

(BL250/2023_IST-ID)

Research Studentship for Master or Integrated Master students

Applications are open for 1 Research Studentship for Master or integrated Master students, within the framework of LARSyS projects with references UIDB/50009/2020 and LA/P/0083/2020, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions

Scientific Area: Signal Processing and Computer Science

Admission Requirements: *To be enrolled at an integrated master or a master.*

Workplan: Artificial intelligence models have had a huge impact in many areas. One of them is health, where there has been a real revolution with the appearance of models that manage to match or even surpass the performance of physicians in diagnostic tasks. However, this comes at the expense of a lack of transparency in the development of models that has limited their application in clinical practice. Additionally, it is difficult to understand the true impact of these models on cooperation with clinicians, as well as the information they are extracting from medical data. This project therefore aims to develop and evaluate, in collaboration with physicians, new AI models that are based on principles of explainability and transparency. One of the application areas, although not exclusive, will be skin cancer, where the research team has made relevant contributions in recent years and actively collaborates with an international network of dermatologists.

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 Institute for Systems and Robotics from Instituto Superior Técnico, under the scientific supervision of Prof. Catarina Barata.

Duration: The research fellowship will have the duration of 3 months (project UIDB/50009/2020). It's expected to begin in October, 2023, and may be eventually renewed up to the maximum of 12 months (project LA/P/0083/2020).

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 and past experience, with the respective weight of 50%/50%.

Composition of the selection Jury: Professors Catarina Barata, Alexandre Bernardino and José Gaspar.

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 within 30 working days, both counted from the respective notification.

Application deadline and formalization: The call is open from September 13 until 26 September, 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) proof of enrollment at an academic degree course (Master or Integrated Master); and
- iv) motivation letter.

Applications must be submitted to the email: ana.c.fidalgo.barata@tecnico.ulisboa.pt