

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 SRNAs_EV, 1801P.01255, 2022.07091.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 present fellowship workplan is within the framework of the FCT funded project 2022.07091.PTDC "Are non-coding RNAs contained in *Burkholderia cepacia* complex extracellular vesicles used to manipulate the host's immune response?" The candidate to be selected will participate in the team research work to establish conditions that allow the production of extracellular vesicles (EVs) by *Burkholderia cenocepacia* J2315 in amounts suitable for their characterization. The RNA content of the EVs secreted by *B. cenocepacia* grown under different conditions will be extracted and quantified by UV spectrophotometry and visually inspected after polyacrylamide gel electrophoresis and staining, to check the range of molecular masses of recovered RNAs (sRNAs are of low molecular masses compared to mRNAs).

RNA samples of interest will be analyzed by RNAseq. The previous experience of the candidate in bacterial RNA extraction and analysis and in general molecular biology techniques will be particularly appreciated.

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 Jorge Humberto Gomes Leitão.

Duration: The research fellowship(s) will have the duration of 6 months. It's expected to begin in June 2023, and may be eventually 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 € 930.98, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: Previous experience on the research proposal, curriculum evaluation, and individual interview, with the respective weight of 50, 20, and 30%

Composition of the selection Jury: Professors Arsénio do Carmo Sales Mendes Fialho, Jorge Humberto Gomes Leitão, Joana Rita Rodrigues Feliciano

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 19 until June 1, 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: jorgeleitao@tecnico.ulisboa.pt e mafalda.firmino@tecnico.ulisboa.pt