

CALL FOR APPLICATIONS

Job:

Job reference:	AE2017-0306 (INESC TEC LA - CPES) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Position:	Research Grants (BI)
City:	Porto
Research field:	Main: ENGINEERING,MATHEMATICS Sub: Electrical engineering,Applied mathematics

Job summary:

INESC TEC is accepting applications to award 1 Research Grant for MSC.	
Project:	INESC TEC - EEA/50014 (POCI-01-0145-FEDER-006961)
Scientific Advisor:	Ricardo Jorge Bessa
Duration Grant:	from 2018-01-01 to 2018-12-31 (12)
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Power Systems
Project overview: The increasing monitoring in distribution networks is enabling the development and application of advanced asset management strategies. The Grant Holder will conduct data analysis on electrical transformers data and apply data analytics algorithms to design prescriptive and predictive analysis.
Objectives: Apply data mining techniques for asset management Develop health indices for electrical transformers. Causality analysis of the transformers operating conditions.

Academic Qualifications:	Master Degree Electrical Engineering/Industrial/Mechanical/Mathematics
Minimum Profile required:	Background on fundamental data mining methods; Background on basic power systems concepts Good Python and R programming skills.
Preference factors:	Background on multi-criteria decision-making; Knowledge about risk and reliability estimation Fluency in English
Monthly Grant:	€980,00 (MSC) 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 n 40/2004, dated 18 August, up to a maximum of 50% of the monthly grant.

Project duration:	-
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 7 INESC TEC Grants Regulation and will include individual interviews in the final stage of the selection process, with its valuation: 90% curriculum evaluation (40% CV, 30% scientific domains and 20% Expertise) and 10% interview. Only those candidates who obtain at least 70% in the curricular evaluation (CV + Scientific Domain + Experience) will be called for the interview.
Selection Jury:	President of the Jury: Prof. Ricardo Jorge Bessa; Permanent Member: Prof. Bernardo Silva; Substitute Member: Prof. Jorge Correia Pereira;
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 2017-11-21 to 2017-12-28
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.