

CALL FOR APPLICATIONS

Job:

Job reference:	AE2017-0236 (INESC TEC LA - LIAAD) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Position:	Scientific Initiation Grants (BIC)
City:	Porto
Research field:	Main: COMPUTER SCIENCE Sub: Programming, Computer Systems, Database management, Informatics

Job summary:

INESC TEC is accepting applications to award 1 Scientific Initiation Grant	
Project:	INESC TEC - EEA/50014 (POCI-01-0145-FEDER-006961)
Scientific Advisor:	Rui Lourenço Lopes
Duration Grant:	from 2017-10-01 to 2017-12-31 (3) eventually renewable.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area:	Data Science for Oil and Gas
Project overview:	The process of exploring and exploiting Oil and Gas (O&G) generates a lot of data that can bring more efficiency to the industry. With this data come the challenges of managing the data growth, integrating intelligence tools, and analyzing the data to glean useful insights. The goal of this work is to develop and improve the automatic classification and segmentation of the lithology (subsurface rock types) using data collected from the exploration of a Portuguese basin.
Objectives:	In particular, the expected results of this work include: a system for the automatic segmentation and classification of rock types based on well log data collected during drilling, possibly integrated with the seismic data from the same region of the wells; a scientific report/article describing the methodology, and analysing the performance of the developed system.

Academic Qualifications:	1st cycle university course frequency in Geology, Computer Science or related areas.
Minimum Profile required:	1st cycle university course frequency in Geology, Computer Science or related areas.
Preference factors:	Knowledge of data science, programming and / or stratigraphic analysis will be valued in Geology candidates. Computer Science candidates, knowledge of Geology and data science will be valued.
Monthly Grant:	€385,00 according to the Stipends values of the grants awarded directly by the FCT, paid by bank transfer. The grant holder can receive additional payments by participating in complementary contracts or projects that contribute to the work plan (Clauses 12 and 13 of INESC TEC Grants Regulation and Annex II), in accordance with paragraph 4 of article 5 of Research Grant Holder Statute, approved by Law nº 40/2004, dated 18 August, up to a maximum of 50% of the monthly grant.

Project duration:	2015-01-01 a 2017-12-31
Funding Entity:	ERDF - European Regional Development Fund through the Operational Programme for Competitiveness and Internationalisation - COMPETE 2020 Programme, and by National Funds (PIDDAC) through the FCT/MCTES within project POCI-01-0145-FEDER-006961.
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	

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 (50% CV, 25% scientific domains and 10% Expertise) and 15% interview.
Selection Jury:	President of the Jury: Prof. Rui Lourenço Lopes; Permanent Member: Prof. Alípio Jorge; Substitute Member: Prof. João Gama;
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 2017-09-15 to 2017-09-28
Application submission:	Fill in the electronic form in the section Work with Us at www.inesctec.pt , attaching the Curriculum Vitae, certificate of qualifications and other supporting documents relevant to the final assessment.