

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

Applications are open for one Research Grant, within the framework of the project “LEAnMeat - Lifecycle-based Environmental Assessment and impact reduction of Meat production with a novel multi-level tool” (IST-ID) (PTDC/EAM-AMB/30809/2017), financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Environmental Engineering.

Admission Requirements: to hold a Master’s degree and be enrolled at a course that does not award an academic degree (at the date of signing the contract) and is integrated in the educational project of a higher education institution, performed in association or cooperation with one or several R&D units; 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.

Academic degrees obtained in foreign countries shall be registered by a Portuguese institution, according to the Decree-Law nr. 66/2018, of August 16th, and the Ordinance nr. 33/2019, of January 25th. It is mandatory to present the certificate to sign the contract. More information is available on <https://www.dges.gov.pt/pt/pagina/reconhecimento?plid=374>.

Workplan: Support in the development of a method for environmental assessment of livestock production processes based on an Agent-Based Model (ABM) for farms (Activity 2, Task 1 of project PTDC/EAM-AMB/30809/2017). Work will be based on an existing ABM, which should be updated and expanded. The ABM will be calibrated using the agricultural census of 2009 conducted for all farmers in Portugal by the national statistics office (INE). The ABM will simulate farmer decisions between land uses with a focus on grassland farmers. The model will be published as a scientific paper, which is very relevant for the above-referred course. An additional review paper should be prepared on using ABM for environmental assessment in order to frame the work and highlight its originality.

Legislation and Regulations: Lei n.º 40/2004, de 18 de agosto (Estatuto do Bolseiro de Investigação Científica), na redação que lhe foi dada pelo Decreto-Lei n.º 123/2019, de 28 de agosto; Regulamento de Bolsas de Investigação da FCT, disponível em <https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>

Workplace: The work will be developed at the Research Centre MARETEC of Instituto Superior Técnico, under the scientific supervision of Professor Tiago Domingos.

Duration: The research fellowship will have the duration of 6 months. It’s expected to begin in April 2021 and may be eventually renewed up until 12 months of total duration .

Monthly maintenance allowance: According to the values for Research Grants awarded by FCT in Portugal (<http://www.fct.pt/apoios/bolsas/valores>), the amount of the monthly maintenance allowance is 1,104.64 €, being the payment method an option of the Fellow by Wire Transfer/Cheque. The grant holder will be reimbursed of his/her payment of Voluntary Social Security (up to the amount corresponding to the 1st level).

Selection methods: The selection methods will be the following:

- Experience in agent-based modelling of land use choices applied to environmental impact assessment, in particular for grassland-based animal production: 50% (0/20);
- Average Grade of the Master’s degree: 30% (0/20);
- Individual interview (only in case of a draw between the better scored candidates): 20% (0/20), with the following evaluation topics:

- Knowledge of land use agent-based models: 40% (0/20);
- Knowledge of farming environmental issues, especially related to animal production systems: 40% (0/20);
- Proficiency in written and spoken English: 20% (0/20).

Composition of the selection Jury: Chairman: Prof. Tiago Morais Delgado Domingos. Voting Members: Prof. Ricardo Filipe de Melo Teixeira and Prof. Ramiro Joaquim de Jesus Neves. Substitute: Prof. Tânia Alexandra dos Santos Costa e Sousa.

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 12 until 23 April 2021.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (www.ist-id.pt); ii) *Curriculum Vitae*; iii) Master's degree certificate; 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 grant, continuously or with interruptions.

Applications must be submitted to the email nuno.sarmiento@tecnico.ulisboa.pt