

(BL36/2026-IST-ID)

Post-Doctoral Research Fellowships

Applications are open for 1 Post-Doctoral Research Fellowship, within the framework of project/R&D institution (Advances in Spectral and Shape Optimization/Center for Mathematical Analysis, Geometry and Dynamical Systems), (2024.14494.PEX), financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: PhD in Mathematics or in a related area.

Admission Requirements:

- a. *to hold a PhD degree obtained in the 3 years previously to the submission of the fellowship 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 fellowship;*
- c. *Not to exceed, with this fellowship contract, including the possible renovations, an accumulated period of 3 years in this type of fellowship, continuously or with interruptions;*
- d. *Not to have previously held a post-doctoral fellowship from IST.*

Workplan: The project will focus on exploring spectral and shape optimization problems inspired by the study of population dynamics through a model based on the logistic equation. Tools and methodologies from functional analysis, geometry, PDEs, and calculus of variations will be essential. Three geographical poles are involved in the project: Chile, Portugal, and Italy, with Portugal serving as the central hub. The postdoc will join a team of four researchers and eight consultants.

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

Workplace: The work will be developed at Center for Mathematical Analysis, Geometry and Dynamical Systems of Instituto Superior Técnico, under the scientific supervision of Dr. Delia Schiera.

Duration: The research fellowship will have the duration of 12 months. It's expected to begin in April 2026, and cannot be renewed.

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 € 1851, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: CV, research statement and up to 3 recommendation letters, with equal weights, followed by a possible individual interview (Zoom).

Composition of the selection Jury: Delia Schiera, Hugo Tavares, Giuseppe Negro.



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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 March 17 until March 30, 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; iv) research statement; v) declaration on honour that the applicant does not exceed with this contract an accumulated period of three years in this type of fellowship, 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 fellowship.

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



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