

(BL49/2022)

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

Applications are open for 1 (one) Research Studentship(s), within the framework of project 'Multi-source modelling of the ocean: coupling Earth observations with acoustic waves', reference UTAP-EXPL/IET/0011/2021 – (1801P.01167), at Centro de Recursos Naturais e Ambiente (CERENA), Instituto Superior Técnico, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Geophysics, spatial data science

Admission Requirements: *To hold a bachelor or master degree in Geophysics, Earth Sciences, Mining Engineering or related topics and be enrolled at a course that does not award an academic degree.*

Workplan: 1) Processing of seismic reflection sections to image the water column (seismic oceanography); 2) Development of deep learning methods to model ocean properties combining geophysical and satellite data. The methods will be applied in a real case study in the Atlantic Ocean.

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 CERENA of Instituto Superior Técnico, under the scientific supervision of Prof. Leonardo Azevedo.

Duration: The research fellowship(s) will have the duration of 12 months. It's expected to begin in April 2022, and may be eventually renewed up to the maximum of 06 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 € 1,104.64, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: The selection methods will be the following: Curriculum evaluation, and eventually individual interview if this is deemed necessary for the final ranking of the candidates. The evaluation criteria will be as follows:

1. Experience in scientific programming
2. Experience in deep learning.
3. Experience with seismic data processing

Composition of the selection Jury: Prof. Leonardo Azevedo; Prof. Maria João Pereira; Prof. Amílcar Soares

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 March 08st, 2022 until March 31st, 2022

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: juliar@tecnico.ulisboa.pt