PhD Programme Table - 39th cycle
Call for Applications for further PhD positions
funded by Next Generation EU - NRRP ex M.D. 117/2023 and 118/2023
and from other sources - PhD Programmes (39th cycle)
A.Y. 2023/2024

Section "Available Positions and Scholarships" integrated on 02/08/2023

PROGRAMME'S NAME	BIOMEDICAL AND NEUROMOTOR SCIENCES
DURATION	3 years
PROGRAMME START DATE	01/11/2023 (DD/MM/YYYY)
LANGUAGES	Italian, English
COORDINATOR	Prof. Matilde Yung Follo (matilde.follo@unibo.it)
PhD POSITIONS	8
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 PNRR ex M.D. 117/2023*	Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) Mission 4, Component 2, Investment 3.3 (M.D. 117/2023) and by IRCCS Istituto Romagnolo per lo Studio dei Tumori "Dino Amadori" IRST	Generation of cell therapies for solid tumors through CRISPR/Cas9- based genetic engineering approaches
2	*PhD Scholarship PNRR ex M.D. 117/2023*	Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) Mission 4, Component 2, Investment 3.3 (M.D. 117/2023) and by IRCCS Istituto Romagnolo per lo Studio dei Tumori "Dino Amadori" IRST	Generation and testing of new antibodies for targeting malignant pleural mesothelioma using an innovative phage display technology
3	*PhD Scholarship PNRR ex M.D. 117/2023*	Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) Mission 4, Component 2, Investment 3.3 (M.D. 117/2023) and by IRCCS Istituto delle Scienze Neurologiche dell'AUSL di Bologna	Prediction and prevention of cerebral edema after ischemic stroke: a longitudinal observational study
4	*PhD Scholarship PNRR ex M.D. 117/2023*	Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) Mission 4, Component 2, Investment 3.3 (M.D. 117/2023) and by IRCCS Istituto delle Scienze Neurologiche dell'AUSL di Bologna	New microsampling strategies for therapeutic monitoring of antiseizure medications in clinical care and research settings
5	*PhD Scholarship PNRR ex M.D. 117/2023*	Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) Mission 4, Component 2, Investment 3.3 (M.D. 117/2023) and by IRCCS	Inside cataplexy: towards new perspectives on the emotional features of narcolepsy type 1

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		Istituto delle Scienze Neurologiche dell'AUSL di Bologna	
6	*PhD Scholarship*	Funded by the Department of Biomedical and Neuromotor Sciences in partnership with Eviden an Atos business	"Digital twin" of the animal model for the prediction of behavioral state occurrence
7	*PhD Scholarship*	Funded by the Department of Biomedical and Neuromotor Sciences in partnership with Eviden an Atos business	Natural language processing for healthy life expectancy estimation
8	*PhD Scholarship*	Funded by the Department of Biomedical and Neuromotor Sciences	A randomized controlled clinical study to evaluate the correction of ridge contour deficiencies.

The number of positions and scholarships may be incremented in case additional funding becomes available, notwithstanding the terms of the application process as detailed in Art. 3 of the Call for Applications. Any amendment, update or integration of the Programme Table will be published, even after the Call for Applications has expired. Any further PhD positions shall be integrated in the PhD Programme Table within ten days before the oral examination.

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 and research proposal evaluation	Applicants' participation is not required	Available from **04/09/2023****
Oral examination	**Date**: starting from **08/09/2023** – 9.30 a.m. CEST* **Place**: In presence Anatomia Umana, Department of Biomedical and Neuromotor Sciences, Via Irnerio 48, Bologna. Remotely, using Microsoft Teams, on the basis of a justified request	Available from **11/09/2023****

* 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 (2019-2023)** 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:

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	- it must **mention on the cover page the PhD programme's main research topic or the research topic linked to the available PhD positions** the applicant is interested to and the proposal is about; - **it cannot exceed 20,000 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); - **it must include**: the state of the art; description of the proposal; expected results; articulation of the proposal and implementation times; references.
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.
Reference letter/s	**No more than 2 reference letters** signed by Italian or international academics and professionals in the research field, which do not form part of the Admission Board, attesting the suitability of the applicant and his/her interest in the scientific research. Letters shall be uploaded following the procedure detailed in the Call for Applications (Art. 3.2)
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.
Other documents	- Postgraduate vocational training programmes relevant to the PhD Programme main research topics - Specialisation programme thesis abstract (max 5000 characters) - 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 - Curricular or non-curricular professional internships - 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 degree (Master's) final mark. Graduands shall be evaluated according to the Weighted Average Mark (WAM)	**5 points** max distributed as follows: - 110/110 e Lode (with honour): 5 points - 110/110: 4 points - 109/110-102/110: 3 points - 101/110-90/110: 2 points - 89/110-66/110: 1 point For graduands Weighted Average Mark (WAM) - **5 points** max distributed as follows: - 30/30 e Lode: 5 points - 30/30: 4 points - 29/30-27/30: 3 points - 26/30-24/30: 2 points - 23/30-18/30: 1 point N.B. The evaluation of the degree grade/weighted average of the exams will be made with reference to the entire path of the studies and will be calculated as the arithmetic mean, mathematically rounded to the whole

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		number, including the votes of MS and any BSc degrees. In case of foreign degrees, we will refer to the ECTS scale, using the most recent tables of conversion. The score for each qualification will be assigned as follows: A: 5 points, B: 4 points, C: 3 points, D: 2 points, E: 1 point.
	Publications	**10 points max**, distributed as follows: - 1 point for each publication in extenso published in journals with IF (belonging to the categories "Research Papers" and "Review" on PubMed) - 0.5 points for each book chapter of scientific text (not educational or informative) - 0.1 points for each Abstract presented at National or International Congresses
	Thesis abstract (consistency with the main topics of the PhD programme and with the submitted research proposal)	3 points max
	Scholarships, research grants, vocational programmes or advanced training	1 point max
	Professional training, specialty thesis or other qualifications (e.g. study period abroad)	1 point max
Research proposal evaluation	Scientific value and ground-breaking nature of the proposal	10 points max
	Structure of the proposal	10 points max
	Proposal feasibility	10 points max

2. Oral examination

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

English language proficiency	10 points max
Research proposal presentation	20 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.
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".