</b> Andrighetto Luca	
Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant funded by Fondazione CIMA, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	7.7.2020 – 11.00 am at the Department of Political Sciences (Dipartimento di Scienze Politiche –DISPO), Albergo dei Poveri, piazzale E. Brignole 2A (gate), Genova.  The option of a video (to verify the candidate's ID) conferencing interview via Teams is available. The motivated request for video-conference modality must be sent within and not beyond 03.7.2020 – 11:00 am (local time), by email to the following addresses: Prof. Paolo Parra Saiani (mail: paolo.parra.saiani@unige.it; the person in charge of the curriculum) and Prof. Luca Andrighetto (mail: luca.andrighetto@unige.it; the Doctorate coordinator).
<b>Further information on how to present qualifications/publications</b>	The examining commission reserves the right to fix a minimum score threshold to be obtained by candidates in the evaluation of their qualifications/publications in order to be admitted to the written test.  The following will be evaluated: 1. The quality of the research project presented by the candidate 2. The final graduation thesis which has to be attached in PDF format 3. Academic curriculum and graduation mark.
<b>Exam Syllabus</b>	The interview will focus on the discussion of the research project and the qualifications presented, with special reference to some aspects of research methodologies within the specific subject areas.  During the interview, the candidate's knowledge of two European languages (Italian, English, French and Spanish) will be assessed.
<b>Research Themes</b>	- Political ideas, ideologies and political phenomena in a historical-critical perspective - Human Rights promotion and protection in a local, national and international dimension- Social and political changes in democratic contexts: the transformation dynamics of the political and cultural relations linked to the changes - Methodology of social research - Regulation of scientific activity: between law, market and politics and its influence on research practices. - Global changes, territorial dynamics, conflicts, security and migrations - Dynamics of international migrations and territorial political perspectives of religious phenomena
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign Languages</b>	English or French or Spanish
<b>Further Information</b>	Website: <a href="https://scienze-sociali.dottorato.unige.it/">https://scienze-sociali.dottorato.unige.it/</a>  Curriculum coordinator: Prof. Paolo Parra Saiani, Dipartimento di Scienze Politiche (DISPO), piazzale Emanuele Brignole 3a, Genova; (+39) 01020951171, paolo.parra.saiani@unige.it  Administrative manager: Dott.ssa Francesca Figus, DISFOR, C.so Podestà, 2; francesca.figus@unige.it

**Course in: SOCIAL SCIENCES**

**Curriculum: SOCIOLOGY (CODE 8269)**

<b>Coordinator:</b> Andrighetto Luca	
Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 2 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 grant financed by DISFOR funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	<p>9.7.2020 – 11.00 am at the Department of Education Sciences (Dipartimento di Scienze della Formazione – DISFOR), corso A. Podestà 2, Genova.</p> <p>The option of a video (to verify the candidate’s ID) conferencing interview via Skype is available. The motivated request for video-conference modality must be sent within and not beyond 7.7.2020 – 12-00 noon, by email to the following addresses: Prof. Luca Guzzetti (luca.guzzetti@unige.it) and Prof. Luca Andrighetto (the Doctorate coordinator) luca.andrighetto@unige.it.</p> <p>In the email, the candidate’s name, surname and Skype address must be specified.</p>
<b>Further information on how to present qualifications/publications</b>	<p>A minimum score, decided by the Commission, resulting from the qualifications and the project evaluation, is required for the admission to the interview.</p> <p>The following will be assessed:</p> <ol style="list-style-type: none"> <li>1. The quality of the research project presented</li> <li>2. Research experience and scientific publications</li> <li>3. Thesis of the 5 or 4-year degree course, which has to be attached in PDF format</li> <li>4. Academic curriculum and degree mark.</li> </ol> <p>The results of the qualifications evaluation will be available at least two days before the discussion.</p>
<b>Exam Syllabus</b>	<p>The interview will focus on the discussion of the research project and of the qualifications presented by the candidate with special reference to aspects of general research methodology, and data analysis techniques referred to the specific disciplinary contexts.</p> <p>During the interview the knowledge of a foreign language will be tested.</p>
<b>Research Themes</b>	<ul style="list-style-type: none"> <li>- Methodology of social research.</li> <li>- Evaluation of educational and social policies.</li> <li>- Visual Sociology.</li> <li>- Social disparities.</li> <li>- Social policies.</li> <li>- The youth situation.</li> <li>- Dynamics of the labour market.</li> <li>- Sociology of organizations and work.</li> <li>- Sociology of science and technology.</li> <li>- Sociology of cultural processes and communication.</li> <li>- Sociology of deviance.</li> <li>- Sociology of education.</li> <li>- Sociology of the family.</li> <li>- Urban sociology.</li> <li>- Gender studies.</li> </ul>
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign Languages</b>	English or French or Spanish
<b>Further Information</b>	<p>Website: <a href="https://scienze-sociali.dottorato.unige.it/">https://scienze-sociali.dottorato.unige.it/</a></p> <p>Curriculum Coordinator: Prof. Luca Guzzetti, Dipartimento di Scienze della Formazione (DISFOR), C.so Podestà, 2, Genova; (+39) 010 209-53731; luca.guzzetti@unige.it</p> <p>Administrative manager: Dott.ssa Francesca Figus, DISFOR, C.so Podestà, 2;</p>

francesca.figus@unige.it C.so Podestà 2 +39 010 20953742 <a href="mailto:francesca.figus@unige.it">francesca.figus@unige.it</a>
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**Course in: SECURITY, RISK AND VULNERABILITY****Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK)****Curriculum: CYBERSECURITY AND RELIABLE ARTIFICIAL INTELLIGENCE (CODICE 8270)**

<b>Coordinator:</b> Alessandro Armando	
CENTRO STRATEGICO INTERDIPARTIMENTALE SU SICUREZZA, RISCHIO E VULNERABILITÀ	
<b>Places:</b> 7 – <b>Grants:</b> 7 (*)	
(*) 2 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
(*) 1 borsa funded by Fincantieri SpA, , the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500.	
(*) 4 grants funded by Fondazione FBK, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	<b>QUALIFICATIONS/PUBLICATIONS AND INTERVIEW</b>
<b>Interview</b>	8.07.2020 - 9:00 am Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS), Sede di Valletta Puggia, Via Dodecaneso 35, Genova.  The interviews may continue on the following days. Candidates who are interested or if necessary due to the health situation, may request the interview to be held electronically (via Skype) by contacting the coordinator Prof. Alessandro Armando (alessandro.armando@unige.it) at least 7 days before the assessment. The candidate must have a reliable internet connection, in order to allow the test to take place.
<b>Further information on how to present qualifications/publications</b>	The research project (10 pages max) must include the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the aims of the research activity.  The application (curriculum) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees). Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career.
<b>Exam Syllabus</b>	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
<b>Research Themes</b>	Research lines: - Cybersecurity of distributed systems (e.g., Mobile, Cloud, Web, IoT) - Data Protection and Privacy - Reliability of Artificial Intelligence  FBK research lines are: - Access Control for the Efficient, - Secure, and Privacy-Preserving Management of Cloud-Edge Solutions - Integrating Security by Design and Automated Security Analysis for Digital Identity Management - Formal design and safety assessment for complex systems and software  Fincantieri research line: - Adaptive Risk-based Cybersecurity Assessment of the Ship Ecosystem  Further information and guidelines for the writing the research projects are available at <a href="http://sicurezza.unige.it/dottorato">http://sicurezza.unige.it/dottorato</a>
<b>Information on references</b>	Candidates must choose at least one and no more than three referees to support their candidature. The referees must be university professors or experts in the subject. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications.  One of the referees must be the member of the curriculum committee ( <a href="http://dottorato.dicca.unige.it/eng/rrenib/">http://dottorato.dicca.unige.it/eng/rrenib/</a> ) with whom the research project has been agreed.  The reference letter must be send by the referees ,within the deadline of the public notice, to the Coordinator of the PhD program (alessandro.armando@unige.it) and to the responsible of the curriculum (serena.cattari@unige.it).

	<p>The name, status and current position of the referees chosen by the candidate must be stated in the application.</p> <p>Reference letters that are not presented as requested will not be taken into consideration.</p>
<b>Foreign Languages</b>	English
<b>Further Information</b>	<p>Coordinatore of the PhD Program: Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova (+39) 3281003201 – alessandro.armando@unige.it</p> <p>Candidates are required to sign and send to the Commission, during the interview, a specific non-disclosure agreement as required within the agreement between the University of Genoa and Fincantieri SpA, the scholarship funding body.</p>

**Course in: SECURITY, RISK AND VULNERABILITY**

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

**Curriculum: SECURITY AND LAW (CODICE 8271)**

<b>Coordinator:</b> Alessandro Armando	
CENTRO STRATEGICO INTERDIPARTIMENTALE SU SICUREZZA, RISCHIO E VULNERABILITÀ	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	13.07.2020 - 9:00 am - Law Department, meeting room of the former Constitutional Law Section, 3rd floor, (7B), via Balbi 22, Genova.  Interview by Skype is possible as well. The interview can be scheduled on the days after, in case of high number of applications.
<b>Further information on how to present qualifications/publications</b>	For “Qualifications” it is meant the information contained in the application and in the curriculum vitae et studiorum, the research project, and further qualifications. The application form and its attachment can be written in Italian or English or French or Spanish.
<b>Exam Syllabus</b>	The comparative evaluation consists of evaluating the qualifications of the candidate and of an interview aimed at assessing skills and knowledges needed to enrol in a PhD programme in security risk and vulnerability. The candidate will be also asked to discuss his/her research project in “Security and Law” and “Personal Data Protection”. More specifically:  - the RESEARCH PROJECT, which must be coherent with the research themes of the PhD programme, must identify: the scientific grounds on which it is built; an essential bibliography; topics that will be analyzed and expected results;  - the INTERVIEW will be aimed at discussing the research project presented by the candidate and will be focused on some research topics of the PhD Programme: -- Personal data protection -- Privacy and big data -- Artificial intelligence and Law -- Digital Identity -- Data retention and search engines -- Philosophy of privacy and New Surveillance Society -- Human Rights in the Digital Age -- Health Security -- e-Democracy, e-Government and Rule of law -- Internet governance -- Cybersecurity and Law -- Cybersecurity and cybercrime -- Machine learning and law -- Smart contracts -- New technology and labor relations
<b>Research Themes</b>	Lines of research are focused on the following macro-areas: - Security and Law - Personal Data Protection
<b>Information on references</b>	
<b>Foreign Languages</b>	English
<b>Further Information</b>	- Coordinator of the PhD Programme Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova (+39) 3281003201 – alessandro.armando@unige.it  - Coordinator of the curriculum Prof. Lara Trucco DIGI, Via Balbi 22, Genova (+39) 3285368225 – lara.trucco@unige.it  - Administrative contact of the curriculum Dott.ssa M. Stefania Lavezzo





**Course in: SECURITY, RISK AND VULNERABILITY**

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

**Curriculum: SECURITY AND STRATEGIC STUDIES (CODICE 8272)**

<b>Coordinator:</b> Alessandro Armando	
CENTRO STRATEGICO INTERDIPARTIMENTALE SU SICUREZZA, RISCHIO E VULNERABILITÀ	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 3 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	9.07.2020 - 9:00 DISPO, Albergo dei Poveri, Piazzale E. Brignole 2, Genova. The interview can be scheduled on the days after, in case of high number of applications. Candidates who are interested or if necessary due to the health situation, may request the interview to be held electronically (via Skype) by contacting the curriculum referee Prof. Giampiero Cama (giampiero.cama@unige.it.) at least 7 days before the assessment. The candidate must have a reliable internet connection, in order to allow the test to take place.
<b>Further information on how to present qualifications/publications</b>	The Commission will assess: 1. Quality of the research project 2. Research experiences and scientific publications 3. Master thesis abstract 4. Academic curriculum and final degree mark  The Commission will set a minimum threshold obtained by the candidate in the evaluation of cv and research project in order to access the interview
<b>Exam Syllabus</b>	Candidates who obtain the minimum score established by the Commission on research projects and the cv will be admitted to the interview.  The interview will focus on the discussion of the research project and the titles presented, with a specific attention devoted to research methodology.  During the interview, the motivational aspects will be assessed and the knowledge of English will be ascertained.
<b>Research Themes</b>	Within International Relations, Security Studies, Foreign Policy Analysis a specific attention will be devoted to: - Causes and features of civil wars; - Institutional, political and technological solutions to civil wars; - Evolution of Peacekeeping; - Tools and approaches in foreign and defense policy.
<b>Information on references</b>	Candidates must choose at least one and no more than three referees to support their candidature. The referees must be university professors or experts in the subject. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications.  One of the referees must be the member of the curriculum committee ( <a href="http://sicurezza.unige.it/dottorato">http://sicurezza.unige.it/dottorato</a> ) with whom the research project has been agreed.  The reference letter must be send by the referees, within the deadline of the public notice, to the Coordinator of the curriculum to the following email address: giampiero.cama@unige.it.  The name, status and current position of the referees chosen by the candidate must be stated in the application.  Reference letters that are not presented as requested will not be taken into consideration.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator of the PhD Programme Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova (+39) 3281003201 alessandro.armando@unige.it  Coordinator of the curriculum Prof. Giampiero Cama DISPO, Albergo dei Poveri, Piazzale E. Brignole 2, Genova giampiero.cama@unige.it

**Course in: SECURITY, RISK AND VULNERABILITY****Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK)****Curriculum: MANAGEMENT AND SECURITY (CODICE 8273)**

<b>Coordinator:</b> Alessandro Armando	
CENTRO STRATEGICO INTERDIPARTIMENTALE SU SICUREZZA, RISCHIO E VULNERABILITÀ	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	10.07.2020 – 10.00 am - via Skype Candidates will be notified about it and in the case of large numbers of candidates, a calendar of appointments can be defined.
<b>Further information on how to present qualifications/publications</b>	“Qualifications” are the information contained in the application and in the Curriculum Vitae et Studiorum, the research project, as well as further qualifications. The application form and its attachment can be written in Italian or English.  Any document has to be send in electronic form.
<b>Exam Syllabus</b>	The interview will be a discussion on the Curriculum Vitae et Studiorum and qualifications/publications and an in depth presentation of the candidate’s research project,.The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
<b>Research Themes</b>	Lines of research characterizing the curriculum are focused on the following macro-areas: a. industry analysis and case studies, in relationship to security b. security as shared topic among organizations (for example, business ethics, sustainability and environmental management, Technology, innovation and knowledge management. Organizational issues, Performance and crisis management, Alternative Finance, Risk management and performance, turnaround: retrenchment and recovery, compliance, financial reporting transparency, accounting scandals and crisis communication
<b>Information on references</b>	Candidates must choose at least one and no more than three referees to support their candidature. The referees must be university professors or experts in the subject. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications. The reference letter must be send by the referees, within the deadline of the public notice, to the coordinator of the curriculum (Teresina.torre@economia.unige.it), object: reference letter – Name –phd. The name, status and current position of the referees chosen by the candidate must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
<b>Foreign Languages</b>	English
<b>Further Information</b>	Coordinator of the PhD Course Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova (+39) 3281003201 – alessandro.armando@unige.it  Responsible of the Curriculum Prof.ssa Teresina Torre DIEC, Via Vivaldi 5. Genova (+39) teresina.torre@economia.unige.it

**Course in: SECURITY, RISK AND VULNERABILITY****Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK)****Curriculum: RISK AND RESILIENCE ENGINEERING FOR THE NATURAL, BUILT AND INDUSTRIAL ENVIRONMENTS (CODICE 8274)**

<b>Coordinator:</b> Alessandro Armando	
CENTRO STRATEGICO INTERDIPARTIMENTALE SU SICUREZZA, RISCHIO E VULNERABILITÀ	
<b>Posti:</b> 2 – <b>Borse:</b> 2 (*)	
(*) 2 grants from Università di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	<p>8.07.2020 - 9:00 am presso la Biblioteca Baldacci del Dipartimento di Ingegneria Civile, Chimica e Ambientale (DICCA), Via Montallegro 1 16145 Genova.</p> <p>The interview can be scheduled on the following days, in case of high number of applications.</p> <p>Candidates who are interested or if necessary due to the health situation, may request the interview to be held electronically (via Skype) by contacting the curriculum referee Prof. Serena Cattari (serena.cattari@unige.it.) at least 15 days before the assessment. The candidate must have a reliable internet connection, in order to allow the test to take place.</p>
<b>Further information on how to present qualifications/publications</b>	<p>The research project (10 pages max) must include the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the aims of the research activity.</p> <p>The application (curriculum) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. degrees). Undergraduate candidates at the deadline of the public notice may submit further documentation, which they deem appropriate, in order to document their university career.</p>
<b>Exam Syllabus</b>	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
<b>Research Themes</b>	<p>Risk analyses and resilience studies addressed to assess and tackle risks arising from natural hazards and anthropic activities and their impact on society, in terms of direct and indirect losses and their economic, social and environmental consequences. Studies involve:</p> <ul style="list-style-type: none"> <li>- the natural environment such as atmosphere, soil and subsoil, fluvial and coastal environment.</li> <li>- industrial and civil buildings (including the monumental ones)</li> <li>- the infrastructure and equipment related to transportation of people, goods and energy.</li> </ul> <p>Among others, tools and objectives of researches are the monitoring and the planning of mitigation strategies based on a multi-disciplinary and systemic approach.</p> <p>Additional information on the research themes of the curriculum in "Risk and Resilience Engineering for the Natural, Industrialized and Built environments" are described in details on the course web page: <a href="http://sicurezza.unige.it/dottorato">http://sicurezza.unige.it/dottorato</a></p>
<b>Information on references</b>	<p>Candidates must choose at least one and no more than three referees to support their candidature. The referees must be university professors or experts in the subject. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications.</p> <p>One of the referees must be the member of the curriculum committee (<a href="http://sicurezza.unige.it/dottorato">http://sicurezza.unige.it/dottorato</a>) with whom the research project has been agreed.</p> <p>The reference letter must be send by the referees ,within the deadline of the public notice, to the Coordinator of the PhD program (alessandro.armando@unige.it) and to the responsible of the curriculum (serena.cattari@unige.it, dottorato.dicca@unige.it).</p> <p>The name, status and current position of the referees chosen by the candidate must be stated in the application.</p> <p>Reference letters that are not presented as requested will not be taken into consideration.</p>

<b>Foreign Languages</b>	English International languages certifications (TOEFL, CPE, CAE, FCE, ...) attached to the curriculum is preferential.
<b>Further Information</b>	<p>Coordinator of the PhD Course Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova (+39) 3281003201 – alessandro.armando@unige.it</p> <p>Coordinator of the Curriculum Prof. Serena Cattari DICCA – Via Montallegro 1 1614 Genova serena.cattari@unige.it</p>

**Course in: THE STUDY AND ENHANCEMENT OF THE HISTORICAL, ARTISTIC-ARCHITECTURAL AND ENVIRONMENTAL HERITAGE**

**Curriculum: HISTORY (CODE 8275)**

<b>Coordinator:</b> Cassata Francesco	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)	
<b>Places:</b> 9 – <b>Grants:</b> 9 (*).	
<p>(*) 6 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.          The number of grants (6) refers to the doctoral research course in its entirety and not to the single curriculum.          The examining commission will be the same for all the curricula and will draw up a single merit list.          (*) 3 grants funded by the program ERC 2019 ANTIGONE - Starting Grant Archaeology of Sharing practices. The material evidence of mountain marginalisation in Europe (G.A. n. 853539). These research grants stand on History curriculum. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.</p>	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 – 9.30 am Video conference (Teams)
<b>Further information on how to present qualifications/publications</b>	<p>Besides the qualifications/publications requested in the public notice exam, candidates are requested to submit by means of the online procedure together with their applications:</p> <p>a) the four year degree thesis, or specialist, or II level degree thesis (in pdf format) which will be evaluated;</p> <p>b) any publications (in pdf format), which will be evaluated;</p> <p>c) a brief description of the research project proposed by the candidate (maximum 30,000 strokes plus an annotated bibliography), which will be evaluated.</p> <p>The project must be organized according to the following points: 1) Objectives; 2) Sources and state of the art; 3) Importance for the advancement of knowledge; 4) Proposed methodology; 5) A developmental work plan.</p> <p>CVs, titles, theses, publications and research projects must be presented in pdf format, attached to the application.</p> <p>Only the titles and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the degree diploma, which will be assessed even if previous) will be assessed and deemed congruent with the research topics of the PhD course and include:</p> <p>1) Master's degree or four-year degree (old system) or qualification deemed equivalent; the thesis will be evaluated;</p> <p>2) Scientific publications, consistent with the themes of the doctorate:</p> <ul style="list-style-type: none"> <li>- monografie;</li> <li>- essays in scientific journals (band A or B in the ANVUR classification);</li> <li>- essays in collective volumes</li> <li>- short essays, historical-critical factsheets.</li> </ul> <p>3) Others:</p> <ul style="list-style-type: none"> <li>- Degrees obtained following the completion of specialization and / or specialization and / or advanced training courses, Masters in subjects related to the research courses of the PhD course;</li> <li>- PhD Diploma;</li> <li>- Second degree in subjects related to the research courses of the PhD course;</li> <li>- Scholarships, Awards, Fellowships;</li> <li>- Research activity carried out at scientific institutions;</li> <li>- Didactic activity carried out at university institutions;</li> <li>- Curricular study experiences abroad;</li> <li>- Internships, traineeships and professional experiences related to the research courses of the PhD course;</li> <li>- Expert of the subject or member of exam commissions in the university environment.</li> </ul>
<b>Exam Syllabus</b>	<p>The interview will concern the presentation and discussion of the research project by the candidate and is aimed at verifying its aptitude for scientific research</p> <p>The evaluation will be based on the following criteria:</p>

	<p>- argumentative skills in the presentation of the research project, knowledge of the state of the art and general preparation on themes and topics related to the project;</p> <p>- foreign language knowledge</p>
<b>Research Themes</b>	<p>The research topics are indicated on the PhD presentation page: <a href="http://www.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-architettonico-e-ambientale/">http://www.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-architettonico-e-ambientale/</a></p> <p>The 3 ERC grants will focus on the study of the process of marginalisation of European rural societies between the 18th and 21st centuries, based on different practices connected to the management of shared environmental resources (sharing practices), through a multidisciplinary approach involving archaeology, environmental archaeology, archival research and oral history. Previous experience in archaeological research (preferably in surveys) is required for the PhD candidates. The students will also have the opportunity to practice archival research (in particular about conflicts on environmental resources) and oral history methods, in a multidisciplinary research group.</p> <p>Further details about the project are available on the PhD course website (<a href="http://www.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-architettonico-e-ambientale/">http://www.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-architettonico-e-ambientale/</a>) and can be asked to Anna M. Stagno (<a href="mailto:anna.stagno@unige.it">anna.stagno@unige.it</a>).</p>
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign Languages</b>	English or French or Spanish.
<b>Further Information</b>	<p>Prof. Francesco Cassata  (+39) 0102095741  <a href="mailto:francesco.cassata@unige.it">francesco.cassata@unige.it</a></p> <p>For ERC 2019 – Antigone  Dott.ssa Anna Maria Stagno <a href="mailto:anna.stagno@unige.it">anna.stagno@unige.it</a></p>

**Course in: THE STUDY AND ENHANCEMENT OF THE HISTORICAL, ARTISTIC-ARCHITECTURAL AND ENVIRONMENTAL HERITAGE**

**Curriculum: HISTORY AND PRESERVATION OF THE ARTISTIC AND ARCHITECTURAL HERITAGE (CODE 8276)**

<b>Coordinator:</b> Cassata Francesco	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)	
<b>Places:</b> 9 (°) – <b>Grants:</b> 9 (*).	
(*) 6 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28. The number of grants (6) refers to the doctoral research course in its entirety and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list. (*) 3 grants funded by the program ERC 2019 ANTIGONE - Starting Grant Archaeology of Sharing practices. The material evidence of mountain marginalisation in Europe (G.A. n. 853539). These research grants stand on History curriculum. The annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 15.343,28.	
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	14.7.2020 – 9.30 am Video conference (Teams)
<b>Further information on how to present qualifications/publications</b>	<p>Besides the qualifications/publications requested in the public notice exam, candidates are requested to submit by means of the online procedure together with their applications:</p> <p>a) the four year degree thesis, or specialist, or II level degree thesis (in pdf format) which will be evaluated;</p> <p>b) any publications (in pdf format), which will be evaluated;</p> <p>c) a brief description of the research project proposed by the candidate (maximum 30,000 strokes plus an annotated bibliography), which will be evaluated.</p> <p>The project must be organized according to the following points: 1) Objectives; 2) Sources and state of the art; 3) Importance for the advancement of knowledge; 4) Proposed methodology; 5) A developmental work plan.</p> <p>CVs, titles, theses, publications and research projects must be presented in pdf format, attached to the application.</p> <p>Only the titles and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the degree diploma, which will be assessed even if previous) will be assessed and deemed congruent with the research topics of the PhD course and include:</p> <p>1) Master's degree or four-year degree (old system) or qualification deemed equivalent; the thesis will be evaluated;</p> <p>2) Scientific publications, consistent with the themes of the doctorate:</p> <ul style="list-style-type: none"> <li>- monografie;</li> <li>- essays in scientific journals (band A or B in the ANVUR classification);</li> <li>- essays in collective volumes</li> <li>- short essays, historical-critical factsheets.</li> </ul> <p>3) Others:</p> <ul style="list-style-type: none"> <li>- Degrees obtained following the completion of specialization and / or specialization and / or advanced training courses, Masters in subjects related to the research courses of the PhD course;</li> <li>- PhD Diploma;</li> <li>- Second degree in subjects related to the research courses of the PhD course;</li> <li>- Scholarships, Awards, Fellowships;</li> <li>- Research activity carried out at scientific institutions;</li> <li>- Didactic activity carried out at university institutions;</li> <li>- Curricular study experiences abroad;</li> <li>- Internships, traineeships and professional experiences related to the research courses of the PhD course;</li> <li>- Expert of the subject or member of exam commissions in the university environment.</li> </ul>
<b>Exam Syllabus</b>	The interview will concern the presentation and discussion of the research project by the candidate and is aimed at verifying its aptitude for scientific research The evaluation will be based on the following criteria:



	- argumentative skills in the presentation of the research project, knowledge of the state of the art and general preparation on themes and topics related to the project; - foreign language knowledge
<b>Research Themes</b>	The research topics are indicated on the PhD presentation page: <a href="http://www.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-architettonico-e-ambientale/">http://www.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-architettonico-e-ambientale/</a>
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign Languages</b>	French or English or Spanish
<b>Further Information</b>	Prof. Francesco Cassata (+39) 0102095741 <a href="mailto:francesco.cassata@unige.it">francesco.cassata@unige.it</a>  Prof.ssa Paola Valenti (+39) 0102095978 <a href="mailto:paola.valenti@unige.it">paola.valenti@unige.it</a>