

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

Applications are open for 1 Research Studentship, within the framework of "Alternative Proteins from Microbial Fermentation of Non-Conventional Sea Sources for Next-Generation Food, Feed and Non-Food Bio-Based Applications- PROMISEANG", with reference 1801P.01327 - PROMISEANG, financed by the European Union, program Horizon Europe 2030 under the following conditions:

Scientific Area: Bioengineering, Biotechnology and Biochemistry

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 renewals, an accumulated period of one year in this type of studentship, continuously or with interruptions.

Workplan: Carry out fermentations in 2 L bioreactors to produce microbial protein using *Gelidium* hydrolysates and tuna skin hydrolysates as C and N sources, respectively. Select and test the best deep eutectic solvents (DES) to extract microbial protein and evaluate the DES regeneration/reutilization potential. Compare with conventional protein extraction methods.

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-humanos/bolseiros/#documentos-relacionados> .

Workplace: The work will be developed at Institute for Bioengineering and Biosciences of Instituto Superior Técnico, under the scientific supervision of Dr. Maria Teresa Cesário and of Professor Marília Mateus.

Duration: The research fellowship(s) will have the duration of 3 months. It's expected to begin in March 2026 and may be eventually renewed depending on the availability of the funds in the project and up to the maximum of 12 months, including the duration of the initial contract.

Monthly maintenance allowance: the amount of the monthly maintenance allowance is 1 309,64 €, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following:

1. Experience with basic laboratory techniques and methods in the area of microbiology, such as the culture of microorganisms and the preparation of culture media and of chemical solutions (total of 20 points);
2. Experience with techniques for extracting macroalgae biomass components in particular proteins as well as with the manufacture of biomass hydrolysates by physicochemical and/or enzymatic methods (total of 20 points).
3. Experience with the operation of microbial cell cultures (in shake flasks and/or benchtop bioreactors) (total of 20 points);
4. Experience in performing chemical and biochemical analyses, namely the analysis of sugars and organic acids by HPLC and the analysis of nutrients by colorimetric methods using spectrophotometry (total of 20 points).
5. Academic career. Attention will be paid to undergraduate degree grades, poster presentations at scientific

meetings and/or participation in scientific publications. The intention to continue for a doctorate will be considered an asset (total of 20 points).

Composition of the selection Jury: Professor Luís Joaquim Pina da Fonseca; Professor Pedro Carlos de Barros Fernandes e Dra Maria Teresa Ferreira Cesário Smolders

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 February 9 until February 13, 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 (only after selection and before signing the contract) ; 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: teresa.cesario@tecnico.ulisboa.pt