

(BL242/2023-IST-ID)

Research Studentships (Master or Integrated Master students, or PhD students)

Applications are open for 1 Research Studentship, within the framework of project “HemoControl”, reference PTDC/MAT-APL/7076/2020, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Mathematics (Numerical Analysis, Optimization, Mathematical Modelling)

Admission Requirements: *To be enrolled at an integrated master or a master in the area Mathematics.*

Workplan: Numerical analysis of optimal control problems with boundary control. Analysis of finite element approximation in the case of Dirichlet type controls, for bidimensional models of partial differential equations.

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 under the scientific supervision of Jorge Tiago from CEMAT- Center for Computational and Stochastic Mathematics, IST.

Duration: The research fellowship will have the duration of 6 months. It's expected to begin in September/October 2023, and may be renewed for periods of 3 months up to a max of 12 months.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (<http://www.fct.pt/apoios/bolsas/valores>), the amount of the monthly maintenance allowance is € 930,98, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: Curriculum evaluation with possible individual interview (by videoconference) to the top 2 candidates for additional clarification purposes. In the later situation the respective weight will be of 60%/40%. Previous academic knowledge and/or research experience considered relevant to the project's tasks will be preferred.

Composition of the selection Jury: Jorge Tiago, Ana Leonor Silvestre e Telma Cotovio Guerra.

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 September 11 until September 22, 2023.

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

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