(BL121/2024-IST-ID)

Research Studentships (for Master or Integrated Master students)

Applications are open for one Research Studentship, within the framework of project NoDES, Nonlinear Dispersive and Elliptic Systems – new horizons in regularity, dynamics and asymptotic analysis, reference PTDC/MAT-PUR/1788/2020, financed by national funds through FCT/MCTES (PIDDAC), co-financed by the FEDER, under the Partnership Agreement PT2020, under the following conditions:

Scientific Area: Mathematics

Admission Requirements:
> *a) to hold a bachelor degree in Mathematics or Physics;*
> *b) To be enrolled at an integrated master or a master.*

Workplan: Study of shape optimization problems where the cost function is related to eigenvalues of the Laplacian operator with Dirichlet conditions. Study of results of existence and regularity of solutions

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 CAMGSD – Center for Mathematical Analysis, Geometry and Dynamical Systems of Instituto Superior Técnico, under the scientific supervision of Professor Hugo Ricardo Nabais Tavares.

Duration: The research fellowship(s) will have the duration of 6 months. It's expected to begin in June, 2024. The contract can not be renewed.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atualizacao-2024.pdf), the amount of the monthly maintenance allowance is € 990,98, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: *Curriculum evaluation (including previous experience in the tasks to be developed) and motivation letter,* with the respective weight of 70% and 30%.

Composition of the selection Jury: Professor Hugo Tavares, Professor Simão Correia and Professor Jorge Drumond Silva.

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 May 8 until May 21, 2024.

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 applicable; iv) proof of enrollment at an academic degree course (Master, Integrated Master or PhD) or at a course that does not award an academic degree; v) motivation letter.

Applications must be submitted to the email: hugo.n.tavares@tecnico.ulisboa.pt

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