

Scientific Initiation Studentships

Applications are open for 2 Scientific Initiation Studentships, within the framework of project 1801P.01224.1.01 - BE.Neutral, contract nº 35, financed by the European Recovery and Resilience Plan, under the following conditions:

Scientific Area: Mechanical Engineering, Energy Management Engineering, Electrotechnical Engineering, Energy and Environment

Admission Requirements: *To be enrolled at a professional higher technical course, at a bachelor degree, at an integrated master or master degree, or to have a bachelor 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;*

Workplan: As part of the BE.Neutral project, 2 Scientific Initiation Studentships will be supported, each with the following workplan:

Profile a): this work focuses on the development of a methodological framework for allocating greenhouse gas emissions based on consumption-based accounting rather than traditional production-based approaches. The student will review international methodologies, adapt them to the Portuguese context, and implement a prototype capable of reallocating emissions across economic sectors and regions based on final consumption patterns. The framework will be applied to national datasets to support a more accurate and equitable understanding of Portugal's carbon footprint. Preference will be given to candidates with knowledge in environmental economics, input-output analysis, and experience with Python.

Profile b): this work aims to characterize voluntary carbon markets, identifying the types of agents involved (e.g., project developers, verifiers, buyers), the structure of transactions, and potential mechanisms for integration with national or EU-level climate strategies. The student will explore different frameworks for incorporating voluntary offset schemes into policy discussions and estimate the potential environmental and economic impacts of expanding voluntary market participation. Activities include literature review, typology development, and scenario-based impact assessment. Familiarity with sustainability policy, carbon accounting, and data analysis tools (e.g., Python, Excel) is preferred.

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; https://ist-id.pt/files/sites/43/regulamento-de-bolsas-da-ist_id-2.pdf

Workplace: The work will be developed at IN+, Center for Innovation, Technology and Policy Research of IST-ID, under the scientific supervision of Professor Paulo Ferrão.

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

Monthly maintenance allowance: the amount of the monthly maintenance allowance is 651,12 €, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: Curriculum evaluation, with the respective assessment of curricular excellence (40%) and relevant experience for the project (40%). The best-ranked candidates in the curriculum evaluation will be invited to an individual interview, knowledge tests, others), with the respective weight of 20%.

Composition of the selection Jury: Professor Paulo Ferrão, Professor Patrícia Baptista, Professor Joana Portugal.

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 26 until July 9, 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 or PhD) or at a course that does not award an academic degree; v) motivation letter stating the profile he/she is applying to;

Applications must be submitted to the email: jobs@in3.tecnico.ulisboa.pt