

(BL190/2024-IST-ID)

Research Studentships (for Master or Integrated Master students)

Applications are open for 1 Research Studentship(s), within the framework of R&D project “WSmart Route+: Towards a Smart Waste Collection Route Planning System”, Ref: (1801P.01267.1.01) 2022.04180.PTDC - IST-ID, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Engineering and Management

Admission Requirements:

- a) *To be enrolled at an integrated master or a master.*
- b) *Completion and expertise of the Logistics and Distribution curricular unit*
- c) *Knowledge of the Python programming language*
- d) *Advance knowledge of Power BI*

Workplan: *The work plan is part of the WSmart Route+ Project, Task 5 - Cost-Benefit Analysis:*

- a) *Analyze data from collections carried out over the last 4 years in an ERSUC municipality (project partner).*
- b) *Study four optimization scenarios:*
 - a. *Optimization of collection frequencies (static routes)*
 - b. *Optimization of circuits (static routes)*
 - c. *Selecting the waste containers to be sensorized (dynamic routes)*
 - d. *Total network sensorization (dynamic routes)*

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 Centre for Management Studies of Instituto Superior Técnico, under the scientific supervision of Prof. Tânia Rodrigues Pereira Ramos.

Duration: The research fellowship(s) will have the duration of 6 months. It's expected to begin in August 2024, and may be eventually renewed up to the maximum of 12 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: The selection methods will be the following:

- a) *Curriculum evaluation (70%)*



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b) *Motivation letter (30%)*

Individual interview. If the jury considers it pertinent, interviews will be necessary to complement the candidates' curriculum information and motivation letter.

Composition of the selection Jury: Tânia Rodrigues Pereira Ramos; Ana Paula Barbosa-Póvoa; Diana Jorge.

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 July 24 until August 6, 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: cegist@tecnico.ulisboa.pt



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