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## ANNEX A

### PhD Course Ecology and Territory (DOT197W57F)

<b>Coordinator</b>	Prof. Bruno Lasserre e-mail: <a href="mailto:lasserre@unimol.it">lasserre@unimol.it</a>	
<b>CUN Area</b>	04 – 05 – 07 – 08a - 11a	
<b>E.R.C.</b>	GEO/04, BIO/03, BIO/05, BIO/07, AGR/01, AGR/05, AGR/06, ICAR/20, M-GGR/01, M-STO/02	
<b>Overview</b>	<p>The PhD Course in Ecology and Territory of the University of Molise aims to develop advanced scientific and technological abilities required to carry out highly qualified autonomous research activities, even with an interdisciplinary approach, to apply to the fields of conservation, enhancement, management and sustainable planning of natural resources and territorial heritage, also with reference to the process of territorialisation in a diachronic perspective.</p> <p>In particular, doctoral students acquire theoretical and practical knowledge to: carry out functional analysis of environmental (geo-eco-cultural) and territorial systems, define and implement environmental and territorial monitoring protocols and advanced tools for the conservation and enhancement of biodiversity, develop and use sustainable landscape management and planning approaches, carrying out environmental impact analysis and strategic environmental assessment and the related historical and geographical investigations, using innovative methodologies for the protection of environmental and cultural assets. Overall, the course involves the study of the territory in its different dimensions, with innovative multi-scale approaches aimed at integrating the need for environmental protection and health with that of sustainable socio-economic development, also through the design of prevention and management systems of natural and man-made risks, of green infrastructures for resilience and urban regeneration.</p> <p>The interdisciplinary training objectives of the course are also oriented towards the acquisition of in-depth knowledge of the English language, data processing skills, and ability to manage research activities. Additional informations on the PhD Program are available at the PhD Course website <a href="http://dipbioter.unimol.it/dottoratoecoterr-xxxvii-ciclo/">http://dipbioter.unimol.it/dottoratoecoterr-xxxvii-ciclo/</a></p>	
<b>Website</b>	Additional informations on the PhD Program are available at the PhD Course website <a href="http://dipbioter.unimol.it/dottoratoecoterr/">http://dipbioter.unimol.it/dottoratoecoterr/</a>	
<b>Duration</b>	01/11/2023 – 31/10/2026	
<b>Available positions</b>	Positions with Ordinary scholarships	1
	Position with scholarship <b>DM 118/2023 <i>transizioni digitali e ambientali (M4C1 – Inv. 3.4)</i></b>	1
	Theme: Ecological monitoring and modelling of some United Nations Sustainable Development Goals (UN-SDGs) aided by Remote Sensing indicators	
	-Period in Italy of n. 6 months at: ECOVIEW SRL, con sede legale in Contrada Specola 43, 64100 Teramo (TE)	
	-Period abroad of n. 6 months at: Czech University of Life Sciences, Prague, Czech Republic	
	Positions with cofinancing from Department projects	2
	<b>TOTAL Positions with scholarships</b>	4
	<b>Positions without scholarships</b>	1
<b>Requirements for admission to the competition</b>	<p>All specialized or master's degrees, or degrees of the system prior to that introduced with the D.M. 509/1999.</p> <p>For candidates who have acquired the title abroad, the latter must have equivalent characteristics with those indicated above.</p>	
<b>Assessable qualifications and related score</b>	<p><b>List of assessable qualifications (score up to a maximum of <u>20/100</u>):</b></p> <ul style="list-style-type: none"> <li>- <i>curriculum vitae et studiorum</i>;</li> <li>- Final degree mark; in the case students did not graduated yet the average of the marks obtained to each exam will be considered (max 5 points)</li> <li>- Scientific publications on peer-reviewed journals (max. 3), scientific publications in congress proceedings (max 3) (max 5 points)</li> </ul>	





	<ul style="list-style-type: none"> <li>- participation to national and international congresses with oral presentations and posters (max 5 points)</li> <li>- posters (from 0 to 5 points)</li> <li>- Other qualifications considered evaluable (study grants, awards, courses attended, Masters, Erasmus or study programs abroad, work experiences related to the PhD themes, etc) (max 5 points)</li> </ul>
<p><b>In the evaluation of applications for scholarships financed with the resources referred to in Ministerial Decree 118/2023 and with particular reference to the project proposal presented by the candidates, the Commissions will also take into account the criteria set out in Ministerial Decree <a href="#">118/2023</a></b></p>	
<p><b>In the evaluation of applications for scholarships financed with the resources referred to in Ministerial Decree 117/2023 and with particular reference to the project proposal presented by the candidates, the Commissions will also take into account the criteria set out in Ministerial Decree <a href="#">117/2023</a>.</b></p>	
<p><b>Thematic areas of the research project proposals and of the interview</b></p> <p><i>Please note that the project proposal illustrated in the report, prepared for the competition, is not necessarily the project that will be carried out during the PhD program. If admitted, the research project that will in fact be carried out will be subsequently defined and approved by the Program Faculty Board after the start of the PhD Program.</i></p>	<p><b>Research proposal (score up to a maximum of di <u>30/100</u>):</b></p> <p>Candidates are required to prepare a research project proposal to be submitted along with the application must be dated and signed, using annex 5.</p> <p>The project proposal, coherent with second level degree must be on <b>one</b> of the following themes selected among those of interest:</p> <ol style="list-style-type: none"> <li>1. Theme: Co-evolutionary dynamics of local/regional systems and multi-scale dimension of sustainable development, also with reference to territorial enhancement and regeneration processes <b>Ordinary fellowship</b></li> <li>2. Monitoring through the use of innovative sensors of ecophysiological parameters of Mediterranean forest populations <b>Position with cofinancing from Department projects</b></li> <li>3. Analysis of land use dynamics in relation to natural disturbance phenomena <b>Position with cofinancing from Department projects</b></li> <li>4. Theme: Ecological monitoring and modelling of some United Nations Sustainable Development Goals (UN-SDGs) aided by Remote Sensing indicators <b>DM 118/2023: transizioni digitali e ambientali (M4C1 – Inv. 3.4)</b></li> </ol> <p><b>Interview</b></p> <p>The oral exam and interview (score up to a maximum of 50/100) will consist of the oral presentation of the research proposal and a discussion of the technical and scientific issues related to it. Knowledge of the English language will also be evaluated. Candidates can carry out the presentation and discussion in English.</p>
<p><b>Assessment criteria and ranking of the candidates</b></p>	<p>The assessment of academic qualifications is preparatory to the interview. The results of the evaluation phase will be published, as soon as available on the website <a href="https://www2.unimol.it/dottorato/">https://www2.unimol.it/dottorato/</a>.</p> <p>To be admitted to the oral exam, the candidate must get a score that should be not less than 30/100 (given by the sum of the evaluation of qualifications and of project proposal).</p> <p>The maximum score is equal to 100/100, divided into the following sub-scores</p> <ul style="list-style-type: none"> <li>- <b><u>20/100 Academic qualifications</u></b></li> <li>- <b><u>30/100 Research proposal in written form</u></b> <ol style="list-style-type: none"> <li>a. Consistency of the project proposal with the themes indicated (max 6 points)</li> </ol> </li> </ul>





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	<p>b. Originality of the project and the contribution to knowledge in the area (max 6 points)</p> <p>c. Clarity and mastery of knowledge in the area of the project - state of the art (max 6 points)</p> <p>d. Project structure and feasibility (max 6 points)</p> <p>e. Organization and synthesis (max 6 points)</p> <p>- <b><u>50/100 Interview and knowledge of English language</u></b></p> <p>a. Clarity and mastery of knowledge in the area of the project - state of the art (max 15 points)</p> <p>b. Clarity of the candidate to expose and describe the objectives, originality, expected results, contribution to the knowledge of the area and any application implications of the proposed research (max 20 points)</p> <p>c. Candidate's ability to discuss the structure of the project, including methods (max 15 points)</p> <p>The results of II evaluation phase will be published, as soon as available on the website <a href="https://www2.unimol.it/dottorato/">https://www2.unimol.it/dottorato/</a>.</p>
<b>Merit ranking</b>	Candidates with an overall score of at least 60/100 points will be included in the overall merit ranking.
<b>Interview calendar</b>	<p>Date: September 12<sup>th</sup> 2023 at 9.00 (Rome Time); the agenda of the interviews will be defined by the Selection Committee depending on the number of candidates admitted to oral exam.</p> <p>Place: for those who choose to take the oral exam</p> <p>- <b>in presence:</b> Room SRC, Department of Bioscience and Territory, University of Molise, Contrada Fonte Lappone; 86100 Pesche (IS), ITALY.</p> <p>- <b>online:</b> Google <i>Meet</i> at <a href="https://meet.google.com/kvm-gpkj-mft">meet.google.com/kvm-gpkj-mft</a></p>

