

## CALL FOR APPLICATIONS

### Job:

<b>Job reference:</b>	AE2016-0356 (HDR4RTT - CSIG) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
<b>Position:</b>	Research Grants (BI)
<b>City:</b>	INESC TEC, Vila Real, Portugal
<b>Research field:</b>	Main: COMPUTER SCIENCE Sub: Programming

### Job summary:

**INESC TEC is accepting applications to award 1 Research Grant for MSC.**

<b>Project:</b>	Real time Tracking and display of multiple objects in extreme lighting conditions
<b>Scientific Advisor:</b>	Maximino Bessa
<b>Duration Grant:</b>	from 2017-01-01 to 2017-12-31 (12) . 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, Vila Real, Portugal

### Job description:

<b>Work Area:</b>	Informatics > Digital Image Processing > HDR
<b>Project overview:</b>	Tracking multiple objects, in real time, using computer vision algorithms is a very demanding and challenging task especially when this has to be accomplished in an extreme light condition environment. This project will research and develop new high dynamic range (HDR) algorithms to robustly track and display, in real-time, multiple objects in extreme lighting conditions in order to deliver a step change in information quality from video data interrogation.
<b>Objectives:</b>	The research fellow will carry the following research activities: - Help to build a HDR system that is able to capture a very high dynamic range; - Implement state-of-the-art tracking algorithms that takes HDR imagery as input; - Capture HDR footage with the system. - Annotate video sequences - Publish results in leading conferences or journals.

<b>Academic Qualifications:</b>	MSc in computer science.
<b>Minimum Profile required:</b>	Programming skills in C/C++/C#. English: good language skills both written and oral.
<b>Preference factors:</b>	Knowledge of computer vision systems, HDR, tracking algorithms, video encoding.
<b>Monthly Grant:</b>	€980,00 (MSC) 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.

<b>Project duration:</b>	2016-09-30 a 2018-09-29
<b>Funding Entity:</b>	ONRG
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 <a href="#">INESC TEC Grants Regulation</a> and relating annexes may be found at <a href="http://www.inesctec.pt/grants">www.inesctec.pt/grants</a>	

<b>Selection Criteria:</b>	Curriculum evaluation based on the criteria referred to in Clause 7º <a href="#">INESC TEC Grants Regulation</a> and will include individual interviews in the final stage of the selection process, with its valuation: 70% curriculum evaluation (30% CV, 25% scientific domains and 15% Expertise) and 30% interview.
<b>Selection Jury:</b>	President of the Jury: Prof. Maximino Bessa; Permanent Member: Prof. Alan Chalmers; Substitute Member: Prof. Vitor Manuel De Jesus Filipe;
<b>Notification of results:</b>	The results of the selection process will be disseminated to interested parties by mail, as referred to in Clause 8 of <a href="#">INESC TEC Grants Regulation</a> .
<b>Application period:</b>	From 2016-12-14 to 2016-12-28
<b>Application submission:</b>	Fill in the electronic form in the section <a href="#">Work with Us</a> at <a href="http://www.inesctec.pt">www.inesctec.pt</a>