

Scheda di dottorato 37 ° ciclo – Bando PON “Ricerca e Innovazione” 2014 – 2020



UNIONE EUROPEA
Fondo Sociale Europeo



PROGRAMME'S NAME	HEALTH, SAFETY AND GREEN SYSTEMS
DURATION	3 years
PROGRAMME START DATE	01/01/2022
LANGUAGE	English
COORDINATOR	Patrizia Tassinari (patrizia.tassinari@unibo.it)
CURRICULA	N/A
RESEARCH TOPICS	Detailed list at the bottom of the present document
PhD POSITIONS	4
ADMISSION PROCEDURE	Qualifications and research proposal evaluation

Available Positions and Scholarships

Actions	Position n.	Financial Support	Research Topic
Action IV.5 – “PhDs on green topics”	1	PhD Scholarship	Ensuring that active mobility is a healthy option: brain and body health benefits and risks of active commuting in Emilia Romagna, IT
	2	PhD Scholarship	Study of vegetation to be used in urban regeneration to increase resilience
	3	PhD Scholarship	Territorial resilience and green regeneration in climate change and post-pandemic scenarios
	4	PhD Scholarship	Innovation in the production of mycorrhizal truffle plants

Required and Supporting Documents to be attached to the application

(only documents in Italian, English, French, German and Spanish shall be considered as valid and be assessed by the Admission Board)

Only qualifications obtained during the last 5 calendar years shall be taken into consideration, except for the University Degree. **The Admission Board will assess the relevance of the supporting documents to the criteria listed in Art. 3 of the Ministerial Decree 1061/2021 (see also Art. 4 of the Call for applications).**

REQUIRED DOCUMENTS	
Identity document	Valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae	No specific CV format is required
Degrees	Documents attesting the awarding of the first and second cycle degrees (see Art. 3 of the Call for Applications)
Research proposal	Multi-annual research proposal, with special emphasis on the activities to be completed during the first-year course. The proposal must meet the following requirements: <ul style="list-style-type: none"> - it cannot exceed 20,000 characters, including spaces and formulas, if present. This figure does not include: the title, the outline, references and images (such as graphs, diagrams, tables etc. - where present);

	- it must be written following the template provided for Action IV.5 “PhDs on Green topics”. The template is attached to the Call for Application and available for download on the University website.
SUPPORTING DOCUMENTS	
Publications	Lists of publications (i.e. monographs, articles on scientific journals), minor publications (conference papers, etc.), abstracts and posters presented during national and international conferences, etc.

Evaluation criteria

The **results of the admission exams** will be available from 03/11/2021 on [Studenti Online](#) (select “summary of the requests in progress” > “see detail” and open the .pdf file at the bottom of the page). **No personal written communication will be sent to applicants concerning the examinations results.**

Scores will be expressed in points out of 100, as follows.

Minimum score for eligibility: 60 points, Maximum score: 100 points

Qualifications evaluation	University degree final mark.	10 points max.: - 10 points for 110 and Lode - 8 points for 109 to 110 included - 6 points for 105 to 108 included - 4 points for 101 to 104 included - 3 points for 95 to 100 included
	Publications and other documents	10 points max (only qualifications related to the topics of the Doctorate will be evaluated with the following maximum scores): - 3 points for each publication in ISI / Scopus and class A journals; - up to a maximum of 1 point for participation at conference proceedings, conferences posters or other publications
Research proposal evaluation	Scientific value and innovative nature of the proposal	20 points max.
	Ability of the project to foster the synergy between research and the productive world	20 points max.
	Identification of parameters allowing the measurability of expected results	20 points max.
	Adherence of the proposal to the objectives of the Action PON R&I 2014-21	20 points max.

Research Topics

n. 1 - GREEN

Thematic area SNSI 2014-20	Thematic areas: Health, nutrition, quality of life Digital agenda, <i>Smart Communities</i> , smart mobility systems
PNR 2021-2027*	Research field: 5.1 Health Area of application: 5.1.1 General issues Section 7. Health promotion, disease prevention and access to the National Health Service. Objectives 2021-2027: b) give effective responses to the growing burden of chronic diseases [...] c) promote extensive prevention, safety and public health programs Research field: 3. Security for social systems. Objectives in line with SDG 11) sustainable cities and communities: to make cities and human settlements inclusive, safe, resilient and sustainable, with an impact on "redevelopment of the built environment, combining safety and aesthetics" Research field: 5.5 Climate, energy, sustainable mobility. Area of application: 5.5.1 Sustainable mobility Section 3. Mobility and transport services, in particular "Micro-mobility, assisted mobility and active mobility". Climate change, mitigation and adaptation: mitigation actions in the areas of transport and the built environment.
Project title	Ensuring that active mobility is a healthy option: brain and body health benefits and risks of active commuting in Emilia Romagna, IT
Project description	Cleaner, healthier forms of mobility are a key target in recent Green EU action plans, but in polluted cities active commuting brings both health benefits and risks. The aim of the research project is to investigate the health impact of different modes of daily mobility, investigating indicators of both bodily health and other important but understudied factors: brain/cognitive function, and quality of life. This knowledge will aid targeted interventions aimed at promoting active mobility.
Mandatory traineeship	6 months
Company type	Company in the field of digital technologies for health
Stay abroad	6 months

n. 2 - GREEN

Thematic area SNSI 2014-20	Thematic areas: Health, nutrition, quality of life Smart and sustainable industry, energy and environment
PNR 2021-2027*	Research fields: 5.1 Health 5.5 Climate, energy, sustainable mobility 5.6 Food products, bioeconomy, natural resources, agriculture, environment
Project title	Study of vegetation to be used in urban regeneration to increase resilience
Project description	The goal of this project is to address soundly urban regeneration through public green, creating the conditions for the social inclusion of vulnerable groups in the pandemic context. The interactions between the specific plants and urban fabric will be evaluated for the increase of resilience for the purposes of adaptation to climate change. The study impacts on the promotion of sustainable development, theme 11 of the UN SDGs, on green recovery, using this element as the engine of adaptation actions and in terms of new planning and nurseries production, and on the social impact on populations.
Mandatory traineeship	6 months
Company type	Company in the field of green production and design
Stay abroad	6 months at Albert-Ludwigs-Universität Freiburg

n. 3 - GREEN

Thematic area SNSI 2014-20	Thematic areas: Health, nutrition, quality of life Smart and sustainable industry, energy and environment
PNR 2021-2027*	Research fields: 5.5 Climate, energy, sustainable mobility 5.6 Food products, bioeconomy, natural resources, agriculture, environment
Project title	Territorial resilience and green regeneration in climate change and post-pandemic scenarios
Project description	The project aims to develop and test innovative and smart solutions, also with the use of geospatial technologies and analytical / design models, to promote green regeneration processes of the territory that consider the role of ecosystem services in climate change scenarios. Case studies will be analyzed with data acquisition, digital simulations and participatory approaches.
Mandatory traineeship	6 months
Company type	Company in the field of technologies for sustainable cultivation
Stay abroad	NO

n. 4 - GREEN

Thematic area SNSI 2014-20	Thematic areas: Health, nutrition, quality of life Smart and sustainable industry, energy and environment
PNR 2021-2027*	Research field: 5.6 Food products, bioeconomy, natural resources, agriculture, environment
Project title	Innovation in the production of mycorrhizal truffle plants
Project description	The project aims to apply new truffle cultivation technologies and to genetically select the most suitable fungal strains for their biotechnological exploitation. To safeguard the biodiversity of truffles, a germplasm bank will be established with strains from different Italian origins. In the proposed project, in addition to an in-depth study of the genetic diversity of truffles, the microbial biodiversity associated with them will be analyzed, in relation to the host plant and the soil.
Mandatory traineeship	6 months
Company type	Company in the field of truffle cultivation
Stay abroad	NO

*The translation of PNR 2021-2027 references has been carried out by the PhD Unit.