

Research Studentships for students of a course that does not award an academic degree

Applications are open for one Research Studentship, within the framework of project/R&D institution 1801P.01287.1.01 NOISyS, financed by 2022.02283.PTDC, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Biomedical Systems and Biosignals

Admission Requirements: Master Degree in Biomedical Engineering, Electrical/Computer Engineering, Computer Sciences, Neurosciences, or related areas.

a) master degree and be enrolled at a course that does not award an academic degree and it is integrated in the educational project of a higher education institution, performed in association or cooperation with one or several R&D units;

b) not to exceed with this contract, including the possible renovations, an accumulated period of two years in this type of studentship, continuously or with interruptions.

c) Given the nature of the project, which is aimed at developing a rehabilitation system that utilizes cutting-edge technologies such as Brain-Computer Interfaces (BCI), Virtual Reality (VR), and Artificial Intelligence (AI), the candidate must have advanced knowledge of programming and prior knowledge in analysis and processing of signals and brain images. Preferred factors: previous experience in multimodal neuroimaging techniques such as Electroencephalography (EEG) and functional Magnetic Resonance Imaging (fMRI) alongside advanced machine-learning methods and good writing skills in English.

Workplan: The scholarship holder will acquire and analyse electroencephalographic and functional magnetic resonance brain images from healthy participants, and develop machine learning methods for brain-computer interfacing applications for stroke rehabilitation.

Legislation and Regulations: Statute of Scientific Research Fellow, approved by Law nr. 40/2004, of August 18, as worded by Decree-Law nr. 123/2019, of August 28; FCT Regulation for Research Studentships and Fellowships, available on <https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf> and <https://dre.pt/application/file/a/127230968> .

Workplace: The work will be developed at Institute for Systems and Robotics of Instituto Superior Técnico, under the scientific supervision of Professor Athanasios Vourvopoulos.

Duration: The research fellowship will have the duration of 12 months. It's expected to begin in June 2023. Not renewed.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (<http://www.fct.pt/apoios/bolsas/valores>), the amount of the monthly maintenance allowance is € 1199,64, being the payment method Wire Transfer.

Selection methods: The selection methods will be the following: 1) relevance of academic degree and respective grade (25%); 2) experience in functional magnetic resonance imaging (25%); 3) motivation letter (25%); e 4) global evaluation by the jury (25%). The jury will interview up to a maximum of three candidates with the highest marks. In order to make a more objective assessment of some of these criteria, the interview* will count 50% towards each of the above criteria.

Composition of the selection Jury: Professors Athanasios Vourvopoulos, Patrícia Figueiredo e Agostinho Rosa.

Announcement/ notification of the results: The final evaluation results will be communicated to all applicants by email.

Deadlines and procedures of complaint and appeal. A complaint may be lodged from the final decision within 15 working days, or an appeal to the Executive Board of IST-ID within 30 working days, both counted from the respective notification

Application deadline and formalization: The call is open from April 19 until May 4, 2023.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (<https://ist-id.pt/concursos/bolsas/>); ii) *Curriculum Vitae*; iii) academic degree certificate, where applicable; iv) proof of enrollment at a course that does not award an academic degree; v) motivation letter; vi) (for holders of Bachelor or Master degrees who are enrolled at a course that does not award an academic degree) declaration on honour that the applicant does not exceed with this contract an accumulated period of two years in this type of studentship, continuously or with interruptions.

Applications must be submitted to the email: athanasios.vourvopoulos@tecnico.ulisboa.pt