(BL94/2025_IST-ID)

1 Research Studentships for PhD students

Applications are open for 1 Research Studentship for PhD Students, within the framework of project Responsible.AI (1801P.01320.1.01 Contrato nº 12 - IST-ID) financed by national funds PRR (Plano de Recuperação e Resiliência), through IAPMEI - Agência para a Competitividade e Inovação, under the following conditions:

Scientific Area: Biomedical Systems and Biosignals

Admission Requirements:*To be enrolled at a PhD, at the starting date of the grant contract.*

Workplan: The fellow will develop interpretability methods of machine learning models estimated for diagnosis based on medical imaging data. The work will initially be focused on the prediction of fMRI signals from EEG data, and will then be extended to other applications.

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; IST-ID Regulation of Scientific Research Fellowships, available on https://ist-id.pt/recursos-humanos/bolseiros/#documentos-relacionados .

Workplace: The work will be developed at Institute for Systems and Robotics (ISR-LIsboa) of Instituto Superior Técnico, under the scientific supervision of Professor Patrícia Figueiredo, in collaboration with Professor Pulkit Grover at CMU.

Duration: The research fellowship will have the duration of 7 months. It is expected to begin in June 2025 and may eventually be renewed up to the maximum of 48 months, including the duration of the initial contract.

Monthly maintenance allowance: the amount of the monthly maintenance allowance is €1309,64, being the payment method an option of the Fellow by Wire Transfer.

Selection methods: The selection methods will be the following: 1) relevance of academic degree and respective grade (25%); 2) training in information theory and machine learning, and experience in both conventional and deep learning methods for classification and regression problems involving EEG and fMRI data (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 Patricia Figueiredo, Athanasios Vourvopoulos, and João Sanches.

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, or an appeal to the Executive Board of IST-ID, within 15 working days counted from the respective notification.

Application deadline and formalization: The call is open from March 31 until April 11, 2025.

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) *Official* academic degree certificate;
    iv) Proof of enrollment in a doctoral program;
    v) motivation letter;
    Applications must be submitted at https://welcome.isr.tecnico.ulisboa.pt/opportunities/