

Research Studentships (for Master or Integrated Master students)

Applications are open for 2 (two) Research Studentship(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 (Plano de Recuperação e Resiliência, through IAPMEI – Agência para a Competitividade e Inovação, under the following conditions:

Scientific Area: Mining Engineering, Mechanical Engineering, Materials Engineering

Admission Requirements: To be enrolled at an integrated master's or a master's in Mining engineering, Mechanical Engineering, Materials Engineering, or similar areas. It will be a preferential factor if the candidate demonstrates proven experience in machine learning, deep learning, and modeling.

Workplan: Application of deep learning techniques for image processing for the estimation of visual rock characteristics and uncertainty quantification of estimation models. Application of the models on small and large scales. Image Analysis and Oversampling Techniques.

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 a duration of 6 months. It's expected to begin in May 2024. Cannot renewed.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atualizacao-2024.pdf), the amount of the monthly maintenance allowance is € 990,98, being the payment method by Wire Transfer.

Selection methods: The selection methods will be the following: *Curriculum evaluation (30%), Motivation Letter (10%), recommendation letters (up to two) (5%), and individual interview (55%).*

Composition of the selection Jury: Professor Gustavo André Paneiro, Professor Leonardo Azevedo Guerra Raposo Pereira, Doctor António Pedro Dias Alves de Campos

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 15 until April 26, 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 an academic degree course (Master, Integrated Master); v) motivation letter; vi) recommendations letters.

Applications must be submitted to the email: gustavo.paneiro@tecnico.ulisboa.pt