

Scientific Initiation Studentships

Applications are open for 1 Scientific Initiation Studentships, within the framework of project/R&D institution (title of the project/R&D institution's name), (1801P.01335.1.01), ERC-PT - Super-diffusive, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Mathematics

Admission Requirements:

- a) *To be enrolled at a professional higher technical course, at a bachelor degree, at an integrated master or master degree, or to have a bachelor degree and be enrolled at a course that does not award an academic degree and it is integrated in the educational project of a higher education institution, performed in association or cooperation with one or several R&D units;*
- b) *not to exceed with this contract, including the possible renovations, an accumulated period of one year in this type of studentship, continuously or with interruptions;*
- c) *not to have held any other fellowship directly or indirectly funded by FCT.*

Workplan: The work plan consists in analyzing the asymptotic limit of particle systems which have local perturbations. The special attention will be given to the exclusion process with a slow site for which we predict that the hydrodynamic equation should be the heat equation with non-linear Robin boundary conditions. The research fellow should also be available for some teaching duties.

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 the Mathematics Department of Instituto Superior Técnico, under the scientific supervision of professor Patrícia Gonçalves.

Duration: The research fellowship will have the duration of 5 months. It's expected to begin in October/2025, and may be eventually renewed up to the maximum of 10 months, including the duration of the initial contract.

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 €651,12; being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: *Curriculum evaluation*, with the weight of 100%.

Composition of the selection Jury: Patrícia Gonçalves, Pedro Resende, José Mourão.

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 21 until September 3, 2025.

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, where



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applicable; iv) proof of enrollment at an academic degree course or at a course that does not award an academic degree; v) motivation letter; vi) declaration on honour that the applicant does not exceed with this contract, including the possible renovations, an accumulated period of one year in this type of studentship, continuously or with interruptions, and has not held any other fellowship directly or indirectly funded by FCT.

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



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