

## CALL FOR APPLICATIONS

### Job:

<b>Job reference:</b>	AE2017-0036 (ESGRIDS - 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: MATHEMATICS Sub: Applied mathematics

### Job summary:

<b>INESC TEC is accepting applications to award 1 Research Grant for MSC.</b>	
<b>Project:</b>	Desenvolvimento sustentável da rede elétrica inteligente
<b>Scientific Advisor:</b>	Ricardo Jorge Bessa
<b>Duration Grant:</b>	from 2017-04-01 to 2018-03-31 (12) - Eventually renewable until the project conclusion or budget.
<b>Location:</b>	INESC TEC, Porto, Portugal

### Job description:

<b>Work Area:</b>	Time Series Forecasting for Electrical Networks
<b>Project overview:</b>	The implementation of smart grid paradigm requires the development of predictive algorithms capable of handling large volumes of data. The Grant Holder will work on the development of new forecasting algorithms for renewable energy (wind, solar) and electricity consumption, focusing on their integration and demonstration inside network operation tools.
<b>Objectives:</b>	- Identification of the needs and requirements of the industry; - Development and implementation of innovative forecasting algorithms; - Dissemination of results in conferences and journals.

<b>Academic Qualifications:</b>	Master Degree in Mathematics or similar.
<b>Minimum Profile required:</b>	- Background on time series forecasting methods; - Fluency in English (spoken and written); - Good C, Python and Java programming skills.
<b>Preference factors:</b>	- Background on statistics and artificial intelligence; - Experience in renewable energy forecasting methods; - Experience in the use of distributed computing;
<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 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.

<b>Project duration:</b>	2017-01-01 a 2019-12-31
<b>Funding Entity:</b>	FCT (POCI-01-0145-FEDER-016434)
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: 90% curriculum evaluation (40% CV, 30% scientific domains and 20% Expertise) and 10% interview.
<b>Selection Jury:</b>	President of the Jury: Prof. Ricardo Jorge Bessa; Permanent Member: Prof. Manuel Matos; Substitute Member: Prof. David Emanuel Rua;
<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 2017-02-20 to 2017-03-20
<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>

