

PhD Programme Table - 39th cycle
Call for Applications for the admission to the PhD programmes (39th cycle), A.Y. 2023/2024 for scholarships funded by Next Generation EU – NRRP ex M.D. 117/2023 and M.D. 118/2023 and from other sources



Section “Available Positions and Scholarships” integrated on 09/06/2023

Section “Admission Exams” modified on 26/06/2023

PROGRAMME’S NAME	NANOSCIENCE FOR MEDICINE AND THE ENVIRONMENT
DURATION	3 years
PROGRAMME START DATE	01/11/2023 (DD/MM/YYYY)
LANGUAGES	English
COORDINATOR	Prof. Dario Braga (dario.braga@unibo.it)
PhD POSITIONS	10
ADMISSION PROCEDURE	Qualifications evaluation Oral examination

Available Positions and Scholarships

Pos. n.	Financial Support	Description	Positions linked to research topics
1	PhD Scholarship	Funded by the Department of Chemistry "Giacomo Ciamician" partly with funds made available by the project GR-2021-12372877 “Theory enhancing” - “Nanotechnologybased Platforms for the improvEment of therapeutic strateGies in soft tissue sArcoma and melanoma leSiOns (PEGASO) - UO2- €32559 – ref. Prof. Damiano Genovese - CUP J53C21000370001- BANDO RICERCA FINALIZZATA 2021	Development and Investigation of Nanostructured Hydrogels and Nanoparticles for the Treatment of Soft Tissue Sarcoma and Melanoma Lesions
2	PhD Scholarship	Funded by the Department of Chemistry "Giacomo Ciamician" partly with funds made available by the project PRIN 2020Y2CZJ2_001- title “Nature Inspired Crystal Engineering (NICE)” € 32559 - Code CUP J43C21000060001 – ref. Prof. Dario Braga	Crystal Engineering of Molecular Materials for Enzymatic Activity Inhibition and Antimicrobial Applications
3	PhD Scholarship	Totally funded by the University of Bologna general budget under the "Dipartimenti di Eccellenza" initiative	Synthesis and characterization of novel nitroxide based molecular sensors
4	PhD Scholarship	Funded by the Department of Physics and Astronomy with funds made available by the project GOLIAT con GA n. 1010572628 Ref. Prof. Daniel Remondini	Electrophysiological and genomic measurements of the effects of 5G electromagnetic fields on human neurons
5	PhD Scholarship PNRR ex M.D. 118/2023 - PNRR Research	Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) Mission 4, Component 1,	Development of analyticaal methodologies based on biosensors and nanomaterials for

		Investment 4.1 (M.D. 118/2023) – PNRR Research	human health and the environment
6	PhD Scholarship PNRR ex M.D. 118/2023 - PNRR Research	Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) Mission 4, Component 1, Investment 4.1 (M.D. 118/2023) – PNRR Research	Development of ionic materials for electric energy storage
7	PhD Scholarship PNRR ex M.D. 118/2023 - PNRR Research	Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) Mission 4, Component 1, Investment 4.1 (M.D. 118/2023) – PNRR Research	Vibrational spectroscopy for the investigation of biomaterials and living cells
8	PhD Scholarship	Funded by Istituto per lo Studio dei Materiali Nanostrutturati del CNR	Realization and demonstration of miniaturized smart optical biosensors for biondiagnostic applications
9	PhD Scholarship	Funded by Istituto per lo Studio dei Materiali Nanostrutturati del CNR	Fabrication and characterization of organic/hybrid optoelectronic and photonic components for integrated systems in ICT and sensing
10	PhD Scholarship	Funded by Istituto per la Sintesi Organica e Fotoreattività del CNR (CNR-ISOF)	Synthesis and characterization of oxidized thiophene based molecules, and study of intracellular assembly

All PhD positions winners shall fulfill the learning and research obligations decided by the Academic Board and the obligations foreseen in the relevant regulations, funding schemes and eventual agreements, and in the Call for Applications. Moreover, applicants awarded with PhD scholarships funded by Next Generation EU shall fulfill specific obligations foreseen in the relevant funding scheme, in the relevant regulations and in the Call for Applications.

Admission Exams

	DATE AND TIME	RESULTS
Qualifications evaluation	Applicants' participation is not required	Available from 05/07/2023**
Oral examination	Date: starting from 12/07/2023 – 9.00 a.m. CEST* Place: In presence Sala Riunioni, Department of Chemistry "Giacomo Ciamician" Via Selmi 2, Bologna. Remotely, using Microsoft Teams	Available from 17/07/2023**

* In case that the oral examination cannot be completed in one day due to the large number of applicants, the oral examination detailed schedule shall be made available on the webpage [Studenti Online](#) together with the results of the qualifications evaluation. **During the oral examination, applicants may express their interest in one or more positions linked to specific research topics.**

** The **results of the admission exams** will be available on the webpage [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.**

Required and Supporting Documents to be attached to the application

All the documents listed below **shall be drawn up in English or in Italian**. In case of documents originally issued in any other language (e.g. identity document, qualifications), an official translation is required.

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 PhD Programme.

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, the exams taken and the marks obtained (see Art. 3 of the Call for Applications)
SUPPORTING DOCUMENTS	
Thesis abstract	Abstract of the second cycle degree thesis . Graduands applicants may submit the draft of the thesis. Abstracts cannot exceed 5,000 characters, including spaces and formula possibly used. The above figure does not include: the title of the thesis, the outline, references, and images such as graphs, diagrams, tables etc.
Personal Statement	The statement shall include the reasons prompting the applicant to attend the PhD Programme and those relevant experiences and research interests , that make the applicant suitable for the specific PhD Programme (3,000 characters maximum, including spaces).
Publications	- Full text publications (i.e. monographs, articles on scientific journals) - max n. 2 - Full text abstracts and posters presented during national and international conferences, etc. - max n. 2
Other documents	- Study periods completed by applicants outside their countries of origin (e.g. Erasmus programme or other similar mobility programmes) - Other qualifications attesting the suitability of the applicants (scholarships, prizes, etc.)

Evaluation criteria*

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

1. Qualifications evaluation

Minimum score for admission to the oral examination: 30 points, Maximum score: 50 points

Second cycle degree (Master's) final mark. Graduands shall be evaluated according to the Weighted Average Mark (WAM)	10 points max
Consistency of the thesis abstract with the PhD programme main topics	12 points max
Personal statement	20 points max
Publications	2 points max
Other evaluable documents	6 points max

2. Oral examination

Minimum score for eligibility: 30 points, Maximum score 50 points

English language proficiency	5 points max
General knowledge of the PhD programme's main research topics and of the research topics linked to the available PhD positions	45 points max

Oral examination aims to assess the suitability of the applicant for scientific research as well as the general knowledge of the PhD programme's main research topics and of the research topics linked to the available PhD positions.

The oral examination is carried out in English.

* Possible further evaluation criteria will be available on the [University website](#), selecting the relevant PhD Programme > "More information", at the bottom of the page in the section "Notices".