

DOCTORAL PROGRAMME

IN

AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Coordinator prof. Giacomo Pietramellara

XXXVIII cycle – academic year 2022/2023

TECHNOLOGICAL AREA	
ADMINISTRATIVE OFFICE	Department of Agri-food, Environment and Forestry Sciences and Technologies
<p>POSITIONS AVAILABLE: 8 Positions with Scholarship: 7 Reserved position: 1 Position without Scholarship: <i>not available</i></p>	
SCHOLARSHIPS: 7	University of Florence
RESERVED POSITION: 1	Reserved position for l'Azienda Nazionale Allevatori della razza Frisona, Bruna e Jersey Italiana (ANAFIBJ) employees
STUDY/RESEARCH PERIODS ABROAD	1-3 mesi
<p>DOCUMENTS REQUIRED FOR THE ADMISSION (under penalty of exclusion)</p>	<ul style="list-style-type: none"> • Copy of the Identification Document • Self-declaration for qualifications obtained in Italy (laurea triennale, specialistica o magistrale o ciclo unico) with a list of all exams taken and their marks, title of the thesis and graduation mark (download the form here, make sure you fill in all the fields) • Qualifications obtained abroad (Bachelor's and Master Degrees or combined cycle Degree) with a list of all exams taken and their marks, title of the thesis and graduation mark. <p><i>The same documentation except for the final mark must be submitted by those who will graduate within the 31/10/2022</i></p>
<p>DOCUMENTS REQUIRED FOR THE EVALUATION</p>	<p>MANDATORY</p> <ul style="list-style-type: none"> • Curriculum vitae (european format) • Research Project <p>OPTIONAL</p> <ul style="list-style-type: none"> • Publications • Any other scientific qualification document
REFERENCE LETTERS	A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.

<p>RESEARCH PROJECT</p>	<p>Research project has to be prepared in Italian or English in no more than 12.000 characters including spacing, and structured in introduction, state of the art, objectives, materials and methods with temporal distribution of the phases, expected results. For XXXVIII- cycle, several priorities of interest have been selected. The project must relate, and should make specific reference, to one of them listed in the section below: “Thematics”.</p> <p>The research project should be attached to the application form and it should be made as the project pattern uploaded into the following departmental webpage (section “dottorato di ricerca”): www.dottoratoscienzeagrarieambientali.unifi.it. The research project should be focused on a possible research activity, which the applicant will be going to execute during the three-year doctoral program.</p>																		
<p>INTERVIEW MODE</p>	<p>Remotely (Videocall)</p> <p>The interview can be conducted in Italian or in English language; if it is conducted in Italian, English skills will be tested during interview.</p>																		
<p>EVALUATION MARKS</p>	<table border="1" data-bbox="480 808 1414 1234"> <thead> <tr> <th data-bbox="480 808 1082 913">parameter</th> <th data-bbox="1082 808 1254 913">minimum score</th> <th data-bbox="1254 808 1414 913">maximum score</th> </tr> </thead> <tbody> <tr> <td data-bbox="480 913 1082 987">Curriculum vitae, scientific qualification documents,</td> <td data-bbox="1082 913 1254 987">10/120</td> <td data-bbox="1254 913 1414 987">15/120</td> </tr> <tr> <td data-bbox="480 987 1082 1032">Research Project redaction</td> <td data-bbox="1082 987 1254 1032">30/120</td> <td data-bbox="1254 987 1414 1032">40/120</td> </tr> <tr> <td colspan="3" data-bbox="480 1032 1414 1106">Applicants who obtain a mark of at least 40/120 according to the minimum score for each parameter will be admitted to the interview</td> </tr> <tr> <td data-bbox="480 1106 1082 1180">Interview: discussion of the research project and any other qualification document</td> <td data-bbox="1082 1106 1254 1180">40/120</td> <td data-bbox="1254 1106 1414 1180">65/120</td> </tr> <tr> <td colspan="3" data-bbox="480 1180 1414 1234">Eligibility is achieved with a minimum score of 80/120</td> </tr> </tbody> </table>	parameter	minimum score	maximum score	Curriculum vitae, scientific qualification documents,	10/120	15/120	Research Project redaction	30/120	40/120	Applicants who obtain a mark of at least 40/120 according to the minimum score for each parameter will be admitted to the interview			Interview: discussion of the research project and any other qualification document	40/120	65/120	Eligibility is achieved with a minimum score of 80/120		
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<p>THEMATICS</p>	<p>Purple non sulfur bacteria: ideal microbial cell factories for biotransformation of agro-industrial wastes into high added value molecules;</p> <p>Role of the exopolysaccharide levan in the life cycle of <i>Pseudomonas syringae</i> pv. actinidiae biovar 3, a phytopathogenic member of the bacterial community of <i>Pseudomonas</i> sp. associated with kiwifruit;</p> <p>Genomic evaluations and mating plans aimed at increasing beef cattle profitability and resilience;</p> <p>From land to water: circularity for the development of a zero-waste food supply chain (FLAWA);</p> <p>Interactive effects of global warming and management on plant biodiversity and microclimate of Mediterranean forests;</p> <p>Study of circular agro-ecology practices at farm and territorial level for the enhancement of organic residues from coffee processing, home separate collection and vine pruning;</p> <p>Crop productivity and sustainability of agro-photovoltaic systems in response to climate change.</p>																		
<p>Additional information on the course is available on the following web page: www.dottoratoscienzeagrarieambientali.unifi.it</p>																			

EXAMINATION SCHEDULE		
	DATE	TIME
INTERVIEW	August 23 rd -24 th 2022	9:30 a.m.
The list of candidates admitted to the interview and the final ranking will be published at the following web page: https://www.unifi.it/p12202.html		