

(BL137/2026-IST-ID)

Research Studentships PhD students

Applications are open for 1 Research Studentship(s), within the framework of project TIES, Transforming Hydropower: Integrating Flexibility, Ecosystem Health, and Societal Needs – 101269457 - IST-ID, Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento (1018P.01718.1.01), through international funds and under the following conditions:

Scientific Area: Environment and global alterations

Admission Requirements: *To be enrolled at a PhD.* Master's degree in Civil Engineering, or Master's degree in Environmental Engineering, Ecology, or a closely related field, related areas.... And other conditions if applicable.

Admission requirements: Applicants must hold a

The ideal candidate should have:

- Experience in field and/or laboratory work related to aquatic ecosystems.
- Knowledge of data analysis and statistical methods, preferably using R, Python, or similar software.
- Experience with hydraulic, hydrodynamic, habitat or GIS modelling tools will be considered an asset.
- Good scientific writing skills and proficiency in spoken and written English.
- Strong problem-solving abilities, with the capacity to work both independently and as part of an interdisciplinary and international research team.
- Motivation to conduct high-quality research and disseminate results through peer-reviewed publications and international conferences.

Workplan: The PhD candidate will investigate the ecological impacts of flexible hydropower operation on freshwater ecosystems by combining field monitoring, laboratory experiments, ecohydraulic analyses and predictive modelling. The research will focus on understanding the effects of hydropeaking on fish populations and critical habitats, identifying the main environmental drivers of ecological impacts, and developing science-based strategies to monitor and support environmentally sustainable hydropower operation. The candidate will contribute to the analysis of ecological and environmental datasets, hydrodynamic and habitat modelling with the aim of improving the balance between renewable energy production and biodiversity conservation. Results will be disseminated through peer-reviewed scientific publications and international conferences.

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; IST-ID Regulation of Scientific Research Fellowships, available on <https://ist-id.pt/recursos/documentos/recursos-humanos/bolseiros/#1690453819726-6707f7f2-ce04>

Workplace: The work will be developed at CERIS of IST-ID, Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento, under the scientific supervision of Professor Isabel Boavida.

Duration: The research fellowship will have the duration of 36 months, scheduled to start in October 2026, and may be eventually renewed up to the maximum of 12 months, including the duration of the initial contract.

Monthly maintenance allowance: the amount of the monthly maintenance allowance is 1800€, being the payment method an option of the Fellow by Wire Transfer.

Selection methods: The selection methods will be the following: Curriculum evaluation and individual interview, with the respective weights of 80 and 20%, respectively.

Composition of the selection Jury: Prof. José Pedro Matos; Prof. Dília Covas; Prof. Isabel Boavida

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 August 18 until August 24, 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 an academic degree course (PhD); v) motivation letter.

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