

**CALL FOR ONE RESEARCH FELLOWSHIPS FOR MASTERS**

Applications are open for 1 research fellowships for Masters (bolsa de mestre), within the framework of project/R&D institution 1801P.00850.1.01 - LARGESCALE – 32474 IST-ID PTDC/CCI-CIF 32474/2017, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

**Scientific Area:** Electrical Engineering or Computer Science

**Admission Requirements:** master degree in Electrical and Computer Engineering or equivalent; excellent spoken and written English skills is mandatory; experience in the creation and programming of mobile UIs, etc.; experience in programming (e.g. C, C++, Java, Python) and 3D design (e.g. MAX, Fusion 360); supporting the production of scientific publications and interest in future PhD thesis (ideal, but not compulsory).

**Short description of the project:** LARGESCALE is multidisciplinary project studying: (i) tourist and travel mobility on land and ocean using the sensor based data; and (ii) affective analysis of informal learning experiences. Collected data inquiries will be used to: (1) observe, predict and impact tourist's mobility patterns; (2) create novel digital virtual tourism products as interactive, exploratory Location-based Augmented Reality Gadgets (LARGs); (3) promote local biodiversity (including marine megafauna), arts and crafts as tourism products of Madeira and Lisbon regions, (4) create impact on IoT devices used for biodiversity monitoring and awareness. LARGs will be collected through wearable/mobile applications, using geolocation and special POI sensors, and will serve to promote sustainable travel and well-being.

**Workplan:** The selected candidate will work in close collaboration with other members of the interdisciplinary team including participants from HCI, Interaction Design, Computer Engineering. Applicant should participate in deployment, maintenance and research evaluation of applied LARGs in situ. Activities will include:

Development, testing and prototyping of Location-based Augmented Reality Gadgets (LARGs) using participatory design sessions using experimental prototyping of the LARGs experiences. Leading to the production of 3 mobile/wearable apps (iOS or Android).

**Legislation and Regulations:** Lei n.º 40/2004, de 18 de agosto (Estatuto do Bolseiro de Investigação Científica) (*Statute of Scientific Research Fellow, approved by Law n. 40/2004, of August 18*); Regulamento de Bolsas de Investigação da Fundação para a Ciência e a Tecnologia em vigor (*Research Fellowships Regulation of the Foundation for Science and Technology in force*) ([www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf](http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf)); e Regulamento de Bolsas de investigação do IST-ID (Research Fellowships Regulation of IST-ID).

**Workplace:** The work will be developed at Institute for Systems and Robotics (ISR-Lisbon) at the Instituto Superior Técnico, under the scientific supervision of Dr. Nuno Nunes.

**Duration:** The research fellowship will have the duration of 12 months, with the possibility of renewal for additional periods for a period never after to the project's end which is expected to be 30/09/2021.

**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 € 980, being the payment method an option of the Fellow by Wire Transfer/Check.

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

- Educational background and graduation (CV) (60%)
- Technology related skills relevant for the work plan (CV and motivation letter) (40%)

Evaluation based on the scale: Excellent (4), Good (3) Satisfactory (2), and Poor (0). In case of equally qualified candidates, interviews will be conducted and recommendations from previous supervisors will be considered, as well as a candidate's perceived fit and potential contribution to the project.

**Composition of the selection Jury:** Duarte Nuno Nunes; João Sanches; Luís Custódio

**Announcement/ notification of the results:** The highest scoring candidate will be notified by email as well as all other candidates. After being notified, candidates have 10 work days to present a claim by email.

**Application deadline and formalization:** The call is open from 22/11/2018 until 05/12/2018.

It is mandatory to formalize applications in English with the submission of the following documents: B1 Form – Fellowship application (<http://ist-id.pt/documentos/bolsas-de-investigacao/>) *Curriculum Vitae (including research experience, academic qualifications and final grades)*, *academic degree certificate*, *motivation letter* and *Link to online portfolio or related website*. Optional recommendation letters can contribute positively to the candidate evolution. Applications must be submitted to the email: [nunojnunes@me.com](mailto:nunojnunes@me.com)