

(BL125/2023-IST-ID)

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

Applications are open for one Research Studentship, within the framework of project 2022.01501.PTDC WeakAc_R -Mechanistic insights into adaptation and increased robustness to acetic acid and other weak acids toxicity in yeasts, with the financial support of FCT/MCTES (PIDDAC),

Scientific Area: Biological Sciences

Admission Requirements:

- a) *to hold a bachelor's degree and a master's degree in the fields of biological sciences, biotechnology or related areas and be enrolled at a course that does not award an academic degree, integrated in the educational project of Instituto Superior Técnico, performed in association with iBB-Institute for Bioengineering and Biosciences;*
- b) *documented experience of previous research work on yeasts with preference for experience that facilitates the proper execution of the work program;*
- c) *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 aim of this research program is to uncover novel and relevant biological knowledge on molecular mechanisms and signalling pathways underlying the molecular responses and tolerance of yeasts under stress induced by weak acids, with impact in the area of circular bioeconomy. The studies will involve a chemogenomic analysis to identify genes involved in tolerance to C2-C8 monocarboxylic acids, confirmation of their role in that context, and extension of the analysis to orthologous genes in non-conventional yeasts of biotechnological relevance. It is also planned to contribute to the update and upgrade of the YEASTRACT+ data base, in particular of N.C.YEASTRACT dedicated to nonconventional-yeasts of biotechnological relevance

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 Institute for Bioengineering and Bioscience (iBB) of Instituto Superior Técnico, Universidade de Lisboa, under the scientific supervision of Professor Isabel Sá Correia.

Duration: The research fellowship will have the duration of nine months. It is expected to begin on June 1, 2023 and may eventually be renewed up to the maximum of 12 months.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (<http://www.fct.pt/apoios/bolsas/valores>), the amount of the monthly maintenance allowance is € 1199,64, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods to be used will be based on the analysis of the candidate's CV in terms of: 1) Academic and research merit; 2) Proven experience in the use of Functional Genomics and Bioinformatics

approaches. 3) Proven experience in Molecular Biology and Physiology of yeasts. The valuation to be used in the evaluation will be 40% for criterium 1) and 30% for criteria 2) and 3).

Composition of the selection Jury: Professor Isabel Sá Correia, Professor Arsénio Mendes Fialho, Professor, Miguel Cacho Teixeira

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 April 19 until May 4, 2023.

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 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: isacorreia@tecnico.ulisboa.pt e mafalda.firmino@tecnico.ulisboa.pt