

CALL FOR APPLICATIONS

Job:

Job reference:	AE2019-0292 (Smart4RES - 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:	Next Generation Modelling and Forecasting of Variable Renewable Generation for Large-scale Integration in Energy Systems and Markets
Scientific Advisor:	Ricardo Jorge Bessa
Duration Grant:	from 2020-04-01 to 2021-03-31 (12) eventually renewable until the project conclusion or budget.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Data-driven predictive management of electrical grids

Project overview: Smart4RES will propose a holistic approach, that covers the whole model and value chain related to RES forecasting from weather forecasting up to end-use applications. To achieve this vision, The Grant Holder will develop data-driven solutions for use cases related to predictive and real-time operation of electrical grids, involving the modelling and integration of RES forecast uncertainty.

Objectives: Development of data-driven algorithms for predictive optimization. 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

Academic Qualifications:	Master degree in Electrical Engineering or similar
Minimum Profile required:	Advance knowledge in power systems Experience in the application of artificial intelligence techniques to the electrical sector Fluent in English (spoken and written)
Preference factors:	Advance programming skills in Python Experience with deep learning techniques
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:	2019-11-01 a 2023-04-30
Funding Entity:	CE
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.
Selection Jury:	President of the Jury: Prof. Ricardo Jorge Bessa; Member: Prof. Bernardo Silva; Member: Prof. Clara Sofia Gouveia;
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.