





Annex A

Ph.D. PROGRAMME IN ECOLOGY AND SUSTAINABLE MANAGEMENT OF ENVIRONMENTAL RESOURCES						
					Coordinator	
	Prof. Massimiliano Fenice					
Department						
		Department of Ecological and Biological Sciences				
Program duration	•	,				
Barrier although an	•					
Program objectives	Environmental Resources" is active Biological Sciences (DEB). It is interdisciplinarity, in which theme and chemical sciences converge. T general principles of Life Sciene management of environmental and to agricultural and forestry resourcourse is training in the field of base particular regard to the sust environmental management, eco- processes (including the development and the mitigation of human imp levels. PhD students will acquire the multidisciplinary problems associa the management and conservation point of view, specific objectives operate in highly multidisciplinary degree of autonomy, originality a approaches; (ii) to drive the development According to these goals, compu- enhancing language proficiency, d	3 years: 1 st November 2024 – 31 th October 2027 PhD Thesis due date: 30 th September 2027 The PhD Program in "Ecology and Sustainable Management of Environmental Resources" is active at the Department of Ecological and Biological Sciences (DEB). It is an innovative program with high interdisciplinarity, in which themes of ecological, biological, agro-forestry and chemical sciences converge. The unifying theme is the application of general principles of Life Sciences for the purpose of sustainable management of environmental and natural resources: from biodiversity, to agricultural and forestry resources, to biomolecules. The aim of the course is training in the field of basic and applied ecological research with particular regard to the sustainable use of natural resources, environmental management, eco-sustainable optimization of production processes (including the development of new green active compounds) and the mitigation of human impacts on biodiversity at all organization levels. PhD students will acquire the skills needed to address complex and multidisciplinary problems associated with both the research activity and the management and conservation of natural resources. From a training point of view, specific objectives are: i) to provide the skills needed to operate in highly multidisciplinary scientific research areas with a high degree of autonomy, originality and the use of rigorous methodological approaches; (ii) to drive the development of communication skills in presenting research results and in drafting competitive scientific projects. According to these goals, compulsory educational activities aimed at enhancing language proficiency, data analysis capabilities, and the ability to disseminate scientific results will be offered. The multidisciplinary				
	molecular genetics to evolutionary ecology also in relation to global					
	change.	, ,	с, <u></u>			
No. of positions	Total positions	9				
	Positions with scholarships funded by the University of	5				

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	Tuscia and Department	of			
	Ecological and Biological	Sciences			
	Positions with PNRR sch	olarships	2	D.M. 630	/2024 - M4C2 Inv. 3.3
	Position with scholarship	o funded			
	by the Istituto Superiore	di Sanità			
	(Italian National Institut	e of			
	Health)		1		
	1 PhD position within th				
	programme Horizon Eur				
	MSCA Doctoral Network				
	Skłodowska-Curie Action		1	-	01120280 — PHABB
Scholarships funded by	No. 5 (five) scholarships funded by the University of Tuscia an				-
University of Tuscia and	Department of Ecological and Biological Sciences on the following topics				
Department of Ecological					
and Biological Sciences	1. "Studies of prebiotic chemistry and biotechnology in space and				nnology in space and
	terrestrial environments				
	Project leader: Prof. Raffaele Saladino				
	2 "Analysis of hurnod Mediterranean soils influenced by global warming"				
	2. "Analysis of burned Mediterranean soils influenced by global warming"Project leader: Prof. Laura Selbmann				
	 3. "Development of multicomponent prebiotic chemistry models for the study of the origin of life and biological applications" 				
					emistry models for the
	Project leader: Prof. Raffaele Saladino				
	-,				
	4. Management effective	eness of pro	otect	ed areas"	
	Project leader: Prof. Gia	Project leader: Prof. Gianluca Piovesan			
	0,1	Ecology, evolution and conservation of marine organisms"			
	Project leader: Prof. Daniele Canestrelli				
Positions with PNRR DM	M4C2 Inv. 3.3 Innovative doctorate scholarship co-funded by companies				
630/2024 scholarship	No. 2 (two) scholarships on the topics: a. "Evolution of scientific communication strategies and their impact on biadiversity concentration"				oc and their impact an
	biodiversity conservation"				
	Co-funding body: ITRO Team S.r.l. , Viterbo Project leaders: Prof. Daniele Canestrelli and Prof. Chiara Baldacchini				
	b. "Identification of natural and anthropogenic barriers to the connectivity				
	of populations within a protected area"				
	Co-funding body: Centro Nazionale delle Ricerche – IRET, Porano TR				
	Project leader: Prof. Dar	iele Canest	relli		
	Please note that the acceptance of a PNRR scholarship implies obligations				
	additional to those of a regular scholarship: see art. 16 of this Call.			t. 16 of this Call.	

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Position with scholarship	The topic of the position is the following:				
funded by the istituto	" A One Health approach to antibiotic resistance: role of toxic freshwater				
Superiore di Sanità	cyanobacteria in the evolution and spread of antibiotic resistance. A study				
	of cultures and natural communities"				
	Project leader: Dr Maura Manganelli (ISS)				
1 PhD position within the	The topic of the position is the following:				
programme Horizon Europe,	"Identification, through meta-barcode sequencing, and in vitro culturing				
MSCA Doctoral Networks,	Harmful Algal Blooms (HAB) species (i.e., Planktothrix spp.) and their				
Marie Skłodowska-Curie	associated microbiota from Italian inland lakes. Identification of possible				
Actions	non-toxigenic HAB-related strains by specific targeting"				
	Project leader: Prof. Massimiliano Fenice				
Admission requirements	Application to the public competition is open to all who, by the date this				
	call expires, possess one of the qualifications listed hereunder, regardless				
	of age and citizenship:				
	- an Italian "laurea specialistica" obtained according to the Ministerial Decree n. 509/1999;				
	- an Italian "laurea magistrale" obtained according to the Ministerial				
	Decree n. 270/2004;				
	- an Italian equivalent university degree obtained under Italian regulations				
	previously in force and whose length is no less than 4 years;				
	- a foreign degree equivalent to those mentioned above.				
	Applications can be submitted also by graduate students who are going to				
	graduate no later tha				
Admission requirements for	The admission requirements for the Marie Skłodowska-Curie scholarship				
The Marie Curie scholarship	are specified in Annex B .				
Evaluation of candidates	Evaluation of academic qualification and oral interview including English				
(maximum score: 80/80	language knowledge				
points)	The results will be published on the Tuscia University Website, under the label "Dottorati di Ricerca".				
	Along with the application form, the candidates must present a research				
	project concerning one of the topics of the Ph.D (listed above), with a				
	maximum length of 3 pages, written in Italian or in English. The research				
	project will be discuss	ed during the oral exam.			
	All the (non-mother la	inguage) applicants will be eva	aluated for their English		
	language during the c	oral examination.			
Evaluation criteria for	- Academic career (Certificate with the list of marks obtained during the				
academic qualification	academic career and final grade): max score: 6 points				
(maximum score: 20/80	- Scientific publications related to the topics of Ph.D.: max score 6 points				
points)	- Participation in research projects: max score: 4 points				
	- Professional experiences and other qualifications considered useful: max				
	score 4 points				
Evaluation of the oral exam	Oral exam: maximum score 60/80 points				
	Minimum score required to pass the oral interview 21/80 points				
	Language for the examinations: Italian (Italian candidates, with a furthe				
	English exam) or Engl	ish (foreign candidates)			

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Examination topics	The interview, aimed at ascertaining the aptitude of candidates for scientific research, will focus on the presentation and discussion of the proposed research project, on the research topics of the PhD program and on knowledge of the English language.		
Exam dates and location	The exams will be held by 12 September 2024. The timetable of the interview will be on the Tuscia University website, under the label " <u>Dottorati di Ricerca</u> " by the deadline of the application call.		
Contacts	Contact persons: Prof. Massimiliano Fenice (Coordinator): e-mail: <u>fenice@unitus.it</u> Dr. Fabrizio Scialanca: e-mail: <u>fabrizio.scialanca@unitus.it</u>		