

<b>ANNEX 1/d</b>			
<b>PhD program: AGRICULTURAL, FOREST AND FOOD SCIENCES ASSOCIATED WITH SALERNO UNIVERSITY</b>			
<b>XXXVIII CYCLE – a.y. 2022-2023</b>			
<b>Department</b>	<b>School of Agriculture, Forest, Food and Environmental Sciences (SAFE) - Potenza</b>		
<b>Coordinator</b>	Prof. Giovanni Carlo DI RENZO e-mail: <a href="mailto:dottoratosafe@unibas.it">dottoratosafe@unibas.it</a>		
<b>Duration</b>	3 years		
<b>Web site</b>	<a href="https://sites.google.com/unibas.it/safe-phd/">https://sites.google.com/unibas.it/safe-phd/</a>		
<b>Curricula</b>	<ol style="list-style-type: none"> <li><b>1. Agricultural, Forest and Environmental Science</b></li> <li><b>2. Food Sciences and Engineering</b></li> </ol>		
<b>Aims and topics</b>	<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"> <li>a) develop and propose research projects to local, national or international institutions, as well as to private industries;</li> <li>b) identify the needs of research according to their scientific, social and economic impact;</li> <li>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);</li> <li>d) communicate and disseminate the results of research to scientific and non-scientific community (oral communications, publications on high-impact journals);</li> <li>e) transfer knowledge through teaching activities to academic institutions, industries, non-scientific communities;</li> <li>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).</li> </ol>		
<b>Admission requirements</b>	<ol style="list-style-type: none"> <li>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);</li> <li>b) Laurea specialistica/magistrale (D.M. 509/99 and Dm 270/2004);</li> <li>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.</li> </ol>		
<b>Available positions</b>	<b>9</b>	<b>With scholarship</b>	<b>Without scholarship</b>
		<b>7</b>	<b>2</b>
<b>Type of scholarships</b> (Description awarding entity and research topic)	<b>D.M. 351/2022 Basilicata University</b>	<b>M4C1-INV. 3.4</b>  <b><u>1 scholarship</u> "Digital and environmental transitions"</b>  Topic: "Prevention and mitigation of climate change impact on the territory; sustainable management and forest planning; environmental monitoring and desertification processes; forest ecology and silviculture; forest fire protection; protection and exploitation of forests and natural resources in protected areas; wood technology; wood industry and its derivatives; forest harvesting".	

		<p><b>M4C1-INV. 4.1</b></p> <p><b><u>2 scholarship</u> "PNRR-Research"</b></p> <p>on one of the following topics:</p> <ol style="list-style-type: none"> <li>1. Biology, morpho-physiology and pathology of crop and forest plants, farm and wild animals, insects. Integrated management of plant insects and diseases</li> <li>2. Methods for assessment of environmental sustainability of territories and/or agricultural productions and livestock systems and improvement of food safety</li> <li>3. Agri-food system sustainability analysis and economic, social and environmental impact evaluation of technological change in production processes; economic and environmental sustainability evaluation in the use of end-of-cycle outputs and models for innovation adoption for agriculture and rural development policies definition; ecosystem services models for enhancing agro-forestry chains in marginal areas; well-being evaluation models for socio-economic development strategies in rural areas and inequalities reduction in marginal areas</li> <li>4. Study and exploitation of microbial communities to improve quality and sustainability of food production; biorefineries or the sustainable production of ingredients for foods, chemical and pharmaceutical industries through the use of microorganisms; innovative processes for the production of nutraceutical and functional foods</li> <li>5. Plants, machinery and sustainable technologies for the agricultural, forestry and food sector. Development of innovative systems for the industrial plants and processes automation and control, for energy saving and food quality. Non-destructive analysis of vegetable and food materials in the field and during the processing steps. Innovative technological solutions and precision technologies in the field, in the farm and in the food-industry.</li> </ol> <p>A period in the company or research center and abroad is mandatory.</p>
	<p><b>D.M. 351/2022</b> <b>Salerno University</b></p>	<p><b>M4C1-INV. 4.1</b></p> <p><b><u>1 scholarship</u> "PNRR-Research"</b></p> <p>on one of the following topics:</p> <ol style="list-style-type: none"> <li>1. Sustainable agro-systems resilient to climate change: monitoring and management of entomes of agricultural interest; molecular-genetic approaches for studying the response of plants to stress and the development of resilient varieties to climate change</li> <li>2. Precision and Digital Agriculture. Methods of investigation with AUVs and biogeophysical tools for the definition of sustainable agricultural systems</li> </ol>

		<b>1 scholarship "PNRR-Research"</b>	
		Topic: "New models of circular economy and sustainability in agriculture through the enhancement and recycling of wastes, co-products and by-products from the primary and agro-industrial sector for the development of health products"	
		A period abroad is mandatory.	
	<b>Ateneo</b>	<b>2 scholarship</b>	
		<b>on a topic chosen from those already indicated for the D.M. 351/2022 Basilicata University.</b>	
		A period abroad is mandatory.	
<b>Positions reserved for graduates in foreign universities</b>		<b>With scholarship</b>	<b>Without scholarship</b>
		<b>0</b>	<b>0</b>
<b>Positions without scholarship</b>	<b>2 positions</b>		
<b>Admission procedure</b>	<p>The admission procedure is conducted through the:</p> <ul style="list-style-type: none"> <li><b>a) evaluation of qualifications</b></li> <li><b>b) evaluation, as part of the interview, of a research project</b>, drawn up in Italian and English using the format set out in <b>Annex C</b> to the call for proposals, concerning the subject/type of grant for which you are competing (Ministerial Decree 351/2022)</li> <li><b>c) video conference interview</b> using google meet</li> </ul>		
<b>Evaluation criteria</b>	<ul style="list-style-type: none"> <li><b>a) evaluation of qualifications:</b> up to a maximum of <b>25 points</b> minimum score to access the interview <b>15 points</b></li> <li><b>b) interview:</b> up to a maximum of <b>75 points</b> the interview is passed for a score not less than <b>45 points</b></li> </ul> <p><b>Minimum total score: 60 out/100.</b></p>		
<b>Assessable qualifications</b>	<b>Graduation Thesis</b> (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)	max <b>16</b> points	
	<b>Degree mark</b> (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)	max <b>5</b> points	
	<b>Scientific publications</b> (Articles in national and international scientific journals, proceedings of scientific conferences, books or book chapters)	max <b>3</b> points	
	<b>Other titles</b> (University degrees or Master Specialization)	max <b>1</b> point	

<b>Interview program</b>	<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>
<b>Foreign language</b>	<b>English</b> (knowledge of a foreign language will be assessed during the interview)
<b>Schedule of the admission tests</b>	<p><b>Evaluation of qualifications: results will be available from <u>September 8, 2022</u></b> on the website <a href="http://portale.unibas.it/site/home/didattica/dottorati-di-ricerca.html">http://portale.unibas.it/site/home/didattica/dottorati-di-ricerca.html</a></p> <p><b>Day of the video conference interview: <u>September 14 and 15, 2022</u></b></p>