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

PROGRAMME'S NAME	ENGINEERING AND INFORMATION TECHNOLOGY FOR STRUCTURAL AND ENVIRONMENTAL MONITORING AND RISK MANAGEMENT – EIT4SEMM
DURATION	3 years
PROGRAMME START DATE	01/11/2023 (DD/MM/YYYY)
LANGUAGES	English
COORDINATOR	Prof. Luca De Marchi (l.demarchi@unibo.it)
PhD POSITIONS	9
ADMISSION PROCEDURE	Qualifications and research proposal evaluation Oral examination

Available Positions and Scholarships

Pos. n.	Financial Support	Description	Positions linked to research topics
1	*PhD Scholarship*	Totally funded by the University of Bologna general budget	
2	*PhD Scholarship*	Totally funded by the University of Bologna general budget	
3	*PhD Scholarship*	Funded by the University of Bologna general budget and by the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi"	
4	*PhD Scholarship PNRR ex M.D. 118/2023 - Public Administration*	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) - Public Administration	Drones for monitoring the environmental status
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, Investment 4.1 (M.D. 118/2023) – PNRR Research	Data acquisition, management and processing for iot based monitoring systems
6	*PhD Scholarship PNRR ex M.D. 118/2023 - Public Administration*	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) - Public Administration	Monitoring, analysis and Interpretation of landslides in Italy: a multi-disciplinary approach between Mathematics and Environmental Engineering
7	*PhD Scholarship*	Funded by the EU - NextGenerationEU with funds made available by the National Recovery and	Metodologies e technologies for safety and management of natural systems, structures,

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	PNRR ex M.D. 118/2023 - PNRR Research	Resilience Plan (NRRP) Mission 4, Component 1, Investment 4.1 (M.D. 118/2023) – PNRR Research	infrastructures and production systems
8	PhD Scholarship	Funded by the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" partly with funds made available by the project JU_KDT – Edge AI (ref. Prof. Andrea Acquaviva) - GA 101097300 CUP 101097300	Monitoring systems based on Edge AI technologies
9	Research Grant	Provided the Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" with funds made available by the project JU-KDT - TRISTAN (ref. Prof. Davide Rossi) CUP J53C22004780005 - GA 101095947. The research grant will have a duration of 12 months, renewable up to 36 months, and gross percipient amount of €19,367	Real-TimeHigh-Bandwidth Peripherals for Micro Aerial Vehicles SoCs

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 **30/06/2023****
Oral examination	**Date**: starting from **17/07/2023 – 9.00 a.m. CEST*** **Place**: In presence, Laboratorio ARCES, Viale Pepoli 3/2, Bologna. Remotely, using Microsoft Teams	Available from **20/07/2023****

* 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 and research proposal 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)
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: - **it cannot exceed 10,000 characters**, including spaces and formula possibly used. This figure does not include: the title of proposal, the outline, references and images (such as graphs, diagrams, tables, etc. - if present).

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SUPPORTING DOCUMENTS	
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 (3000 characters maximum, including spaces)
Publications	- Full text publications (i.e. monographs, articles on scientific journals) - Full text minor publications (conference papers, etc.) - Full text abstracts and posters presented during national and international conferences, etc. **Max n. 3**
Other documents	- Postgraduate vocational training programmes relevant to the PhD Programme main research topics - Research activity of any kind - whether basic, applied, translational, etc. - carried out in any capacity, including when covered by research grants, and as a staff member of research projects - Work activity - Curricular or non-curricular professional internships - Documents attesting the applicant's foreign languages proficiency - Periods of study abroad, 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 and research proposal evaluation

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

Qualifications evaluation	First (Bachelor's) and second cycle (Master's) degree final marks. Graduands shall be evaluated according to the Weighted Average Mark (WAM)	20 points max
	Publications	3 points max
	Other evaluable documents	2 points max
Research proposal evaluation	Scientific value and ground-breaking nature of the proposal	12 points max
	Structure of the proposal	8 points max
	Proposal feasibility	5 points max

2. Oral examination

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

English language proficiency	5 points max
Research proposal presentation	25 points max
General knowledge of the PhD programme's main research topics and of the research topics linked to the available PhD positions	20 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.
During the oral examination, the applicant's English proficiency shall be assessed.
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".

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