(BL268/2025-IST-ID)

One Research Fellowship for a PhD student

Applications are open for one Research Fellowship, within the framework of project "Lab. Associado LARSyS - MARETEC 2021-2025" (LA/P/0083/2020 - MARETEC), of IST-ID, with the financial support of FCT/MCTES through national funds, under the following conditions:

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

Admission Requirements: candidates must be enrolled at a PhD programme at the time of contract signing.

Workplan: At the end of the workplan, the research fellow should be able to achieve the following main objectives:

O1 - Rethink the use of renewable ocean energy at national and global level and address the issue of climate change and carbon emissions, with particular emphasis on wave energy or its hybridisation with offshore wind energy;

O2 - Develop software tools capable of solving engineering problems related to the production, distribution and intermittency of large-scale renewable ocean energy (with an emphasis on the national context and endogenous storage capacities).

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 https://dre.pt/application/file/a/127230968 .

Workplace: The work will be carried out at the research Centre MARETEC/DEM of Instituto Superior Técnico (University of Lisbon), under the scientific guidance of Professors Sérgio Ribeiro e Silva and João Henriques (the latter from the Research Centre IDMEC).

Duration: The fellowship will last for 12 months and is expected to start in January 2026. The fellowship contract may be renewed for up to a maximum of 24 months. When the academic degree is awarded during the term of the fellowship contract, it may be completed under the contractual terms established.

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 1,309.64 €, with the payment method being at the discretion of the fellowship recipient (by bank transfer or cheque). The fellowship holder will be reimbursed for the payment of Voluntary Social Security (up to the amount corresponding to the 1st bracket).

Selection methods: The selection methods will be the following:

- Curriculum assessment: 25% (score from 1 to 20);

- Individual interview (conducted in the presence of members of the national jury and with remote participation of juries abroad): 35% (score from 1 to 20);

- Knowledge assessment tests on the process of converting wave energy into electricity and programming (in the FORTRAN, MatLab or Python programming languages chosen by the candidate): 40% (score from 1 to 20).

Fundação para a Ciência e a Tecnologia

Composition of the selection Jury: Sérgio Ribeiro e Silva (Assistant Professor, Chair); João Carlos de Campos Henriques (Associate Professor, member); Ramiro Joaquim de Jesus Neves (Full Professor, member); Lígia Laximi Machado de Amorim Pinto (Assistant Researcher, substitute).

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 January 6 until January 19, 2026.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (https://ist-id.pt/recursos-humanos/bolseiros/#documentos-relacionados); ii) *Curriculum Vitae*; iii) academic degree certificate, where applicable; iv) proof of enrollment at PhD programme (only at the time of contract signing); v) motivation letter.

Applications must be submitted to the e-mail nuno.sarmento@tecnico.ulisboa.pt