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

Curriculum: EARTH SCIENCES (CODE 10569)

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<tr><td colspan="2">Course Coordinator: Scambelluri Marco</td></tr>
<tr><td colspan="2">Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell’Ambiente e della Vita – DISTAV)</td></tr>
<tr><td colspan="2">Places: 4 – Grants: 3 (*)</td></tr>
<tr><td colspan="2">(*) 2 grants funded by the University of Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00;
(*) 1 grant cofunded by MUR/Department (DISTAV), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00;
(°) 1 position reserved for RINA Consulting GET SRL employees;</td></tr>
<tr><td>Comparative assessment procedure</td><td>QUALIFICATIONS/PUBLICATIONS AND INTERVIEW</td></tr>
<tr><td>Interview</td><td>24.07.2024 – ore h.9,30 (CET). Online modality, by contacting in advance and in due time
Prof. Marco Scambelluri
Dipartimento di Scienze della Terra dell'Ambiente e della Vita (DISTAV)
(+39) 0103538307
marco.scambelluri@unige.it</td></tr>
<tr><td>Further information on how to present qualifications/publications</td><td>By titles are meant all information contained in the application form and in the documents attached to it. The application must be accompanied by:
a) the candidate's curriculum vitae et studiorum (maximum ten pages), with indication of the degree mark.
b) a research project relating to one of the research topics published in the call for the XL cycle of the Doctorate in Sciences and Technologies for the Earth and the Environment of the University of Genoa (Earth Sciences curriculum; maximum ten pages).
c) a document containing the title and an abstract of the Master' s degree thesis, together with the list of exams taken and their marks.
d) any additional documented qualification acquired during the candidate's career and relating to the proposed research project and to the research topics pertinent to the PhD Program (maximum ten pages).
e) up to maximum three reference letters: more detail is provided in the in the present call at the section “Information on references”.
Candidates can write their project and application forms either in Italian or in English

<u>Failure in submitting a project on one of the topics listed below will determine the candidate's exclusion from the selection</u></td></tr>
<tr><td>Exam Syllabus</td><td>The interview will deal with:
1. the general knowledge of geological themes, processes and topics of general interest and of specific interest to the proposed research.
2. an in-depth discussion of the activity carried out by the PhD candidate during his/her studies and during the master degree thesis. The interview will also test the candidate's knowledge of basic topics, of analytical and work tools and of the experimental methodologies pertinent to the research topic dealt with in the project presented.
3. the specific research topic that the candidate aims to develop during the research doctorate.
4. an evaluation of the candidate's knowledge of the English language.</td></tr>
<tr><td>Research Themes</td><td>The following list reports the titles of research topics on which the STAT Doctorate fellowships (XL Cycle, Earth Sciences curriculum), are addressed.
More detailed information on the research topics is available on the STAT PhD website (http://www.distav.unige.it/phdstat/it - Research topics).

Candidates must choose <u>only one of the six research topics</u> listed below: presentation of projects on topics different from those listed below will determine the candidate's exclusion from the selection.

1) Finding and characterising the record of seismic cycles in exhumed oceanic rocks (University grant).

2) Timing, facies and (bio)diversity of the shallow marine deposits of the Oligocene transgression in Liguria and southern Piedmont: coupling biostratigraphic data and high resolution palaeoenvironmental reconstructions (University grant).</td></tr>
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	3) Multi-parametric monitoring of the seismogenic process: definition of seismic precursors and their application in the field of earthquake forecasting (University grant). 4) Unraveling Earth's interior: harnessing extensive seismic data sets for analysis (University grant). 5) Geochemical modelling of groundwater mixing with wastewater in coastal aquifers (co-funded with MUR/Department grant). 6) Evolutionary palaeoecology applied to environmental biomonitoring by means of benthic communities (industrial scholarship intended for employees of RINA Consulting GET SRL).
Information on references	In accordance with article 3 paragraph 3 of the call, the candidate 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. Prof. Marco Scambelluri (marco.scambelluri@unige.it, the responsible for the Doctorate curriculum).
Foreign Languages	English
Further Information	Further information is available on the doctorate website (http://www.distav.unige.it/phdstat/it) and can be requested to • Prof. Laura Federico (laura.federico@unige.it), for theme 1; • Prof. Antonino Briguglio (antonino.briguglio@unige.it), for theme 2; • Prof. Simone Barani (simone.barani@unige.it), for theme 3; • Prof. Daniele Spallarossa (daniele.spallarossa@unige.it), for theme 4; • Prof. Marino Zuccolini (marino.zuccolini@unige.it), for theme 5; • Prof. Antonino Briguglio (antonino.briguglio@unige.it), for theme 6; • Prof. Marco Scambelluri (marco.scambelluri@unige.it), PhD coordinator.