

(BL248/2023-IST-ID)

One Post-Doctoral Research Grant

Applications are open for one Post-Doctoral Research Grant within the framework of project CE2COAST (JP/OCEANS/0002/2019) of IST-ID, funded by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Mechanical Engineering and Engineering Systems (sub-area: Energy and Environment).

Admission Requirements:

- a) to hold a PhD degree obtained in the 3 years previously to the submission of the grant application;
- b) to have carried out the research work that led to the PhD degree in a different entity from the host institution of the grant;
- c) Not to exceed, with this grant contract, including the possible renovations, an accumulated period of 3 years in this type of grant, continuously or with interruptions;
- d) Not to have previously held a post-doctoral grant from IST-ID.

Workplan: The grant holder will be expected to carry out the following tasks:

- Supporting the exploration and development of a model applied to the Tagus Estuary to assess the effect of the basin on water quality and coastal ecosystems;
- Analysing results and evaluating scenarios;
- Disseminating the results.

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/LARSyS of Instituto Superior Técnico, under the scientific supervision of Professor Marcos Mateus.

Duration: The grant will last for 4 months, starting in October 2023. The project will end on 31/05/2024, and if it is extended, the contract may be renewed until the new end date of the project, provided that the grant holder does not exceed a cumulative period of 36 months on this type of grant, consecutive or interpolated.

Monthly maintenance allowance: According to the values for Research Grants 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 1,741.00 €, according to the table of values in Annex I of the IST-ID Research Grant Regulations (<https://ist-id.pt/concursos/bolsas/>), and the method of payment is at the option of the scholarship holder (bank transfer or cheque). The grant holder will be reimbursed for the payment of Voluntary Social Insurance (up to the amount corresponding to the 1st step).

Selection methods: The selection methods will be the following:

- Knowledge of Hydrology and Soils: 20% (0/20);
- Knowledge of the MOHID Land model and experience in hydrodynamic and operational modelling using the MOHID system: 20% (0/20);
- Programming skills (Fortran, C++, visualbasic, Matlab, Python): 10% (0/20);
- Individual interview (in the event of a tie between the best-placed candidates), where motivation and specific knowledge will be assessed: 50% (0/20).

Composition of the selection Jury: President: Assistant Professor Marcos Mateus; Members: Full Professor Ramiro Neves and Researcher Lígia Pinto.

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 September 13 until September 26, 2023.

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) motivation letter; v) declaration on honour that the applicant does not exceed with this contract an accumulated period of three years in this type of grant, continuously or with interruptions, within the technological and scientific system, and that the research work that led to the PhD degree was carried out in a different entity from the host institution of the grant.

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