

Scientific Initiation Studentships

Applications are open for one Scientific Initiation Studentships, within the framework of project/R&D institution CleanFish “New Strategies for sustainable production of cell-based fish, 2022.07677.PTDC, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Ambient and Global Changes – Ambiental Technologies

Admission Requirements:

- a) *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;*
- b) *not to exceed with this contract, including the possible renovations, an accumulated period of one year in this type of studentship, continuously or with interruptions;*
- c) *not to have held any other fellowship directly or indirectly funded by FCT.*

Workplan: The work plan focuses on improving biofabrication technologies for application in the CleanFish project, namely: (i) assessing the requirements for biofabrication of fish fillets, by evaluating various existing manufacturing techniques and selecting those best suited for the three-dimensional construction of high-quality fish fillets, and (ii) determining general specifications for a new piece of equipment (dimensions, deposition rates, type of control, etc.). (iii) Developing a device capable of combining 3D bioprinting and electrospinning, with emphasis on the design and optimization of extrusion systems (including suitable extrusion heads), the integration of a high-voltage module for fibre production, and the design of a structure capable of supporting both technologies while maintaining the usual dimensions of a laminar flow chamber. (iv) Subsequently, mechanical calibration and validation through various functional tests.

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 Institute of Biosciences and Bioengineering of Instituto Superior Técnico, under the scientific supervision of Prof. Frederico Ferreira.

Duration: The research fellowship(s) will have the duration of 4 months. It's expected to begin in June 2025, and may be eventually renewed up to the maximum of 2 months.

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 € 651.12, being the payment method of the Fellow by wire transfer.

Selection methods: The selection methods to be used are the following: a curriculum assessment and experience related to the project's theme (35%), scientific merit and innovation potential as expressed in the statement of interest in the application (35%). Candidates will be interviewed (in person, by phone, or via an online video conferencing platform), and the professional and behavioral skills evidenced during the interview will form the basis of the interview assessment (30%). Candidates will be ranked on a scale from 1 to 20 points for each selection method considered.



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Composition of the selection Jury: Professor Frederico Castelo Alves Ferreira, Professor Marco Alexandre de Oliveira Leite e Dr. Paola Sanjuan-Alberte

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 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 May 21 until June 3, 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) 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 email: frederico.ferreira@tecnico.ulisboa.pt and marcoleite@tecnico.ulisboa.pt



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