

## CALL FOR APPLICATIONS

### Job:

<b>Job reference:</b>	AE2017-0138 (UNEXMIN - CRAS) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
<b>Position:</b>	Post-Doc Grants (BPD)
<b>City:</b>	Porto
<b>Research field:</b>	Main: ENGINEERING Sub:

### Job summary:

#### INESC TEC is accepting applications to award 1 Postdoctoral Grant

<b>Project:</b>	Autonomous Underwater Explorer for Flooded Mines
<b>Scientific Advisor:</b>	Eduardo Silva
<b>Duration Grant:</b>	from 2017-07-01 to 2017-12-31 (6) . The grant may be renewed for additional periods up to the maximum duration of the project or the duration of the grant for which the candidate was selected. It can also be renewed due to another project provided that it is entirely or partly related to the work area in the call and that it contributes to the ongoing training.
<b>Location:</b>	INESC TEC, Porto, Portugal

### Job description:

**Work Area:** Underwater Robotics

**Project overview:** Development of autonomous robot for exploration of flooded mines with integration of sensors, system of perception and navigation, system of control and exploration. It includes systems design and implementation, testing and production of technical documentation and scientific publications. Team integration with mechanical development valves, design and implementation of advanced hardware solutions, artificial vision, sensory navigation and fusion, embedded processing and software development.

**Objectives:** The objective of this work is the development of an autonomous robot for the exploration of flooded mines, namely integration of sensors, perception and navigation system, mine control and exploitation system.

<b>Academic Qualifications:</b>	PhD in Elect. Computers Eng., Computers or Computer Science Eng., Geotechnical Eng. & related
<b>Minimum Profile required:</b>	Programming experience, knowledge of electronics and embedded systems
<b>Preference factors:</b>	Experience in Robotics and experimental work, ability to work as a team. Experience in development of systems perception and navigation, programming experience in ROS and Linux.
<b>Monthly Grant:</b>	€1495,00 according to the Stipends values of the grants awarded directly by the FCT, paid by bank transfer. The grant holder may also benefit from additional incomes in the sequence of a quarterly evaluation process (Clauses 12 and 13 of INESC TEC Grants Regulation and Annex II), up to a maximum of 50% of the monthly grant.

**Project duration:** 2016-02-01 a 2019-10-31

**Funding Entity:** CE

The grant contract shall be submitted to the legislation concerning the Research Grant Holder Statute , approved by Law n 40/2004, dated 18 August, amended and republished by Decree-Law No. 202/2012 of 27 August and amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of January 29, and Decree-Law No. 89/2013 of July 9 as well as by INESC TEC Grant Regulation , approved by FCT - Fundação para a Ciência e a Tecnologia (Science and Technology Foundation) in 12 January 2011 and FCT current Grant Regulation.

Additional information about [INESC TEC Grants Regulation](#) and relating annexes may be found at [www.inesctec.pt/grants](http://www.inesctec.pt/grants)

**Selection Criteria:** Curriculum evaluation based on the criteria referred to in Clause 7º [INESC TEC Grants Regulation](#) and will include individual interviews in the final stage of the selection process, with its valuation: 85% curriculum evaluation (35% CV, 30% scientific domains and 20% Expertise) and 15% interview.

**Selection Jury:**  
President of the Jury: Prof. Eduardo Silva;  
Permanent Member: Prof. Hugo Miguel Silva;  
Substitute Member: Prof. André Dias;

**Notification of results:** The results of the selection process will be disseminated to interested parties by mail, as referred to in Clause 8 of [INESC TEC Grants Regulation](#).

**Application period:** From 2017-06-05 to 2017-06-20

**Application submission:** Fill in the electronic form in the section [Work with Us](#) at [www.inesctec.pt](http://www.inesctec.pt), attaching the Curriculum Vitae, certificate of qualifications and other supporting documents relevant to the final assessment.