



DOCTORAL PROGRAMME

IN

AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Director prof. Giacomo Pietramellara

XXXVI cycle – academic year 2020/2021

TECHNOLOGICAL AREA	
ADMINISTRATIVE OFFICE	Department of Agri-food, Environment and Forestry Sciences and Technologies
POSITIONS AVAILABLE: 7 Positions with Scholarship: 6 Position without Scholarship: 1	
SCHOLARSHIPS: 6	University of Florence
STUDY/RESEARCH PERIODS ABROAD	Mandatory only for positions with scholarship
MANDATORY PERIOD REQUIRED	3 months
DOCUMENTS REQUIRED FOR THE ADMISSION (under penalty of exclusion)	<ul style="list-style-type: none">• Copy of the Identification Document• <u>Replacement Declaration Form</u> self-declaration for:<ul style="list-style-type: none">- Italian Degree required for the access- transcript of records with marks (<i>for those candidates whose degrees will be awarded within the 31st October 2020</i>)- acknowledgment of compliance for any other qualification documents enclosed with the application• Foreign Degree required for the access (<i>those candidates whose degrees will be awarded within the 31st October 2020 shall enclose the list of the examinations completed with marks</i>)
DOCUMENTS REQUIRED FOR THE EVALUATION	MANDATORY <ul style="list-style-type: none">• Curriculum vitae (european format)• Research Project OPTIONAL <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.
RESEARCH PROJECT	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 XXXVI cycle, several priorities of interest have been selected. The project must relate, and should make specific reference, to

	<p>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: https://www.dottoratoscienzeagrariambientali.unifi.it/ (section “dottorato di ricerca”). 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>																		
EVALUATION PROCEDURE	<ul style="list-style-type: none"> • Evaluation of curriculum vitae, research project, publications and other qualification documents • Interview <p>As detailed in the section below “Evaluation Marks”.</p>																		
OTHER LANGUAGE FOR THE INTERVIEW	English																		
INTERVIEW by remote mode	Google Meet or Skype																		
FURTHER INFORMATION	The interview can be equally taken in Italian or in English language; if it is taken in Italian, English skills will be tested during the oral examination.																		
EVALUATION MARKS	<table border="1"> <thead> <tr> <th>parameter</th> <th>minimum score</th> <th>maximum score</th> </tr> </thead> <tbody> <tr> <td>Curriculum vitae, publication, qualification documents,</td> <td>10/120</td> <td>15/120</td> </tr> <tr> <td>Research Project redaction</td> <td>30/120</td> <td>40/120</td> </tr> <tr> <td colspan="3">Applicants who obtain a mark of at least 40/120 in the evaluation of the above parameters will be admitted to the oral examination</td> </tr> <tr> <td>Interview: discussion of the research project and any publications</td> <td>40/120</td> <td>65/120</td> </tr> <tr> <td colspan="3">Eligibility is achieved with a minimum score of 80/120</td> </tr> </tbody> </table>	parameter	minimum score	maximum score	Curriculum vitae, publication, qualification documents,	10/120	15/120	Research Project redaction	30/120	40/120	Applicants who obtain a mark of at least 40/120 in the evaluation of the above parameters will be admitted to the oral examination			Interview: discussion of the research project and any publications	40/120	65/120	Eligibility is achieved with a minimum score of 80/120		
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THEMATICS	<p>Urban soils of historic cities and Technosols to design for the smart cities of the future;</p> <p>Diagnostics, epidemiology and control of emerging oomycetes and phytopathogenic fungi;</p> <p>Growth and vitality of deciduous and evergreen tree species under climate change in Mediterranean areas;</p> <p>Food safety and vegetables: proliferation and persistence of human pathogens in vegetable crops at the baby-leaf stage;</p> <p>Physiological and electrophysiological investigations in the plant-insect mutualistic relationship;</p> <p>Use of olive oil polyphenols in ruminant feeding as modulator of rumen fermentation;</p> <p>Use of irrigation and ZeoWine treatment to mitigate climate change in viticulture.</p> <p>Soil fertilization strategies based on agroecological practices in an organic long term experiment;</p> <p>Landscape genomics approaches for an adaptive silviculture;</p> <p>New sustainable approaches for fish farmed with more sustainable and ethical criteria;</p> <p>Erosive processes and hydrogeological instability;</p> <p>Biostimulants from microalgae: optimisation of culture conditions and identification of bioactive fractions.</p>																		

Further information available at the following web page:
<https://www.dottoratoscienzeagricarieambientali.unifi.it/>

EXAMINATIONS SCHEDULE

	DATE	TIME
INTERVIEW	July 30 th - 31 st 2020	9:00 a.m.

The list of the candidates admitted to the interview and the final ranking will be published at the following web page: <https://www.unifi.it/p11741.html>