



Finanziato dall'Unione europea NextGenerationEU



Italiadomani PIANO NAZIONALE DI RIPRESA E RESILIENZA

ANNEX C

PhD COURSE IN BIOTECHNOLOGY AND SMART PRACTICES FOR A SUSTAINABLE MANAGEMENT OF NATURAL REOURCES, FOOD AND AGRICULTURE - XXXIX cycle academic year 2023/2024

Coordinator: Prof.ssa Maria Luisa Amodio (PO) - SSD: AGR/09 - University of Foggia		
Scientific and disciplinary sectors	AGR/01; AGR/02; AGR/03; AGR/04; AGR/07; AGR/09; AGR/10; AGR/11; AGR/12; AGR/15; AGR/16; AGR/19; VET/04; VET/06; CHIM/01; CHIM/06; ING-IND/08; ING- IND/35; FIS/01; BIO/04; BIO/09	
Administrative headquarters: DEPARTMENT OF AGRICULTURAL SCIENCE, FOOD, NATURAL RESOURCES AND ENGINEERING		
Length:	3 anni	
Curriculum:	1. SUSTAINABLE AGRICULTURE, NATURAL RESOURCES AND BIODIVERSITY:Sustainable agriculture, management of natural resources and biodiversity. Throughout this curriculum, skills for the sustainable management of natural resources and agriculture will be developed, with particular regard to precision agriculture and smart farming, decision support systems, reduction of inputs in agriculture, logistics and management of inputs and production outputs (Internet of things), quality of production, environmental protection, animal, plant and microbial biodiversity, bio-industry for the exploitation of waste and non-food products to end the cycle, biorefinery, biogenetics.	
	2. EMERGING TECHNOLOGIES FOR ENSURING FOOD QUALITY AND SAFETY: Skills for the precise management of processes, logistics and management of processing inputs and outputs (Internet of things) will be developed as well as quality, traceability and safety of food products, biotechnologies and innovative technologies with low environmental impact, in order to increase the added value of the products maximizing efficiency and reducing waste; assessment of the sustainability of products and processes, strategies to increase the consumers and actors' awareness in the supply chain on environmental issues; marketing of food products obtained in a sustainable way.	
TOTAL NUMB	ER OF POSITIONS AVAILABLE: n. 8	

N. 8 POSITIONS WITH SCHOLARSHIP of which:

n. 1 position through scholarship granted by Univesrity of Foggia

n. 4 positions through scholarship granted by D.M. 118/2023 PNRR 4.1 PNRR Research

n. 1 position through scholarship granted by D.M. 118/2023 PNRR 4.1 Public Administration

n. 2 positions through scholarship granted by D.M. 117/2023 PNRR cofunded by Enterprise

COURSE DESCRIPTION

PROGRAM, OBJECTIVES AND CONSISTENCY WITH THE PNRRpersuant to the DD.MM. nos. 117/2023 and 118/2023

https://www.unifg.it/en/node/2972

SCHOLARSHIPS

n. 1 SCHOLARSHIP granted by

DM 117/2023 PNRR co-funded by Pastificio Attilio Mastromauro - Granoro S.r.I

Topic: Development and characterization of new durum wheat genotypes for the production of high quality Italian pasta.

n. 1 SCHOLARSHIPS granted by DM 117/2023 PNRR co-funded by Bel Agri S.r.I

Topic: Development of biorefinery processes for the conversion of agro-industrial digestate into economically valuable and sustainable bioproducts for agriculture.

ADMISSION PREREQUISITES

Master's Degree in:

LM-3 Landscape architecture

LM-6 Biology

LM-7 Agricultural biotechnologies

LM-8 Industrial biotechnology

LM-9 Medical, veterinary and pharmaceutical biotechnologies

LM-17 Physics

LM-18 Computer science

LM-21 Biomedical engineering

LM-22 Chemical engineering

LM-23 Civil engineering

LM-24 Construction engineering

LM-25 Automation engineering

LM-26 Safety engineering

LM-27 Telecommunications engineering

LM-28 Electrical engineering

LM-29 Electronic engineering

LM-30 Energy and nuclear engineering

LM-31 Industrial engineering

LM-32 Computer engineering

LM-33 Mechanical engineering

LM-35 Environment and territory engineering

LM-41 Medicine and surgery

LM-42 Veterinary medicine LM-48 Urban and environmental development planning LM-52 International relations LM-53 Science and engineering of materials LM-54 Chemical Sciences LM-56 Economic Sciences LM-59 Sciences of public communication, business and advertising LM-60 Natural sciences LM-61 Human Nutrition Sciences LM-69 Agricultural sciences and technologies LM-70 Food science and technology LM-71 Sciences and technologies of industrial chemistry LM-73 Forestry and environmental sciences and technologies LM-74 Geological sciences and technologies LM-75 Sciences and technologies for the environment and the territory LM-77 Economics and business sciences LM-79 Geophysical Sciences LM-82 Statistical Sciences LM-83 Statistical, actuarial and financial sciences LM-86 Zootechnical sciences and animal technologies LM / GASTR Economic and social sciences of gastronomy LM Sc. Mat. Materials sciences LM-53. Materials engineering 6 / S (Master of biology) 7 / S (Master of agricultural biotechnology) 8 / S (Master of industrial biotechnology) 9 / S (Master of medical, veterinary and pharmaceutical biotechnologies) 19 / S (Master of finance) 20 / S (Master of physics) 23 / S (Master of computer science) 26 / S (Master of biomedical engineering) 27 / S (Master of chemical engineering) 29 / S (Master of automation engineering) 30 / S (Master of telecommunications engineering) 31 / S (Master of electrical engineering) 34 / S (Master of industrial engineering) 35 / S (Master of computer engineering) 36 / S (Master of mechanical engineering) 38 / S (Master of environment and territory engineering) 46 / S (Master of medicine and surgery) 47 / S (Master of veterinary medicine) 50 / S (Master of mathematical-physical modeling for engineering) 54 / S (Master of urban and environmental development planning) 59 / S (Master of advertising and corporate communication) 61 / S (Master of materials science and engineering) 62 / S (Master of chemical sciences) 64 / S (Master of economics) 68 / S (Master of natural sciences) 69 / S (Master of human nutrition sciences) 77 / S (Master of agricultural sciences and technologies)

79 / S (Mastory	
	of agri-food sciences and technologies)
	of agri-zootechnical sciences and technologies)
81 / S (Master o	of sciences and technologies of industrial chemistry)
82 / S (Master (of sciences and technologies for the environment and the territory)
83 / S (Master of economic sciences for the environment and culture)	
84 / S (Master o	of economics-business sciences)
· · ·	of geophysical sciences)
	of geological sciences)
	of demographic and social statistics)
91 / S (Master o	of economic, financial and actuarial statistics)
	ADMISSION PROCEDURES
The selection will be based on the a	assessment of qualifications, research project and oral exam.
The assessment will take place pur	suant to art. no. 6 and 7 of the Call.
Foreign candidates can choose to t	
Qualifications titles should be lis	sted as follows:
Degree and final grade:	admission degree and final grade
With regards to this qualification, if ca	ndidates hold a foreign degree the examination board has the right to
amend or exclude this qualification in f	favour of the following ones
Degrees and academic	
<u>qualifications:</u>	Additional degrees over the admission criteria
	PhD
	Postgraduate and Master's degree
	Postgraduate specialization courses
	Specialization diplomas
Research activity:	
	at qualified Italian and foreign institutes relevant to the contents
	covered throughout the
	covered throughout the doctoral course applied for. Participation in European projects.
Please indicate the type of position, Please provide project, duration and	covered throughout the doctoral course applied for. Participation in European projects. , duration and institute
	covered throughout the doctoral course applied for. Participation in European projects. , duration and institute of role details
Please provide project, duration and	covered throughout the doctoral course applied for. Participation in European projects. , duration and institute of role details
Please provide project, duration and	covered throughout the doctoral course applied for. Participation in European projects. <i>a, duration and institute</i> <i>ad role details</i> Journal publications on SCOPUS
Please provide project, duration and	covered throughout the doctoral course applied for. Participation in European projects. <i>a, duration and institute</i> <i>ad role details</i> Journal publications on SCOPUS Patents
Please provide project, duration and	covered throughout the doctoral course applied for. Participation in European projects. <i>duration and institute</i> <i>d role details</i> hts: Journal publications on SCOPUS Patents Publications not present on SCOPUS
Please provide project, duration and	covered throughout the doctoral course applied for. Participation in European projects. d, duration and institute ad role details hts: Journal publications on SCOPUS Patents Publications not present on SCOPUS Book Chapter
Please provide project, duration and	covered throughout the doctoral course applied for. Participation in European projects. d duration and institute of role details hts: Journal publications on SCOPUS Patents Publications not present on SCOPUS Book Chapter Conference proceedings

Oral exam

During the oral exam, the research project presented by the candidate at the time of the application will also be discussed and the knowledge of the English language will be ascertained. It will be up to the candidate to take the exam in English.

ADMISSION TEST CALENDAR AND VENUE

The interviews will take place from 11 to 22 September 2023 - the date will be published on the website

https://www.unifg.it/en/studiare/corsi-post-laurea/ciclo-xxxix/biotechnology-and-smart-practicessustainable-management-natural-resources-food-and-agriculture

Other useful information

For all useful information, please consult the University website at

https://www.unifg.it/en/studiare/corsi-post-laurea/ciclo-xxxix/biotechnology-and-smart-practicessustainable-management-natural-resources-food-and-agriculture

Useful contacts

Educational/scientific contact	Prof.ssa Maria Luisa Amodio
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