

(BL87/2025)

### Scientific Initiation Studentships

Applications are open for one (1) Scientific Initiation Studentships, within the framework of project R2UTechnologies, internal reference 1018P.06284, financed by Plano de Recuperação e Resiliência (PRR-IAPMEI), under the following conditions:

**Scientific Area:** Mechanical Engineering, Civil Engineering or similar areas

**Admission Requirements:** *To be enrolled at a professional higher technical course, at a bachelor degree, at an integrated master or master degree, or to have a bachelor 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;*

**Workplan:** The candidate to be selected is expected to develop the following activities in the framework of the project R2UTechnologies: (i) to adapt a printing system already available at the Department of Mining Engineering of IST, based on a large scale cartesian robot and a screw pump, for the extrusion of cementitious materials; (ii) to prepare a user's manual and a maintenance manual for the printing system; (iii) to carry out experimental work by printing mortars using the printing system; (iv) preliminary activities related to the future improvement of the printing system.

**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 Regulation of Research Fellowships, available on [https://drh.tecnico.ulisboa.pt/files/sites/45/despacho\\_8532\\_regulamento\\_bolsas.pdf](https://drh.tecnico.ulisboa.pt/files/sites/45/despacho_8532_regulamento_bolsas.pdf).

**Workplace:** The work will be developed at CERIS of Instituto Superior Técnico (IST), under the scientific supervision of Professor Eduardo Júlio, Professor Marco Leite and Doctor João Pacheco.

**Duration:** The research fellowship will have the duration of 8 months. It's expected to begin in June 2025 and end in December 2025 (coincident with the conclusion date of the funding project); the research fellowship is not renewable.

**Monthly maintenance allowance:** the amount of the monthly maintenance allowance is € 651.12, being the payment method of the Fellow by wire transfer.

**Selection methods:** The selection methods will be the following: Evaluation of the academic curriculum (40%); Motivation letter (30%) and personal interview (30%).

In the assessment based on documentary elements (academic curriculum and motivation letter), the following factors will be considered: motivation for research in the field of robotics for construction, quality of the curriculum vitae, suitability for the position, and availability to start work. This assessment is eliminatory and will be followed by a selection interview, to be used only in cases where the documentary evaluation is not sufficient to make a decision. If no interview takes place, the weighting will be 40% for the motivation letter and 60% for the curriculum evaluation.

**Composition of the selection Jury:** Professors Eduardo Júlio, André Furtado and João Firmo

**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, within 15 working days counted from the respective notification.

**Application deadline and formalization:** The call is open from May 21 until June 3, 2025.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (<http://drh.tecnico.ulisboa.pt/bolseiros/formularios/> ); ii) *Curriculum Vitae*; iii) academic degree certificate, where applicable; iv) proof of enrollment at an academic degree course or at a course that does not award an academic degree; v) motivation letter; vi) declaration on honour that the applicant does not exceed with this contract, including the possible renovations, an accumulated period of one year in this type of studentship, continuously or with interruptions, and has not held any other fellowship directly or indirectly funded by FCT.

Applications must be submitted to the following emails: [andre.furtado@tecnico.ulisboa.pt](mailto:andre.furtado@tecnico.ulisboa.pt) and [bolsas@drh.tecnico.ulisboa.pt](mailto:bolsas@drh.tecnico.ulisboa.pt)