

## CALL FOR APPLICATIONS

### Job:

<b>Job reference:</b>	AE2019-0187 ( INESC TEC LA - CPES ) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
<b>Position:</b>	Research Grants (BI)
<b>City:</b>	Porto
<b>Research field:</b>	Main: ENGINEERING Sub: Electrical engineering, Computer engineering

### Job summary:

<b>INESC TEC is accepting applications to award 1 Research Grant for MSC .</b>	
<b>Project:</b>	INESC TEC - UID/EEA/50014/2019
<b>Scientific Advisor:</b>	Ricardo Jorge Bessa
<b>Duration Grant:</b>	from 2019-09-16 to 2020-09-15 (12) eventually renewable.
<b>Location:</b>	INESC TEC, Porto, Portugal

### Job description:

<b>Work Area:</b>	Computational intelligence for forecasting and optimization in energy systems
<b>Project overview:</b>	The technological revolution in the energy sector is producing large volumes of data with valuable impact in the business and functional processes of system operators, generation companies and grid users. The research fellow will develop innovative data-driven techniques (e.g., reinforcement learning) for different optimization problems (e.g., energy efficiency) and join a multidisciplinary team referenced internationally for its high expertise in energy analytics, within the context of smart grids.
<b>Objectives:</b>	The tasks involve the development of algorithms for load and storage device management by applying optimization methods. Specifically, the following objectives should be accomplished: - Conceptualize, develop and implement innovative computational intelligence algorithms - Publish papers in international conferences and journals - Promote the transition to a distributed intelligence paradigm

<b>Academic Qualifications:</b>	Master degree in Electrical Engineering, Computer Science, Operations Research or similar
<b>Minimum Profile required:</b>	- Advance knowledge in machine learning - Advance knowledge in programming (e.g., Python) - Fluent in English (spoken and written)
<b>Preference factors:</b>	- Experience with energy systems related problems - Experience with optimization techniques (mathematical, meta-heuristics or data-driven) - Experience with TensorFlow or PyTorch
<b>Monthly Grant:</b>	€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.

<b>Project duration:</b>	-
<b>Funding Entity:</b>	Funded by National Funds through FCT - Portuguese Foundation for Science and Technology, I.P., in the scope of the project UID/EEA/50014/2019
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 7 <a href="#">INESC TEC Grants Regulation</a> 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.
<b>Selection Jury:</b>	President of the Jury: Prof. Ricardo Jorge Bessa; Member: Prof. Jorge Correia Pereira; Member: Prof. Clara Sofia Gouveia;
<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 2019-08-06 to 2019-08-20
<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> , attaching the Curriculum Vitae, certificate of qualifications and other supporting documents relevant to the final assessment.