

One Research Grant for a student of a course that does not award an academic degree

Applications are open for one Research Grant, within the framework of project “BLOCKCHAIN.PT” (Contract no. 51) of IST-ID, funded by national funds through IAPMEI/PRR (Mobilising Agendas for Business Innovation), under the following conditions:

Scientific Area: Environment and Energy.

Admission Requirements: candidates must: a) hold a master degree and be enrolled (at the moment of grant contract signing) at a course that does not award an academic degree and is integrated in the educational project of a higher education institution, performed in association or cooperation with one or several R&D units; b) not to exceed with this contract, including the possible renovations, an accumulated period of two years in this type of grant, continuously or with interruptions.

Workplan: Implementation of a two-sector model for the economy - an energy sector responsible for primary-final-useful energy conversion, and a non-energy sector responsible for the production of all other goods and services - for the United States of America between 1960 and 2019. The work to be carried out involves compiling, disaggregating and reclassifying macroeconomic national accounts and energy balances in order to match the variables in the model. This process includes a component of disaggregation, by type of good and by institutional sector, of consumption, foreign trade, human labour, payments to factors of production, and energy consumption. The importance of disaggregating and reclassifying expenditure on capital investment and the corresponding stocks and depreciation stands out, with particular attention to capital investment that boosts the digitalisation of the economy (ICT - information and communication technologies). Writing a scientific article.

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 MARETEC - Marine, Environment and Technology Centre of Instituto Superior Técnico (IST), under the scientific supervision of Researcher João Alexandre Almeida dos Santos.

Duration: The research grant will have a duration of 6 months. It is expected to begin in February 2024 and the grant contract can, if justified, be eventually renewed.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.pdf), the amount of the monthly maintenance allowance is 1,199.64 €, being the payment method (by wire transfer or cheque) an option of the Research Fellow. The grant holder will be reimbursed of the payment of Voluntary Social Security (up to the amount corresponding to the 1st grade).

Selection methods: The selection methods will be the following:

- 1) Curriculum evaluation, valued at 60%, of which:
 - a. 20% will be attributed to the classification obtained in the master degree (score from 1 to 20);
 - b. 20% will be attributed to familiarity with macroeconomics topics, especially economic growth theory, and the System of National Accounts (score from 1 to 20);
 - c. 10% will be awarded to the familiarity with thermodynamics and energy technology topics (score from 1 to 20);

- d. 10% will be attributed to familiarity with Data Science and Machine Learning topics (score from 1 to 20).

2) Motivation letter, value at 20% (score from 1 to 20);

3) Possible individual interview (in the event of a tie between the candidates with the highest score), with a score of 20% (1 to 20).

If there are no candidates with a score of more than 60 per cent in criterion 1, no candidate will be selected.

Composition of the selection Jury: Tiago Morais Delgado Domingos (Associate Professor, President of the Jury), Tânia Alexandra dos Santos Costa e Sousa (Assistant Professor) and Researcher João Alexandre Almeida dos Santos. Substitute member: Researcher Gonçalo José Monteiro Marques.

Announcement/ notification of the results: The final evaluation results will be communicated to all applicants by e-mail.

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 January 24 until February 6, 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; iv) proof of enrollment a course that does not award an academic degree (only at the time of contract signing); 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 by e-mail to nuno.sarmiento@tecnico.ulisboa.pt