

(BL122/2024-IST-ID)

### Research Studentships (Master or Integrated Master students)

Applications are open for 2 Research Studentships, within the framework of project FirePuma – Forest Fire Prevention through Uncertainty Minimization in Surveillance – PCIF/MPG/0156/2019, financed by national funds through FCT under the following conditions:

**Scientific Area:** Automation, Control and Robotics

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

**Workplan:** Scholarship nº1 will focus on preparing the experimental validation associated with project FirePuma which includes coding and implementing in ROS the solutions for trajectory generation. Scholarship nº 2 will be devoted to developing nonlinear regression techniques applied to Gaussian Mixtures to be applied in the propagation of the uncertainty map part and included in the validation phase.

**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 the Institute for Systems and Robotics of Instituto Superior Técnico, under the scientific supervision of Prof. Daniel Silvestre and Prof. Rita Cunha.

**Duration:** The research fellowship(s) will have the duration of 4 months. It's expected to begin in June of 2024, and may be eventually renewed up to the maximum of 8 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](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 by Wire Transfer.

**Selection methods:** The selection methods will be the following: 70% for curricular evaluation and 30% for experience in research projects related to the workplan. In case the jury deems necessary, it can be requested an individual interview with the weight of 50% being the mentioned metrics reduced to 35% for the curricular evaluation and 15% for the previous experience.

**Composition of the selection Jury:** Prof. Rita Cunha, Prof. David Cabecinhas, Prof. Pedro Batista and Prof. Daniel Silvestre.

**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 9 until May 22, 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); v) motivation letter;

Applications must be submitted to the email: [dsilvestre@isr.tecnico.ulisboa.pt](mailto:dsilvestre@isr.tecnico.ulisboa.pt)



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