



Annex A

PhD Program	Science, Technology and Biotechnology for Sustainability
Ciclo	XXXVII
Duration	3 years: 1 st January 2022 – 31 st December 2024
Coordinato	Prof. Andrea Vannini
Department	Innovation in Biological, Agrofood and Forest systems
Number of positions	No. 1 additional PhD scholarship on the Innovation topic and no. 3 additional PhD scholarships on Green topics
Action IV. 4 Additional PhD scholarship on the Innovation topic PON R&I 2014-2020	Curriculum: Forest Ecology and environmental technologies
	Topic: <i>High performance technologies based development and optimization of neural networks for big data analysis in key agri-food, forest and ecology areas</i> Scientific Coordinator: Prof. Nico Sanna (ssd CHIM/03) The doctoral program includes 6/8 months in the company and 6 months abroad to be carried out within the first 2 years of the course
Action IV.5 Additional PhD scholarships on Green topics PON R&I 2014-2020	Curriculum: Food products
	Topic: <i>Development of strategies to mitigate the Climate Change effects on livestock sector using machine learning and artificial intelligence methods</i> Scientific Coordinator: Prof. Giovanni Chillemi (ssd AGR/17) The doctoral program includes 6 months in the company and 6 months abroad to be carried out within the first 2 years of the course
	Topic: <i>Ozone technology for sanitization and product quality in the dairy chain</i> Scientific Coordinator: Prof. Rinaldo Botondi (ssd AGR/15) The doctoral program includes 6/8 months in the company
	Topic: <i>Application of "green technologies" in the fruit and vegetable industry chain</i> Scientific Coordinator: Prof. Rinaldo Botondi (ssd AGR/15) The doctoral program includes 12 months in the company



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<p>Admission requirements</p>	<p>Application to the public competition is open to all, regardless of age and citizenship, who, by the date this call expires, possess one of the qualifications listed below:</p> <ul style="list-style-type: none"> - an Italian “laurea specialistica” degree, obtained according to the Ministerial Decree n. 509/1999; - an Italian “laurea magistrale” degree, obtained according to the Ministerial Decree n. 270/2004; - an Italian equivalent university degree obtained under the Italian regulations previously in force, the time-span of which being no less than 5 years; - a foreign university degree equivalent to those mentioned above. <p>Admission is also open to university students who will finish their MS degree by October 31, 2021. In such cases admission will be “conditional”. Failure to obtain the degree by that date will result in forfeiture of admission to the doctoral course.</p>
<p>Methods of evaluation of candidates (Maximum score 80/80)</p>	<p>Evaluation of academic qualification and oral examination Assessment of the English Language Knowledge. Language for the examination: Italian or English The evaluation of qualifications is preliminary to the oral exam. The score obtained by candidates after the evaluation of their qualifications will be added to the score of the oral examination. The results will be published on the Tuscia University web site (www.unitus.it) at the section of Didattica>Offerta post lauream>Dottorati di Ricerca Together with the application form, candidates should submit a research project, within the themes of Ph.D., up to a maximum of 5 pages, which must be written in Italian or English. The research project will be discussed during the oral exam. The project must be relevant to the chosen topic and bring a high added value, in terms of scientific, social and economic repercussions. In evaluating the applications and with particular reference to the project proposal submitted by the candidates, the Commission will also take into account the criteria indicated in art. 3, paragraph 2 of the Ministerial Decree 1061 of 08.10.2021.</p>
<p>Evaluation of Academic qualification (Maximum score: 20 out of 80)</p>	<p>Master’s thesis: max 2 points University career (exams taken with the relative grades and final grade): max 5 points Scientific publications relating to the areas of Ph.D.: max 4 points Research and/or study activities in foreign institutions: max 2 points Participation in research projects: max 1 point Professional experiences and other qualifications that each candidate considers useful: max 2 points Research project submitted by the candidate: max 4 points</p>



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E INNOVAZIONE
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Evaluation of the oral exam (Maximum score: 60 out of 80)	Oral exam: maximum score 60 out of 80 points The minimum score for a positive oral exam will be at least 40 out of 80 points.
Topics of the oral examination	The oral test, aimed at ascertaining the candidate aptitude for scientific research, will focus on the discussion of issues related to the research project. The oral exam will include verifying the knowledge of English based on the reading and translation of paragraphs of a scientific text.
Oral examination timetable	The timetable for the exams will be published in the section Didattica>Offerta post lauream>Dottorati di Ricerca of the University's website (www.unitus.it) within October 31, 2021.
Contact to Information	Head of the curriculum <i>Food Products</i> Prof. Riccardo Massantini e-mail massanti@unitus.it Head of the curriculum <i>Forest Ecology and Environmental Technologies</i> Prof. Dario Papale e-mail darpap@unitus.it