

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

Applications are open for 1 Research Studentship(s), within the framework of project/R&D institution SMARTWINE 2.0/*Instituto de Bioengenharia e Biociências*), (2022.06777.PTDC), financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Biological Sciences

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 person to be recruited will develop work in the area of molecular biology and physiology of the non-conventional yeasts of the *Hanseniaspora* genus, in particular, in the elucidation of the molecular mechanisms underlying aroma production. For this characterization, the person will carry out winemaking tests using strains with different production capacities. It will also use methods to study gene expression of causative genes and also perform genetic/genomic modifications that could lead to higher or lower production levels in various strains belonging to the above-mentioned genus. The fellow will also work on the development of experimental strategies aimed at increasing ethanol tolerance by directed evolution of the strains considered most promising for flavor production. Genome-wide approaches will be used for the molecular characterization of the evolved strains, with an emphasis on genomic and transcriptomic analyses.

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 of Bioengineering and Biosciences of Instituto Superior Técnico, under the scientific supervision of Professor Nuno Pereira Mira

Duration: The research fellowship(s) will have the duration of 5 months. It's expected to begin in February 2024, and it is not renewable.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.pdf), 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 will be the following: academic path (50%); curricular evaluation of the candidate, with emphasis on the demonstration of gathered experience in the manipulation of yeasts and studies performed to characterize their biology and physiology (50%). If considered of interest by the jury, interviews may be conducted to clarify relevant aspects of the candidate's path, being this incorporated into the grading attributed to the academic path.

Composition of the selection Jury: Professor Nuno Pereira Mira, Associate Professor at Instituto Superior Técnico; Professor Miguel Cacho Teixeira, Full Professor at Instituto Superior Técnico; Professor Ana Mendes-Ferreira, Associate Professor at Universidade Trás-os-Montes e Alto Douro.

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 January 24 until February 6, 2024.

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: bolsas@drh.tecnico.ulisboa.pt