

CALL FOR APPLICATIONS

Job:

Job reference:	AE2019-0314 (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 Sub: Electrical engineering

Job summary:

INESC TEC is accepting applications to award 1 Research Grant for MSC .	
Project:	INESC TEC-UID/EEA/50014
Scientific Advisor:	David Emanuel Rua
Duration Grant:	from 2020-01-01 to 2020-12-31 (12) eventually renewable.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area:	Power Systems
Project overview:	The objective is to develop energy models and algorithms for the predictive operation of buildings, systems and devices. The work will involve the implementation of physical and statistical models regarding the use of energy, existing flexibility for energy optimization schemes and its implementation in software modules that will be part of an energy management platform for buildings.
Objectives:	Define different energy models for predictive operation; Design and implement optimization algorithms; Publish results in conferences and scientific journals.

Academic Qualifications:	Master degree in Electrical Engineering;
Minimum Profile required:	Experience in the implementation of energy models in optimization algorithms and in the representation of flexibility for devices and buildings Programming skills Fluency in English
Preference factors:	Knowledge in Python, C/C++; Experience in integrating applications in embedded systems;
Monthly Grant:	€989,70 (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.

Project duration:	-
Funding Entity:	Funded by National Funds through FCT - Portuguese Foundation for Science and Technology, I.P., in the scope of the project UID/EEA/50014
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. David Emanuel Rua; Member: Prof. Bernardo Silva; Member: Prof. Leonel Magalhães Carvalho;
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 2019-11-18 to 2019-11-29
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.