

(BL105/2026-IST-ID)

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

Applications are open for 2 Research Studentship(s), within the framework of project 1801P.01697.1.01 MULTISCOPE, financed by EU under the following conditions:

Scientific Area: Artificial Intelligence and Signal Processing

Admission Requirements:

a) to hold a BSc and be enrolled at a course that does not award an academic degree and it is integrated in the educational project of a portuguese 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.

Workplan: The first scholarship aims to develop an image-to-image translation framework that learns mappings between whole slide image features (biopsy data) and Raman spectroscopy data. The framework should explore whether GANs, a VAEs or another generative model to generate WSIs from hyperspectral data, using a public dataset for the effect. This framework will contribute to the identification of the relevant regions in these images, as well as to a better understand of how hyperspectral data captures cancer signatures.

The goal of the second scholarship is to learn signatures of hyperspectral data that discriminate between healthy and cancer cells. The approach used to achieve this goal will be based on prototype learning, which will simultaneously predict cell type and select relevant and discriminative bands within the spectrum, while relying on small training datasets.

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/documentos/recursos-humanos/bolseiros/#1690453819726-6707f7f2-ce04>

Workplace: These works will be developed at VisLab and SIPg of Institute for Systems and Robotics, under the scientific supervision of Profs. Carlos Santiago and Catarina Barata.

Duration: The research fellowship will have the duration of 3 months and is not renewable.

Monthly maintenance allowance:, the amount of the monthly maintenance allowance is € 1090.98, being the payment method by Wire Transfer.

Selection methods: The selection methods will be the following: Curriculum evaluation (60%), motivation letter (40%). The candidates may be invited for an interview, for additional discrimination between levels of expertise.

Composition of the selection Jury: Prof. Catarina Barata, Prof. Carlos Santiago, and Prof. Plinio Moreno

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

Deadlines and procedures of complaint and appeal. After notification of the provisional list of evaluation results, candidates have a period of 10 working days to, if they wish, make a statement at a preliminary hearing of interested parties, in accordance with Articles 121 et seq. of the Code of Administrative Procedure. The final decision will be

made after analyzing the statements presented at the preliminary hearing of interested parties. The final decision may be appealed to the competition jury or to the President of IST-ID within 15 working days of notification

Application deadline and formalization: The call is open from June 12 until June 25, 2026.

It is mandatory to formalize applications with the submission of the following documents:

- i) B1 Form – Fellowship application (<https://ist-id.pt/recursos-humanos/bolseiros/#documentos-relacionados>);
- ii) *Curriculum Vitae*;
- iii) academic degree certificate, where applicable, to be presented at time of contract signature;
- iv) proof of enrollment at a course that does not award an academic degree, to be presented at time of contract signature;
- v) motivation letter;
- vi) 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 <https://isr.tecnico.ulisboa.pt/scholarships/>