

(BL61/2023-IST-ID)

## Post-Doctoral Research Fellowships

Applications are open for 1 (one) Post-Doctoral Research Fellowship(s), within the framework of project/R&D institution (title of the project/R&D institution's name), (reference), financed by national funds through PRR, under the following conditions:

**Scientific Area:** Mining Engineering, Mechanical Engineering, Materials Engineering

**Admission Requirements:**

- a) to hold a PhD degree obtained in the 3 years previously to the submission of the fellowship application;
- b) to have carried out the research work that led to the PhD degree in a different entity from the host institution of the fellowship;
- c) Not to exceed, with this fellowship contract, including the possible renovations, an accumulated period of 3 years in this type of fellowship, continuously or with interruptions;
- d) Not to have previously held a post-doctoral fellowship from IST.
- e) Proven experience in product development, machine learning, and modeling.
- f) Have, at least, 1 (one) publication in a scientific journal classified as Q1 impact factor in Thomson Reuters, relevant to the scientific areas of the call in the last 5 (five) years.

**Workplan:** Application of deep learning techniques for the estimation of rock characteristics and uncertainty quantification of forecasting models. Application on small and large scale models. Image analysis and oversampling techniques. Application of a pilot at industrial scale.

**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 Centro de Recursos Naturais e Ambiente of Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento, under the scientific supervision of Professor Gustavo Paneiro

**Duration:** The research fellowship(s) will have the duration of 36 months. It's expected to begin in March 2023.

**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 € 1.686,00, being the payment method an option of the Fellow by Wire Transfer/Check.

**Selection methods:** The selection methods will be the following: *Curriculum evaluation, individual interview with a 50:50 weight.*

**Composition of the selection Jury:** Gustavo André Paneiro, Leonardo Azevedo Guerra Raposo Pereira, Pedro Miguel Gomes Abrunhosa Amaral

**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 1 until March 14, 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; iv)

motivation letter; v) declaration on honour that the applicant does not exceed with this contract an accumulated period of three years in this type of fellowship, continuously or with interruptions, within the technological and scientific system, and that the research work that led to the PhD degree was carried out in a different entity from the host institution of the fellowship.

Applications must be submitted to the email: [juliar@tecnico.ulisboa.pt](mailto:juliar@tecnico.ulisboa.pt)