

PhD in COGNITIVE BRAIN SCIENCES

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Scientific fields	M-PSI/02; M-PSI/01; M-PSI/04; M-PSI/03; MED-26; L-LIN/01
Brief description	<p>The PhD Program in Cognitive Brain Sciences is a fulltime 3-year joint program with the University of Pavia.</p> <p>The PhD Program is aimed at providing an advanced training in neuroscientific research, focusing on the understanding of the neural processes underlying cognitive functions and behaviour during the lifespan, both in normal conditions and in neurological and psychiatric diseases, and it is strongly oriented towards an interdisciplinary approach. The aim is to train a new generation of cognitive neuroscientists capable of synthesising concepts and methods from different disciplines in an integrated approach to the study of the mind/brain relationship that not only increases competitiveness within traditional disciplinary departments, but also promotes the progress in advanced and new research, and the transfer of knowledge to Health and Education fields.</p>
Language	English
Duration	3 years
Number of positions available	<p>6 positions, of which:</p> <ul style="list-style-type: none"> - n. 2 positions with scholarship funded by IUSS on the following topic: <i>“Cognitive, clinical and experimental neuroscience”</i>. Projects focus on understanding the nature, organisation and neural processes underlying different aspects of cognitive functioning through behavioural, neurophysiological, neurostimulation and/or neuroimaging studies in healthy, neurodegenerative or psychiatric populations. Characteristic topics include memory, language, executive functions, decision-making, social cognition and nutritional neuroscience. - n. 1 position with scholarship co-funded by National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: <i>“Application of high-definition direct current transcranial stimulation (HD-tDCS) to neurorehabilitation”</i>. This research project aims at the development, and validation in neuro-psychiatric disorders, of innovative neuromodulation rehabilitation treatments aimed at increasing the intensity/focus of the effect of direct current electrical stimulation (tDCS) using customized high-definition protocols (HD-tDCS). Company involved: ICS Maugeri; - n. 1 position with scholarship co-funded by National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: <i>“Cognitive profile and body representation in eating and feeding disorders”</i>. This research project aims to investigate the characteristics of cognitive profiles and alterations in body representation in patients diagnosed with eating and feeding disorders, and in populations at risk of development these disorders. Company involved: IPSI - Istituto Psicologico Italiano; - n. 1 position covered by University of Pavia with scholarship co-funded under the National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: <i>“Behavioural, anatomical and functional study of cognitive and emotional processes in patients with drug-</i>

	<p><i>resistant epilepsy</i>". This research project aims to develop innovative protocols for the behavioural, anatomical and functional study of cognitive and emotional processes in patients with drug-resistant epilepsy using advanced technologies. Company involved: Ospedale Niguarda</p> <p>- n. 1 position covered by University of Pavia with scholarship co-funded under National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: "<i>Application of new technologies in neurorehabilitation of patients with cognitive impairment: an integrated neurobiological approach</i>". This project aims to investigate how new technologies (digital devices, telerehabilitation, virtual reality, artificial intelligence) can be integrated into the rehabilitation of cognitive difficulties resulting from diseases that directly or indirectly affect the central nervous system. Company involved: IRCCS Ospedale San Camillo</p>
<p>Submission deadline for the online application</p>	<p>01/07/2024, 13:00 (CEST)</p>
<p>Mandatory documentation* to be attached to the online application</p> <p><i>*failure to upload the documentation referred to in (a) and (b) will result in exclusion from the competition procedure</i></p>	<p>a) a PDF copy of a valid identity document; b) self-certification of the Master Degree Certificate (Italian or UE educational qualification), or Copy of the MSc Degree Certificate (NON-EU educational qualification); c) self-certification of the Bachelor Degree Certificate (Italian or UE educational qualification), or Copy of the Bachelor Degree Certificate (NON-EU educational qualification); d) diploma Supplement/Transcript/or similar document of Master Degree Certificate; e) diploma Supplement/transcript/or similar document of Bachelor Degree Certificate; f) Self-certification of the grades of the Bachelor's Degree and of the Master's Degree (through the application procedure). For students holding a degree obtained abroad, the minimum grade for sufficiency and the maximum grade of the home University are also required g) research project (see guidelines on the IUSS website). <u>The candidate who intends to compete for more than one scholarship is required to submit a project for each of the scholarship he/she is applying for. Up to a maximum of three preferences may be expressed (NB: the topic of the scholarship must be included in the header of the project).</u></p>
<p>Qualification assessment</p>	<p>a) diploma Supplement/Transcript/or similar document of Master Degree Certificate; b) Self-certification of the arithmetic mean (if any), calculated by the candidate, of the grades obtained in the exams taken during the Bachelor's Degree and the Master's Degree (through the application procedure). For students holding a degree obtained abroad, the minimum grade for sufficiency and the maximum grade of the home University are also required. c)research project (see guidelines on the IUSS website); d) academic and professional CV; e) publications, if any; f) referees (maximum n. 3), if any, of whom the candidate has to indicate the institutional e-mail address (through the application procedure); g) motivational letter, if any.</p>

<p>Interview and evaluation</p>	<p>The selection will be performed through the assessment of the qualifications listed in the section “Qualification assessment”, points from a) to f) included, with a maximum of 50 out of points and through an interview, with a maximum of 50 out of points. The Selection Board will therefore award a final score from 1 to 100.</p>
	<p>1. The Selection Board will assess the submitted scientific qualifications awarding a score up to 50 points. The candidates obtaining a score of at least 36/50 in the assessment phase, will be accepted to the interview.</p> <p>2. The interview may also be carried out online, as long as the candidate can be identified. The interview will entail a discussion about the scientific background and skills of the candidate as well as technical/scientific questions, with the aim of ascertaining the candidate’s background, vocation and aptitude for research. Candidates obtaining a score below 36/50 in the interview will not be eligible to the ranking list.</p> <p><u>During the interview, the selection board will verify that the candidate has the necessary fundamental knowledge and skills to attend the doctoral course and evaluate the eligibility for the research topics of the scholarships selected, also based on the research project/s submitted.</u></p> <p><u>At this stage, subject to the candidate’s authorization, the Selection Board will assess eligibility for scholarships other than their preferred choice(s). If the assessment is positive, eligibility for the alternative scholarship will be taken into consideration only in case of unassigned scholarships after the final ranking.</u></p> <p>3. IUSS Pavia will notify the scholarship holders of their admission to the programme using the e-mail address provided in the application.</p>
<p>Test schedule</p>	<p>The results about the evaluation process will be published on the IUSS website http://www.iusspavia.it The interviews will be carried out at the IUSS Marelli building or online, via Zoom. The date is 22/07/2024 at 09:00 CEST.</p>
<p>Information</p>	<p>U.O. PhD Courses: e-mail: postlaurea@iusspavia.it</p>



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