





DOCTORAL PROGRAMME IN AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Director prof. Carlo Viti

XLI cycle – academic year 2025/2026

TECHNOLOGICAL AREA		
ADMINISTRATIVE OFFICE	Department of Agri-food, Environment and Forestry Sciences and Technologies	
WEB	www.dottoratoscienzeagrarieambientali.unifi.it	
POSITIONS AVAILABLE: 8 Positions with Scholarship: 7 Position without Scholarship: 1		
RANKING LIST FOR STANDARD POSITIONS SCHOLARSHIPS AVAILABLE: 6	University of Florence	
RANKING LIST FOR POSITIONS WITH SPECIFIC RESEARCH TOPIC SCHOLARSHIPS AVAILABLE:1	ANAFIBJ (Associazione Nazionale Allevatori della Razza Frisona, Bruna e Jersey Italiana) Thematic: "Multi-breed genomic evaluations for dairy cattle and their crosses with beef breeds" The Doctoral project will focus on the development of genetic evaluation models, which will have to include data from: - Two or more dairy cattle breeds - One dairy cattle breed, cross-bred with other dairy breeds - One dairy cattle breed, cross-bred with beef breeds. These models will have to incorporate genomic information, as well as performance and pedigree data.	
STUDY/RESEARCH PERIODS ABROAD	3 months	
DOCUMENTS REQUIRED FOR THE ADMISSION (under penalty of exclusion)	 Copy of the Identification Document Self-certification for qualifications obtained in Italy (laurea triennale, specialistica o magistrale o ciclo unico) with list of exams taken, credits and related grade, title of the thesis and graduation mark (using this template or similar forms containing the required information) Qualifications obtained abroad (Bachelor's and Master Degrees or combined cycle Degree) with a list of all exams taken, credits and related grade, title of the thesis and graduation mark 	

	The same documentation except for the final mark must be submitted by those who will graduate within the 31/10/2025			
DOCUMENTS REQUIRED FOR THE EVALUATION	 MANDATORY Curriculum vitae (european format) Research Project OPTIONAL Publications Any other scientific qualification document 			
RESEARCH PROJECT	Research project has to be prepared in 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 41° 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 ". 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: 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. The candidate may apply for more than one ranking by attaching a separate project for each one and clearly indicating the reference to the chosen scholarship.			
INTERVIEW MODE	Remotely (Videocall) The interview can be conducted in Italian or in English language; if it is conducted in Italian, English skills will be tested during interview.			
EVALUATION MARKS	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			
THEMATICS	 Development of innovative phenotyping approaches for early detection of stress in herbaceous crops Cool forest microrefugia in the Mediterranean region: microclimate, plant diversity and conservation Building purple bacteria-based microbial communities combining wastewater treatment and high added-value biomolecules production Exploiting -omics Approaches to Develop <i>Rhizobium</i>-Based Bioinoculants for Drought-Resilient Chickpea Cultivation 			

• Characterization of <i>Arbutus unedo</i> genotypes for sustainable landscaping and fruit production: drought tolerance, fruit quality, and post-harvest physiology	
 Making 'fertile and healthy' Technosols within a circular economy framework to enhance urban planting success 	
 Study of Biological Heterogeneous Material in Agroforestry for an Agroecological Transition in the Mediterranean Area (POSITION WITHOUT SCHOLARSHIP) 	

EXAMINATION SCHEDULE				
DATE TIME				
INTERVIEW	July 17 th -18 th 2025	09:30 a.m.		
The list of the candidates admitted to the interview and the final ranking will be published at the page PhD courses				