

## PHD PROGRAMME TABLE 37TH CYCLE

Section "Available Positions and Scholarships" integrated on 13/05/2021

Section "Available Positions and Scholarships" integrated on 20/05/2021

PROGRAMME'S NAME	<b>BIOMEDICAL AND NEUROMOTOR SCIENCES</b>
DURATION	3 years
PROGRAMME START DATE	01/11/2021
LANGUAGES	Italian, English
MANDATORY STAY ABROAD	3 months
COORDINATOR	Prof. Pietro Cortelli ( <a href="mailto:pietro.cortelli@unibo.it">pietro.cortelli@unibo.it</a> )
CURRICULA	N/A
RESEARCH TOPICS	<ul style="list-style-type: none"> <li>- Biomedical and Molecular Sciences</li> <li>- Clinical and Experimental Physiopathology</li> <li>- Basic and Clinical Neurosciences</li> <li>- Morphology, Differentiation and Stem Cells</li> <li>- Personalized Medicine in Biomedical and Neuromotor Sciences</li> </ul>
PHD POSITIONS	21
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	Totally funded by the University of Bologna general budget	
4	PhD Scholarship	Totally funded by the University of Bologna general budget	
5	PhD Scholarship	Totally funded by the University of Bologna general budget	
6	PhD Scholarship	Totally funded by the University of Bologna general budget	
7	PhD Scholarship	Totally funded by the University of Bologna general budget	
8	PhD Scholarship	Totally funded by the University of Bologna general budget	
9	PhD Scholarship	Totally funded by the University of Bologna general budget	
10	PhD Scholarship	Co-funded by the University of Bologna general budget and by the Department Biomedical and Neuromotor Sciences	Development of brain functional connectivity approaches
11	PhD Scholarship	Co-funded by the University of Bologna general budget and by the Department Biomedical and Neuromotor Sciences	Complex knee instability and anterior cruciate revisions: how to improve the clinical outcome of the reconstructions
12	PhD Scholarship	Funded by the Department Biomedical and Neuromotor Sciences	Control of arm movements in dynamic contexts
13	PhD Scholarship	Funded by MUR under the "Departments of Excellence" initiative	Personalized Medicine in Biomedical and Neuromotor Sciences
14	PhD Scholarship	Funded by MUR under the "Departments of Excellence" initiative	Personalized Medicine in Biomedical and Neuromotor Sciences

15	PhD Scholarship	Funded by MUR under the "Departments of Excellence" initiative	Personalized Medicine in Biomedical and Neuromotor Sciences
16	PhD Scholarship	Co-funded by MUR under the "Departments of Excellence" initiative and by the Department Biomedical and Neuromotor Sciences under the "Departments of Excellence" initiative	Personalized Medicine in Biomedical and Neuromotor Sciences
17	Industrial PhD	Position reserved for employees of Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori "Dino Amadori" - IRST S.r.l. IRCCS	
18	PhD Scholarship	Funded by IRCCS Istituto delle Scienze Neurologiche dell'Azienda USL di Bologna	Antibodies against surface antigens in patients with autoimmune neurological diseases: study of pathogenicity and search for surrogate markers of diagnosis and prognosis (Research line n.2)
19	PhD Scholarship	Funded by IRCCS Istituto delle Scienze Neurologiche dell'Azienda USL di Bologna	Advanced imaging study in cerebrovascular pathology for the personalization of therapy: from the capillary microcirculation to the vessel wall (Research line n.3)
20	PhD Scholarship	Funded by IRCCS Istituto delle Scienze Neurologiche dell'Azienda USL di Bologna	Correlation between Local Field Potentials of the target and quantitative analysis of the EEG of sleep and wakefulness in patients with movement disorders (Research line no. 4)
21	PhD Scholarship	Funded by Istituto di Scienze e Tecnologie della Cognizione (ISTC-CNR)	Decoding of motor intentions in human and non-human primates starting from neural, ocular, and kinematic signals

## Admission Exams

	DATE AND TIME	RESULTS
<b>Qualifications and research proposal evaluation</b>	Applicants' participation is not required	Available from <b>18/06/2021**</b>
<b>Oral examination</b>	<b>Date:</b> starting from <b>06/07/2021 – 9 a.m. CEST*</b> <b>Place:</b> Remotely, using Microsoft Teams	Available from <b>12/07/2021**</b>

\* 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

*(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 PhD Programme.

REQUIRED DOCUMENTS	
<b>Identity document</b>	Valid identity document with photo (i.e. identity card, passport)

<b>Curriculum Vitae</b>	No specific CV format is required
<b>Degrees</b>	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)
<b>SUPPORTING DOCUMENTS</b>	
<b>Research proposal</b>	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"> <li>- it must mention <b>on the first the research topic</b> of the PhD Programme associated to the research proposal;</li> <li>- it <b>cannot exceed 20.000 characters</b>, 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);</li> <li>- it must include: state of the art; project's description; timeline of the proposed research activities; references.</li> </ul>
<b>Thesis abstract</b>	Abstract of the <b>second cycle degree thesis</b> . Graduands may submit the draft of their thesis (abstracts cannot exceed 5.000 characters, including spaces and formulas, if present. The above figure does not include: title, outline, images such as graphs, diagrams, tables etc. if present)
<b>Reference Letter/s</b>	<b>No more than 2 reference letters</b> signed by <b>Italian and/or International academics and professionals</b> in the research field, which do not form part of the Admission Board, attesting the suitability of the applicant and his/her interest for the scientific research. Letters shall be uploaded following the procedure on <a href="#">Studenti Online</a> , detailed in the Call for Applications (Art. 3.2).
<b>Publications</b>	List of publications (i.e. monographs, articles on scientific journals, volume chapters) and minor publications (conference papers, etc.)
<b>Other documents</b>	<ul style="list-style-type: none"> <li>- University Master Courses (Master Universitari di I e II livello), Postgraduate vocational training programmes and/or specialisation programmes relevant to the PhD Programme</li> <li>- Specialisation thesis abstract (5000 characters max)</li> <li>- Research activity - whether basic, applied, translational, etc. - carried out in any capacity, including when covered by research grants, and as a staff member of research units</li> <li>- Professional or training internships</li> <li>- Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes)</li> <li>- Other qualifications attesting the suitability of the applicants (scholarships, prizes, etc)</li> </ul>

## 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

<b>Qualifications evaluation</b>	University degree final mark. Graduands shall be evaluated according to the Weighted Average Mark (WAM)	5 points max
	Publications	10 points max
	Second cycle thesis	3 points max
	Other documents attesting the applicant's training and skills	2 points max
<b>Research proposal evaluation</b>	Scientific value and innovative nature of the proposal	10 points max
	Description and 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 proficiency	10 points max
Research proposal presentation	20 points max
General knowledge of issues encompassed by the PhD Programme	20 points max

Oral examination includes the presentation of the research proposal and aims to assess the suitability of the applicant for scientific research as well as the general knowledge of issues encompassed by the PhD Programme (see the list on the present document). **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”.

## Final Ranking List and Enrollment

Considering the expressions of interest for **topic-specific positions** (see Art. 9 of the Call for Applications) the Admission Board will establish if the applicants can be considered eligible for the allocation of the positions linked to specific research topics, taking into account their skills, experience and aptitude.

After the publication of the results of the oral examination, the **final ranking list** will be available on the [University website](#), selecting the relevant PhD Programme > “More information”, section “Notices” at the bottom of the page.

Following the publication of the final ranking list, successful applicants shall **enroll** on [Studenti Online](#) by the deadline indicated on the [University website](#), selecting the relevant PhD Programme > “More information”.

If a successful applicant withdraws from a position, the following applicant in the ranking list, who is also eligible for the specific position, will be contacted. During the replacement procedure, the new terms of enrollment shall be communicated via e-mail to the chosen applicant.