

(BL46/2025-IST-ID)

Research Studentships (PhD students)

Applications are open for 1 Research Studentship(s), within the framework of project “Hemoinspired Nanocomposite Membranes for Blood Oxygenation”, (2023.12035.PEX), financed by national funds through FCT/MCTES, under the following conditions:

Scientific Area: Chemistry and Chemical Engineering

Admission Requirements: To be enrolled in a PhD course.

Workplan: Development of nanocomposite membranes by integrating tailored components into polymeric solutions. The membranes will be characterized for blood compatibility under static conditions, followed by an evaluation of their gas permeation properties in a controlled setup. Design of membrane housings and fabrication using 3D printing techniques to construct functional modules which will undergo in vitro validation in an extracorporeal circuit under physiological conditions.

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 the Membranes and Membrane Processes Laboratory of the Center of Physics and Engineering of Advanced Materials (CeFEMA) of Instituto Superior Técnico, Universidade de Lisboa, under the scientific supervision of Doctor Mónica Faria.

Duration: The research fellowship will have a duration of 6 months. It's expected to begin in July of 2025 and may eventually be renewed up to the maximum of 18 months, including the duration of the initial contract.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atualizacao-2024.pdf), the amount of the monthly maintenance allowance is € 1259,64 being the payment method by Wire Transfer.

Selection methods: The selection methods will be the following: Curriculum evaluation (CV and qualifications) (70%); Research experience, collection and publication of data in separation processes (30%); Optional interview in case of a tie between candidates.

Composition of the selection Jury: Alberto Ferro, João Seixas, Mónica Faria.

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

Application deadline and formalization: The call is open from February 28 until March 14, 2025.

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.

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; iv) proof of enrollment at an academic degree course (PhD); v) motivation letter.

Applications must be submitted to the email: monica.faria@tecnico.ulisboa.pt



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