

1 Research Studentship for Master or Integrated Master student

Applications are open for one Research Studentship for Master or Integrated Master student, within the framework of project MIA-BREAST, reference 2022.04485.PTDC, financed by national funds through FCT/MCTES, under the following conditions:

Scientific Area: Artificial Intelligence.

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

Workplan: This work aims to develop a new machine learning method for breast cancer diagnosis. Specifically, the proposed approach will be based on weakly supervised multiple instance learning (MIL) applied to mammography at multiple resolutions. The work will comprise the following two tasks: (1) classification, and (2) detection of breast lesions. The first task aims to predict the presence of lesions in the images, while the second will provide the location of those lesions in the breast tissue.

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 Instituto de Sistemas e Robótica, from Instituto Superior Técnico, under the scientific supervision of Professors Carlos Santiago, Margarida Silveira and Jacinto C. Nascimento.

Duration: The research fellowship will have an initial duration of 6 months. It's expected to begin in October and may eventually be renewed up to the maximum of 24 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/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: Curriculum evaluation (60%) and previous experience on the topics related to the grant (40%). The candidates may be invited for an interview, for additional discrimination between levels of expertise.

Composition of the selection Jury: Professors Margarida Silveira, Carlos Santiago and Jacinto C. Nascimento.

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 25 until October 8, 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) Proof of enrollment at an academic degree course (Master, Integrated Master);
- iv) Motivation letter.

Applications must be submitted at <https://welcome.isr.tecnico.ulisboa.pt/opportunities/>



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