

(BL52/2026-IST-ID)

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

Applications are open for 1 (number) Research Studentship(s), within the framework of project/R&D institution ORIGINS/IST-ID (title of the project/R&D institution's name), 1801P.01282 - ORIGINS\_2022.05284.PTDC (reference), financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

**Scientific Area:** Chemical and Chemical engineering

**Admission Requirements:**

*a) to hold a bachelor or 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.*

**Workplan:** The goal of this project is to assemble a luminescence-based sensor into the tip of optical fibers to achieve remote sensing of an analyte in fluids of hydrothermal vents. Focus will be given to the assembly of the structure and electronics components of the sensors, which will allow the detection, processing and storage of the data. Chemical sensing often relies on the variation of optical properties of tailored indicator dyes [Baldini et al. 2006], and optical sensors have advantages: contactless and/or long-distance monitoring, absence of electrical interference, and lack of analyte consumption. Plus, the availability of optical fibers enables the use of these sensors in extreme environments [Wang, & Wolfbeis 2016], e.g., in hydrothermal vents.

**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://dre.pt/application/file/a/127230968>.

**Workplace:** The work will be developed at Centro Química Estrutural of Instituto Superior Técnico, under the scientific supervision of Professor Zita Martins

**Duration:** The research fellowship(s) will have the duration of 6 months. It's expected to begin in May/2026, and it will not be renewable.

**Monthly maintenance allowance:** According to the values for Research Fellowships awarded by FCT in Portugal (<https://www.fct.pt/fct-atualizou-o-valor-das-bolsas-para-2025/>), the amount of the monthly maintenance allowance is € 1309,64, being the payment method an option of the Fellow by Wire Transfer/Check.

**Selection methods:** The selection methods will be distributed in two phases. The first selection phase comprises: curriculum evaluation (65% weight) and motivation letter for the work to be performed (35% weight). At most, the top one candidate, selected in the first phase, will be interviewed (in person or remotely), which will draw up the final ranking list. In this interview, the candidate' knowledge in the research area of Astrobiology, including internship in a space agency, and experience with the development of the structure and electronic components of the sensors will be evaluated.

**Composition of the selection Jury:** Professor Zita Martins (IST); Professor João Canário (IST); Dr. Omer Markovitch (IST-ID)

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



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**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 March 25 until April 8, 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; iv) proof of enrollment 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 an accumulated period of two years in this type of studentship, continuously or with interruptions.

Applications must be submitted to the email: [zita.martins@tecnico.ulisboa.pt](mailto:zita.martins@tecnico.ulisboa.pt)



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