

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2023-0010 (SCALE - CPES) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: ENGINEERING Sub: Electrical engineering

Job summary:

INESC TEC is accepting applications for 1 RESEARCHER job in the Smart Grids	
Project:	Scalable Centralized Grid Protection, Automation and Control
Scientific Advisor:	Clara Sofia Gouveia
Duration of the contract:	from 2023-02-13 to 2023-06-30, eventually renewable.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Smart Grids
Project overview: - Identification of control and protection requirements for distribution networks; - Distributed energy resources modelling for network studies; - Development smart grid tools for distribution networks with high integration of distributed energy resources.
Objectives: - Identification of network management and control strategies for distribution networks with large scale integration of distributed energy resources; - Modelling and simulation of distributed energy resources (Renewable based generation, electric vehicle and energy storage) for network analysis; - Development of new network management, control and protection strategies for distribution networks; - Development of activity in a laboratorial scale test system for distribution networks based in a real-time digital simulator.

Academic Qualifications:	PhD or Master's degree in energy systems or similar. Preference will be given to candidates with a PhD degree and only candidates with a Master's degree will be hired if PhD candidates do not apply, or if they do apply, that they are not from the intended training area and/or do not have the experience mentioned above.
Minimum profile required:	- Experience renewable based system dynamic modelling or in modelling data from the protection systems - Programming experience (Python, etc.)
Preference factors:	- Experience in machine learning algorithms - Experience in projects for micro-grids - Fluency in English (spoken and written)

Funding Entity:	funded by Fundo Europeu de Desenvolvimento Regional (FEDER) and by the Operational Programme for Competitiveness and Internationalisation, project (reference POCI-01-0247-FEDER-047210)
Type of contract:	fixed-term contract
The hiring shall be governed by what is stipulated in the legislation in force regarding fixed-term employment contracts and by INESC TEC norms.	

Selection criteria:	The selection of the candidates will be based on the following criteria, in descending order of consideration: a) Relevant Curriculum in the concerned field of this tender b) Proven experience.
Selection Jury:	President of the Jury: Prof. Clara Sofia Gouveia; Member: Prof. Ricardo Jorge Bessa; Member: Prof. Jorge Correia Pereira;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2023-01-13 to 2023-01-26
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us