

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



UNIONE EUROPEA
Fondo Sociale Europeo



PROGRAMME'S NAME	CULTURAL AND ENVIRONMENTAL HERITAGE
DURATION	3 years
PROGRAMME START DATE	01/01/2022
LANGUAGE	Italian, English
COORDINATOR	Prof. Stefano Benazzi (stefano.benazzi@unibo.it)
CURRICULA	1. Cultural and environmental heritage: memory, protection, rights 2. Sciences and Technologies for Cultural Heritage
RESEARCH TOPICS	Detailed list at the bottom of the present document
PhD POSITIONS	7
ADMISSION PROCEDURE	Qualifications and research proposal evaluation

Available Positions and Scholarships

Actions	Pos. n.	Financial Support	Research topic
Action IV.5 – “PhDs on green topics”	1	PhD Scholarship	Development of green materials for the cleaning of cultural heritage
	2	PhD Scholarship	Multidisciplinary study of the maritime cultural heritage and environmental changes in one coastal area of the Adriatic Sea aimed at its enhancement as a contribution to sustainable development and Green recovery
	3	PhD Scholarship	From Odysseus to Darwin: discovering human cultural diversity through musical experiences in travelogues
	4	PhD Scholarship	Postindustrial Landscape/Environment, Energy Transition and Climate Change: Modelling Metabolism against Morphology in the Ravenna area
	5	PhD Scholarship	Protection of the environment, landscape and cultural heritage in the green transition routes: the case of the geological storage of carbon dioxide.
Action IV.4 – “PhDs on innovation topics”	6	PhD Scholarship	New methods for research and dissemination on Cultural Heritage through Computer Graphics and audiovisual communication
	7	PhD Scholarship	Towards a competitive and sustainable European music ecosystem

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)

AFORM Settore Dottorato di ricerca

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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 templates provided for Action IV.4 “PhDs on innovation topics” or for Action IV.5 “PhDs on green topics”. The templates are 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. Graduands shall be evaluated according to the Weighted Average Mark (WAM)	10 points max
	Publications	10 points max
Research proposal evaluation		80 points max

Research Topics

n. 1 - GREEN

Thematic area SNSI 2014-20	Technologies and applications for the conservation, management and enhancement of cultural, artistic and landscape heritage
PNR 2021-2027*	5.2.1 Cultural heritage, articulation n. 2: Unlocking the full potential of heritage science
Project title	Development of green materials for the cleaning of cultural heritage
Project description	The aim of the project is to develop green cleaning systems for works of art using polymers obtained from renewable sources, through green synthesis or products from recyclable materials, to produce gels to be used together with green solvents or advanced fabrics to convey in a controlled manner the cleaning agent on the work of art. The developed products will be tested on specimens prepared in the laboratory and the performance of the cleaning treatment will be verified through the application of diagnostic protocols.
Mandatory traineeship	6 months
Company type	Production of advanced fabrics
Stay abroad	NO

n. 2 - GREEN

Thematic area SNSI 2014-20	Tourism, Cultural Heritage and Creativity Industry
PNR 2021-2027*	5.2.1 Cultural Heritage; articulation n. 3: Development of technologies to support diffuse and lesser known heritage; articulation n. 5: Participatory Approach to Cultural Heritage
Project title	Multidisciplinary study of the maritime cultural heritage and environmental changes in one coastal area of the Adriatic Sea aimed at its enhancement as a contribution to sustainable development and Green recovery
Project description	Study of the maritime cultural heritage of one coastal area of the Adriatic Sea, which the candidate will identify in Italy or on the eastern shore. Multidisciplinary approach: archaeology - also maritime, sciences for diagnostics, archaeogenetics, history, cultural anthropology, literature. Study of past events on climate change and human action conducive to proper environmental policy. Production of resources for the development of sustainable tourism for the Green recovery.
Mandatory traineeship	6 months
Company type	Tourism enterprises or cultural and creative enterprises, depending on the project selected
Stay abroad	6 months

n. 3 - GREEN

Thematic area SNSI 2014-20	Tourism, Cultural Heritage and Creativity Industry
PNR 2021-2027*	5.2.1 Cultural Heritage, Articulation n. 3: Development of technologies to support diffuse and lesser-known heritage, Articulation n. 5: Participatory Approach to Smart Heritage
Project title	From Odysseus to Darwin: discovering human cultural diversity through musical experiences in travelogues
Project description	The inclusive biodiversity of human cultural diversity is at the heart of the multidisciplinary perspectives of historical musicology. The objective of the project is to reconstruct, through texts and images of travelers, a historical map, articulated by geographic areas and figures, of the musical traces of the peoples who have handed down to us, mostly orally, the endogenous musical culture. The research and its diffusion for a wide audience will be conducted in synergy with a specialized publishing house.

Mandatory traineeship	9 months
Company type	Publishing house
Stay abroad	6 months

n. 4 - GREEN

Thematic area SNSI 2014-20	Technologies and applications for the conservation, management and enhancement of cultural, artistic and landscape heritage
PNR 2021-2027*	5.2.2 Historical, literary and artistic disciplines
Project title	Postindustrial Landscape/Environment, Energy Transition and Climate Change: Modelling Metabolism against Morphology in the Ravenna area
Project description	The line of research compares technoscientific and sociopolitical narratives of environment and landscape in the Ravenna area in the perspective of an ecological transition. Innovative methods and digital tools elaborate a comparative analysis of data drawn from humanities and STS, historiography, anthropology, 'interspecies' ethnography, industrial and landscape ecology. The analysis provides the basis for the definition of an agenda of recommendations related to land governance and natural and cultural resources management. The research aims at developing a replicable method.
Mandatory traineeship	6 months
Company type	New technologies, energy, sustainable development; multi-utilities and environmental sustainability
Stay abroad	6 months

n. 5 - GREEN

Thematic area SNSI 2014-20	Smart and sustainable industry, energy and environment
PNR 2021-2027*	5.5.3 Industrial Energetics
Project title	Protection of the environment, landscape and cultural heritage in the green transition routes: the case of the geological storage of carbon dioxide
Project description	The research aims at reconstructing and examining, from a legal perspective, the complex legal issues that affect the processes related to green transition, by focusing in particular on the effects that result, or may in the future result, in the current legal framework on environmental protection, landscape and cultural heritage; to this end, as a case study to be analyzed with priority in order to pursue the aforementioned objectives, the research will focus on the capture and the storage of carbon dioxide (CO ₂), as a complex discipline in which the attempt to combine the integrated use of energy asset with the measures for the prevention of pollution raises significant theoretical and applicative issues in relation to the legal framework on environmental protection, landscape and cultural heritage.
Mandatory traineeship	6 months
Company type	Environmental and regulatory compliance company
Stay abroad	6 months

n. 6 - INNOVATION

Thematic area SNSI 2014-20	Technologies and applications for the conservation, management and enhancement of cultural, artistic and landscape heritage
PNR 2021-2027*	5.2.1 Cultural heritage, articulation n. 2: Unlocking the full potential of heritage science
Project title	New methods for research and dissemination on Cultural Heritage through Computer Graphics and audiovisual communication
Project description	Audiovisual and digital communication, for its availability and technical potential, is a necessary tool for researchers in the field of cultural heritage for the publication and dissemination of results but also for the testing of innovative methodologies in the

	analysis and interpretation of texts, documents and objects. The PhD project aims at training a specialist able to realize effective and scientifically based heritage storytelling.
Mandatory traineeship	6 months
Company type	New technologies, cultural heritage, web communication
Stay abroad	6 months

n. 7 - INNOVATION

Thematic area SNSI 2014-20	<i>National Thematic Area: Tourism, Cultural Heritage and Creativity Industry Regional Specialization Area: Technologies for Cultural Heritage Technological development trajectory with national priority: Systems and applications for tourism, the fruition of culture and the attractiveness of Made in Italy</i>
PNR 2021-2027*	5.2.4 Creativity, design and Made in Italy, articulation n. 6: Cultural and creative enterprises for local development and global competitiveness
Project title	Towards a competitive and sustainable European music ecosystem
Project description	Music participates in the construction and transmission of the cultural identity of communities. The music industry is therefore at the center of the concept of cultural sustainability, understood as the protection and promotion of the diversity of cultural expressions (UNESCO Convention, 2005). For this reason, the identification and enhancement of musical traditions are particularly important objectives of EU cultural policies (e.g. Music Moves Europe - MME). The objective of this project is to identify and co-create, together with the actors of the music ecosystem, innovative solutions that allow to exploit the digital transformation to strengthen the cultural sustainability of music and its identity value, such as the design of digital enterprises capable of linking music production and businesses and organizations in European regions to international innovation and the music consumption market. To this end, the project will also develop new methodologies for measuring the economic and cultural impact of the music ecosystem.
Mandatory traineeship	6 months
Company type	Ateco 72.20: Research and experimental development in the social sciences and humanities; Ateco 90: Creative, artistic and entertainment activities
Stay abroad	6 months

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