

ANNEX 1/d			
PhD program: AGRICULTURAL, FOREST AND FOOD SCIENCES ASSOCIATED WITH SALERNO UNIVERSITY			
XLI CYCLE – a.y. 2025-2026			
Department	Department of Agricultural, Forestry, Food and Environmental Sciences (DAFE) - Potenza		
Coordinator	Prof.ssa Teresa ZOTTA e-mail: dafe.dottorato@unibas.it		
Duration	3 years		
Web site	https://dafe.unibas.it/site/home/didattica/offerta-post-laurea/articolo32006419.html		
Curricula	<ol style="list-style-type: none"> 1. Agricultural, Forest and Environmental Science 2. Food Sciences and Engineering 		
Aims and topics	<p>The objective of PhD course is to provide to the PhD students a solid preparation, in terms of both knowledge and skills of basic aspects (e.g. scientific method, ability in expression and presentation, ability to manage research projects and working groups, teaching skills) and applications (e.g. transfer and evaluation of scientific-technological innovations), in order to carry out research and management activities at qualitatively high levels.</p> <p>Specifically, the preparation of doctoral students will be focused to train figures able to:</p> <ol style="list-style-type: none"> a) develop and propose research projects to local, national or international institutions, as well as to private industries; b) identify the needs of research according to their scientific, social and economic impact; c) carry out research in one or more specific sectors of PhD course at high quality levels (including bibliographic research, planning and development of experimental activities, data analysis); d) communicate and disseminate the results of research to scientific and non-scientific community (oral communications, publications on high-impact journals); e) transfer knowledge through teaching activities to academic institutions, industries, non-scientific communities; f) transfer the results of research in public and private sectors (knowing the issues related to Intellectual Property Rights, designing spin-offs and start-ups). 		
Admission requirements	<ol style="list-style-type: none"> a) University degree obtained under the previous educational systems (ex ante D.M. 509/99, whose legal course has at least a four-year term); b) Laurea specialistica/magistrale (D.M. 509/99 and Dm 270/2004); c) Academic title obtained abroad and eligible for access to the PhD program, previously recognized by academic authorities, even in the context of inter-university cooperation and mobility agreements. In the absence of such approval, the candidate must apply a request in the application form according to the Art. 3 of this call. 		
Available positions	9	With scholarship	Without scholarship
		9	0
Type of scholarships (Description awarding entity and research topic)	Regione Basilicata "Programma regionale Basilicata FESR FSE+ 2021-2027" Patti territoriali "D.D. MUR 5 febbraio 2025, n. 112"	8 scholarships on the following topics: 1) "Precision silviculture: assessment and implications of environmental and phylogenetic effects on the hydraulic structure of Mediterranean trees" 2) "New advanced technologies, based on the use of proximal/remote sensed data, to be integrated into a GIS environment, for the implementation of the concepts of Agroecology and "Climate Smart Forestry - CSF" both at the farm and landscape/territorial level; development of	

		<p>automated (or semi-automated) processes for the inclusion of remotely sensed data in GIS environments, to enable informed environmental, territorial, and landscape planning of the Basilicata land”</p> <p>3) “Development and validation of innovative digital solutions based on the integration of AI, IoT, UAVs and latest-generation mobile radio systems for advanced monitoring of agroecosystems, including those with high natural value (HNVF), and sustainable management of typical products from the Lucania region, through the implementation of Digital Twin models integrated with AI-based DSS”</p> <p>4) “Use of biostimulants to optimize the quality and production of tomato in closed-loop, soilless cultivation systems, for a greater efficiency and management of resources and land”</p> <p>5) “Study and design of efficient and innovative practices for managing nitrogen and N₂O emissions in agricultural systems, with a particular focus on improving NUE (Nitrogen Use Efficiency) and supporting the transition to more sustainable agroecosystems”</p> <p>6) “Integrated criteria for drafting a new regional geopedological map to define regional precision agriculture strategies and plan targeted interventions to limit soil erosion and promote increased productivity”</p> <p>7) “Implementing innovative plants and processing lines in local enterprises: develop strategies to reduce energy consumption, recover and exploit agri-food byproducts/waste”</p> <p>8) “Resilient local food systems for sustainable diets: strengthening urban-rural linkages through territorial pacts”</p> <p>A period in a company (6 months) and abroad (12 months) is mandatory.</p>	
	CREA	<p><u>1 scholarship</u></p> <p>Topic: “Development of new cropping systems combined with water harvesting techniques to manage drought in the Mediterranean area, using species resilient to salinity and water scarcity – WaterMellon – Project PRIM call 2024 S I”</p> <p>A period in the CREA (6 months) and abroad (6 months) is mandatory.</p>	
Positions reserved for graduates in foreign universities		With scholarship	Without scholarship
		0	0
Positions without scholarship	0		

Admission procedure	<p>The admission procedure is conducted through the:</p> <p>a) evaluation of qualifications</p> <p>evaluation, as part of the interview, of a research project, drawn up in Italian or English using the format set out in Annex C to the call for proposals, concerning the subject/type of grant for which you are competing</p> <p>b) video conference interview using google meet</p>	
Evaluation criteria	<p>a) evaluation of qualifications: up to a maximum of 25 points minimum score to access the interview 15 points</p> <p>b) interview: up to a maximum of 75 points the interview is passed for a score not less than 45 points</p> <p>Minimum total score: 60 out/100.</p>	
Assessable qualifications	<p>Graduation Thesis (The graduate candidate must attach the entire thesis; the candidate graduating a summary of the thesis project, in Italian or English, of max 16.000 characters)</p>	max 8 points
	<p>Degree mark (For candidates who have not yet obtained the degree, the weighted average of the marks obtained in all the exams of the degree program, taken on the date of submission of the application for admission, will be evaluated)</p>	max 12 points
	<p>Scientific publications (Articles in national and international scientific journals, proceedings of scientific conferences, books or book chapters)</p>	max 3 points
	<p>Other titles (University degrees or Master Specialization)</p>	max 2 point
Interview program	<p>The interview, which can be held in Italian or English, will focus on the discussion of the submitted research project and is aimed at ascertaining the candidate's scientific interests and aptitude for research.</p> <p>During the interview, the knowledge of the Italian language will be ascertained for foreign candidates.</p>	
Foreign language	English (knowledge of a foreign language will be assessed during the interview)	
Schedule of the admission tests	<p>Evaluation of qualifications: results will be available from <u>October 28, 2025</u> on the website http://portale.unibas.it/site/home/didattica/dottorati-di-ricerca.html</p> <p>Day of the video conference interview: <u>October 31, 2025 – 9:30</u></p>	