(BL8/2022-IST-ID)

Research Studentships (for students of a course that does not award an academic degree)

Applications are open for one Research Studentship (for students of a course that does not award an academic degree), within the framework of project 1801P.00753.1.01 DECENTER financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Systems, Decision and Control

Admission Requirements:

a) to hold a bachelor or master degree and be enrolled at a course that does not award an academic degree and it is integrated in the educational project of a higher education institution, performed in association or cooperation with one or several R&D units;

b) not to exceed with this contract, including the possible renovations, an accumulated period of two years in this type of studentship, continuously or with interruptions.

c) Solid knowledge of modelling and control of autonomous marine robotic vehicles, and experience in robotic systems implementation using ROS.

d) preference will be given to candidates with at least one scientific publication in a relevant conference.

Workplan: The proposed work entails the following objectives: i) study and documentation of algorithms for cooperative control based on acoustic sensor measurements for autonomous robotic vehicles, applicable to MEDUSA and FUSION class vehicles, property of IST-ID; ii) development of software for implementing these new algorithms and integrate them in the software architecture used at the marine robotics group of ISR/IST-ID; iii) Perform experimental tests in a realistic environment conducing to the submission of a scientific paper to a specialty journal.

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 ISR of IST-ID, under the scientific supervision of Doctor David Cabecinhas.

Duration: The research fellowship will have the duration of five months. It's expected to begin in February 2022, and may be eventually renewed.

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 € 1104,64, being the payment method an option of the Fellow by Wire Transfer.

Selection methods: The selection methods will be the following: The selection methods will be the following: Curriculum evaluation and individual electronic interview of the first two candidates, with the respective weight of 60% and 40%.

Composition of the selection Jury:

- Professor Pedro Tiago Martins Batista, nº mecanográfico 4388

- Doutor David Alexandre Cabecinhas, nº mecanográfico 4610

- Prof. António Manuel dos Santos Pascoal, nº mecanográfico 1814

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 17 until 28 January 2022.

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 a course that does not award an academic degree; v) motivation letter; vi) declaration on honour that the applicant does not exceed with this contract an accumulated period of two years in this type of studentship, continuously or with interruptions.

Applications must be submitted to the email*:* hsantana@isr.tecnico.ulisboa.pt