

Research Studentships (Master or Integrated Master students)

Applications are open for one Research Studentship, within the framework of project 1801P.01493 – MD-RT, financed by national funds through FCT project 2023.13018.PEX, under the following conditions:

Scientific Area: Mining Engineering

Admission Requirements: *To be enrolled at an integrated master or master degree.*

Workplan: Organize and structure the existing code in a GitHub repository. Adapt the 2D architecture of a Bayesian neural network to a 3D model applied to the modeling of geological domains. Develop a neural network architecture capable of emulating geostatistical algorithms. The main goal is to automate the spatial modeling of mineral resources with uncertainty quantification.

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 Professor Helga Jordão.

Duration: The research fellowship will have the duration of 6 months. It's expected to begin in July 2025, and may be eventually renewed up to the maximum of 12 months, including the duration of the initial contract.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (<https://www.fct.pt/fct-atualizou-o-valor-das-bolsas-para-2025/>), the amount of the monthly maintenance allowance is € 1040.98, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: Curriculum evaluation and, if necessary, an individual interview with the three best candidates after the curricular evaluation, with a respective score of 70% curricular evaluation and 30% interview.

Composition of the selection Jury: Professor Helga Jordão, Professor Amélia Dionísio and Professor Gustavo Paneiro.

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 June 12 until June 27, 2025.

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;

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



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