

DOCTOR OF PHILOSOPHY (PHD)PROGRAMME IN**SCIENCE AND TECHNOLOGY FOR ENVIRONMENT AND HEALTH(STAS)**

Coordinator: Prof Francesco Maria Guadagno, guadagno@unisannio.it

Interested applicants are encouraged to contact the coordinator for information on research topics

FACULTY & ADMINISTRATION		Department: Scienze e Tecnologie[Science and Technology]	
DURATION		3 years (36 Months)	
PLACES AVAILABLE		PhD Programme Disciplinary Areas	
	With University Scholarship	No. 6 (six)	
	Without University Scholarship	No. 2 (two)	PhD Programme Disciplinary Areas
Programme Entry Requirements		Italian second level (Masterequivalent) graduate degree ("laurea magistrale") or foreign degree deemed equivalent to an Italian second-level degree in one of the scientific disciplines relevant to the PhD Programme disciplinary areas	
Selection-Admissions: Policies & Procedures	Evaluation of Qualifications and Oral Test		
	Evaluation of qualifications by reviewing submitted candidate Curriculum Vitae and relevant documentation	Up to 40 points	a) Final graduating marks and Dissertation Topic (up to 30 points); b) Other (up to 10 points) <ul style="list-style-type: none"> • Reference letter(s) by scholars external to the University; • Publications; • Other training and/or research activities undertaken • Foreign language certifications and other certifications
	Oral Test Interview	30 to 60 points	The interview (oral test) will last approximately 20 mins. Applicants are invited to prepare a presentation, of up to 15 mins, on the chosen research topic, including use of audiovisual media. Candidates' English language skills and proficiency will also be evaluated on this occasion. Candidates would need to achieve a minimum grade of 30/60 in the interview in order to pass the oral test. The interview may be conducted via

			"teleconference" for foreign applicants or for Italian applicants where circumstances so warrant, which should be justified on the basis of appropriate documentationsubmitted with the request.
Selection-Admission Tests: Schedules			
	Oral Test	Oral Test (interview) dates, times and venues will be announced by way of a notice published on the University website at: http://www.unisannio.it/it/studente/laureato/dottorato-di-ricerca No later than no later than 6 October 2017	
Selection-Admission Test Topics Candidates to select one	<ol style="list-style-type: none"> 1. Integrative Bioinformatics and Systems Biology for large scale genomic data analysis and processing. 2. Analysis of the role of foetal exposure to endocrine disruptors and development of reproductive endocrine disorders in adults through a Systems Biology approach. 3. Environmental pollutants andneurodegeneration. 4. Biochemical and structural characterisation of proteins involved in humandisease. 5. Identification and analysis of genes, miRNAs and long noncoding RNA involved in immunogenic response to stress. 6. Iodothyronines and energymetabolism. 7. Iodothyronines and mitochondrial functions. 8. Iodothyronines and dyslipidemia. 9. Uncoupling proteins: energy metabolism and mitochondrial functions. 10. Qualitative-quantitative evaluation of food resources with particular reference to the characterisation of the functional and nutraceutical components and study of the beneficial effects thereof on in vivo and in vitro experimental pathways. 11. Qualitative-quantitativecharacterisation of products of animal originin relation to production processes, animal welfare and biodiversity. 12. Bio-compatible and biodegradable materials for biomedical applications. 13. Design, expression and biophysical characterisation of protein sweeteners. 14. Organic and inorganic pollutants and their effects on the soil microbial community. 15. Bioremediation and phytoremediation of contaminated air, water and soil. 16. Methods of qualitative-quantitative control and monitoring of surface and ground water resources. 17. Recent morphological changes of river beds and the implications of soil loss. 18. Monitoring of landslide events with integrated technologies. 19. Seismological studies aimed at the mitigation of seismic risk. 20. Mineralogy applied to the environment and health. 21. Studies of calcareous nannoplankton associationsaimed at the reconstruction of the main stages of emplacement of the Apennines and the climatic evolution of the circum-Mediterranean region, useful for the development of risk mitigation strategies, protection and conservation of natural resources and sustainable development of the territory. 22. Marine Geology: seismic-stratigraphic analysis through VHR Chirp profiles and physical stratigraphic and sedimentological analysis of core samples for the recent geological reconstruction of continental margins. 23. Three-dimensional modelling and tectonic evolution of continental margins of the central Mediterranean. 24. Stratigraphic, sedimentological and kinematic evolution of the south-Apennines 		

	<p>within the context of the orogenic system of the central and western Mediterranean region.</p>
Address for submitting application and supporting documentation	<p>Ufficio "Segreteria e Protocollo" [Secretariat and Protocol Office], Università degli Studi del Sannio [University of Sannio], Complesso Immobiliare denominato "Palazzo San Domenico", Piazza Guerrazzi, no 1 – 82100 Benevento.</p>