

**Research Studentships (for PhD students)**

Applications are open for one (1) Research Studentship(s), within the framework of project PTDC/GES-TRA/3353/2020 - “**Mobility as a Service and Socio-Territorial Inequalities**”, financed by national funds through FCT/MCTES (PIDDAC) with the financial support of FCT/MCTES (PIDDAC), under the following conditions:

**Scientific Area:** Sistemas Urbanos e Regionais

**Admission Requirements:** to be enrolled in a PhD program at IST

**Workplan:**

MASTI will specifically research the relationship between Mobility-as-a-Service (MaaS) and Socio-Territorial Inequalities (STIs), where the Lisbon Metro Area (LMA) is the case study. The project will answer 2 main questions:

- 1) Is MaaS contributing to a reduction or an increase in existing STIs?
- 2) Can MaaS contribute to a reduction of STIs and support more sustainable travel patterns?

The candidate will contribute to answering both answers, more specifically on the following topics:

- Which are the resources needed to access MaaS?
- Does MaaS impacts well-being?
- What are the main outcomes of implementing MaaS?
- What are the main variables in MaaS governance?

The tasks to be developed will include:

- Literature review about MaaS impacts, real-world applications and governance.
- Analyze and clean survey data from the project, where the candidate will identify travel patterns, transportation costs and conduct statistical analysis for evidence-based policy suggestions.
- Conduct an accessibility assessment in the Lisbon Metropolitan Area to measure the potential coverage of a full-MaaS system, considering the location of educational, health, leisure and work locations, as well as the built environment.
- Organize a workshop with transport stakeholders from three municipalities from the Lisbon Metro Area (LMA), who are interested in implementing MaaS (or transport services that relate to the MaaS concept). This qualitative approach will complement the quantitative approach.
- Model and forecast the demand for shared mobility services in LMA and identify new possible areas of operation that would improve overall accessibility.
- Participate on the coordination and dissemination of the project results, by drafting and submitting academic papers to relevant conferences and journals (included in the Clarivate and Scopus citation systems).

These tasks will be part of the PhD research of the candidate who will focus on one research problem and objective of the MASTI project.

**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 CERIS (Civil Engineering Research and Innovation for Sustainability) of IST-ID, under the scientific supervision of Prof. Filipe Manuel Mercier Vilaça e Moura.

**Duration:** The research fellowship(s) will have the duration of 6 months. It's expected to begin in March/2023, and may be eventually renewed up to the maximum of 18 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 € 1.144,64, being the payment method an option of the Fellow by Wire Transfer/Check.

**Selection methods:** The selection methods will be the following:

(1) Curriculum Evaluation - CE

- a. It is mandatory that the candidate:
  - i. Has a master's degree in Transportation or Civil Engineering.
  - ii. Developed a master dissertation in a topic related to Civil Engineering (preferably, transportation).
  - iii. Speaks and writes fluently in English.
  - iv. Has advanced skills in the use of descriptive statistics and inference tools.
  - v. Scientific papers published in relevant journals of transportation or presented research in transport-related conferences will be positively valued, although not mandatory.
- b. Teaching experience of the candidate will be positively valued, although not mandatory.

(2) Motivation letter – ML

- a. The candidate should explain compellingly why she, or he, has an adequate personal profile and CV to participate in the research project and she, or he, deserves to be selected more than other candidates.

(3) Individual Interview - II

- a. The English proficiency of the candidate will be tested and the candidates' knowledge in transport and modeling techniques will be evaluated.
- b. The interview will be conducted in person at Instituto Superior Técnico, or via Zoom, in the case of candidates living outside the Lisbon Metropolitan Area, in a meeting to be scheduled at the jury's convenience.

Each evaluation component is scored between 0 and 100 points (inclusive), where the final score (FS) for seriation of candidates is:  $FS = 70\% \times CE + 10\% \times ML + 20\% \times II$ . The candidate with the highest final score will be selected.

**Composition of the selection Jury:**

- Filipe Moura (Associate Professor)
- Luís Picado Santos (Full Professor)
- José Neves (Assistant Professor)

**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 March 1 until March 14, 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) academic degree certificate, where applicable; iv) proof of enrollment at an academic degree course (PhD); v) motivation letter;

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