







Annex A

PH.D. PROGRAM IN SCIENCE, TECHNOLOGY AND BIOTECHNOLOGY FOR SUSTAINABILITY			
Coordinator	Prof. Andrea Vannini		
Department	Department for Innovation in Biological, Agrofood and Forest systems (DIBAF)		
Program duration	3 years: 2 <sup>nd</sup> January 2024 – 31 <sup>st</sup> December 2026 Thesis Defence: within May 2027		
Program objectives	<ul> <li>The main aim of this PhD course is to provide high-quality training in research methods and prepare professional researchers for Universities, Research Institutions and Industries in three fields of research:</li> <li>1) Food products (<i>no positions open in this call</i>);</li> <li>2) Forest Ecology and environmental technologies;</li> <li>3) Biological systems/ Bioindustries (<i>no positions open in this call</i>);</li> </ul>		
	The research activities of the curriculum <i>Forest ecology and environmental technologies</i> will include the functionality and structure of forest systems, the soil system being included; forest biodiversity; monitoring and management of forest and environmental resources; the ecological recovery of degraded ecosystems; climate and global change mitigation and adaptation.		
	The teaching program is directed to provide students with skills in English language, statistical analysis of experimental data, bioeconomic, and assessment of the environmental sustainability of complex systems. In the positions open in this call a specific training is also organized in the context of the Research Infrastructures.		
Positions with fellowship co-funded by public bodies and by DIBAF Department /University	no. 4 PhD scholarships co-funded by the Institute of Research on Terrestrial Ecosystems (IRET) of the National Research Council (CNR) in the framework of the ITINERIS project - Italian Integrated Environmental Research Infrastructures System		
	Curriculum Forest Ecology and environmental technologies		
	<ul> <li>n. 2 scholarships co-funded by DIBAF</li> <li>1. Topic: Development of new methods, tools, pipelines and software infrastructures for the quality evaluation and analysis of environmental data</li> <li>Advisor: Prof. Giovanni Chillemi</li> <li>Advisor: Prof. Nico Sanna</li> </ul>		
	<ul> <li>n. 1 scholarship co-funded by Agenzia Regionale per la Protezione dell'Ambiente (ARPA) Regione Autonoma Valle d'Aosta</li> <li>2. Topic: Evaluation of the CO2 Absorption Capacity of Different Land Uses in the Alps</li> <li>This fellowship requires a period of activities in Valle d'Aosta of at least 30 months.</li> <li>Advisor: Prof. Dario Papale</li> </ul>		
	<ul> <li>n. 1 scholarship co-funded by UNITUS</li> <li><b>3.</b> Topic: Monitoring and analysis of ecosystems and related ecological processes</li> <li>Advisor: Prof. Dario Papale</li> </ul>		

Admission	Application to the public competition is open to all, r	egardles	s of age and
requirements	citizenship, who, by the date this call expires, possess one of the qualifications listed below:		
	<ul> <li>- an Italian "laurea specialistica" degree, obtained accord</li> <li>Decree n. 509/1999;</li> </ul>	ding to t	he Ministerial
	- an Italian "laurea magistrale" degree, obtained accord	ling to t	he Ministerial
	- an Italian equivalent university degree obtained under	the Italia	an regulations
	previously in force, the timespan of which being no less	than 4 ye	ears;
	Admission is also open to university students who will fin	ish their	MS degree by
	the scheduled enrolment date (29 December 2023). In the	nis case,	admission will
	be "conditional"; the applicants will send by mail (dotto	rati@un	<mark>itus.it</mark> ) to the
	"Ufficio Offerta Formativa" a self-certification of th	e relativ	ve degree (a
	certification in case of Non-EU students). Self-certificat	ion (or c awardi	certification in
	award date, grade and type of qualification ("ve	ecchio c	ordinamento",
	"Specialistica"/ "Magistrale") and a copy of a valic	l identit	y document.
	Applicants not in possess of the admission requirements	must ind	licate the date
Traduction of	by which they expect to obtain the qualification required	1.	
Evaluation of candidates	Evaluation of academic qualification and oral examination Assessment of the English Language Knowledge (for Ital	on lian cand	lidates only)
(Maximum score: 80	Language for the examination: English		indates only
out of 80)	The final score is given by summing the scores rela	tive to	the academic
	qualification and oral examination. These scores will	be pub	lished on the
	specific <u>webpage</u> of the PhD programmes.		
	logether with the application form, candidates shoul	a prese	nt a research
	of 8000 characters, which must be written in Italian or	English.	The research
	project will be discussed during the oral exam.		
Evaluation of academic	Master's thesis and coherence with the Topic:	max	2 points
qualification (Maximum	University career (exams taken with the relative grades		2 points
	Scientific nublications relating to the areas of Ph D .	max	3 points
	Participation to research projects:	max	2 points
	Professional experiences and other qualifications		
	that each candidate considers useful, including digital		
	competences:	max	4 points 7 points
	Research project submitted by the candidate.	Шах	7 points
	The minimum score for a positive evaluation and admis will be at least 10 out of 20 points.	sion to	the oral exam
	Before of the oral exam, the evaluation of academic qual	ification	results will be
	published on the specific webpage of the PhD programm	es	
Evaluation of the oral	Oral exam: maximum score 60 out of 80 points		
exam	points.	3st 40 ou	IT OF 80
Topics of the oral	Curriculum in Forest Ecology and environmental techno	logies	
examination	The oral exam will be aimed at assessing the candidate	's basic	knowledge of
	the forest ecology and environmental technologies with	n specifi	c attention to
	the functionality, structure, biodiversity, monitoring and	manage	ment of forest
	adaptation, forest resilience and restoration of degrad	ed ecos	vstems. It will
	also focus on the discussion of the research project prese	nted by	the candidate,
	which must be in line with one or more of the topics of t	he schol	arships.

Exam dates and	The exams will be held online between 18 and 22 December 2023.
locations	The date(s) of the interview will be published on the specific webpage of
	the PhD programmes by the deadline of the Application Call.
<b>Contacts to information</b>	Prof. Dario Papale e-mail <u>darpap@unitus.it</u>