

(BL212/2021)

Post-Doctoral Research Fellowships

Applications are open for **one** Post-Doctoral Research Fellowship within the framework of project from the R&D institution of IST-ID, CEMAT – Centro de Matemática Computacional e Estocástica, UIDP/04621/2020, financed by national funds through FCT/MCTES (PIDDAC) under the following conditions:

Scientific Area (FCT): Mathematics (Numerical Analysis, Optimization and Mathematical Modeling).

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 postdoctoral researcher should develop his scientific activities at CEMAT, in one of the following research lines:

- *Numerical Analysis and Applications:* Research work on this area gathers analytic, numerical and computational aspects, and often its integration, to achieve efficient numerical algorithms. It includes computational fluid dynamics, numerical methods for differential and integral equations, neural field modeling.

- *Mathematical Modeling and Simulations in Biomedicine:* Development and analysis of mathematical models and algorithms to simulate clinically relevant problems related with cardiovascular diseases, using personalized data. Modeling of infection diseases. Computational virology.

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 CEMAT – Centro de Matemática Computacional e Estocástica (IST-ID), under the scientific supervision of Prof. Ana Leonor Silvestre.

Duration: The research fellowship will have the duration of *12 months*. It's expected to begin in **March 2022**, and may be eventually renewed up to the maximum of 24 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 € 1.646, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be the following: *Curriculum evaluation-70%, individual interview via Zoom (Colibri) – 30% (only the top 3 candidates from the curricular evaluation)*.

Composition of the selection Jury: Ana Leonor Silvestre, Pedro Lima, Adélia Sequeira.

Announcement/ notification of the results: The final evaluation results will be communicated to all applicants by email.

Application deadline and formalization: The call is open from **January 17** until **January 28, 2022**.

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) motivation letter; 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: bolsas@drh.tecnico.ulisboa.pt