

CALL FOR APPLICATIONS

Job:

Job reference:	AE2019-0225 (Smart4RES - CPES) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Position:	Post-Doc Grants (BPD)
City:	Porto
Research field:	Main: ENGINEERING Sub: Control engineering,Electrical engineering,Systems engineering

Job summary:

INESC TEC is accepting applications to award 1 Postdoctoral Grant .

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 2019-11-15 to 2020-11-14 (12) . The grant may be renewed for additional periods up to the maximum duration of the project or the duration of the grant for which the candidate was selected. It can also be renewed due to another project provided that it is entirely or partly related to the work area in the call and that it contributes to the ongoing training.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Power and Energy Systems

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: The tasks involve the 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:	Doctoral degree in Physics, Electrical Engineering or Operations Research or similar
Minimum Profile required:	- Advance knowledge in applied mathematics - Advance knowledge in programming - Fluent in English (spoken and written)
Preference factors:	- Experience with energy systems related problems - Experience with optimization techniques
Monthly Grant:	€1509,80 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 2019-10-23 to 2019-11-06
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.