

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2023-0266 (ATE - 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 Grid Protection and advanced automation	
Project:	Alliance for Energy Transition
Scientific Advisor:	Clara Sofia Gouveia
Start Date:	2023-09-15
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area:	Smart Grid Protection and advanced automation
Project overview:	- Identification of control and protection requirements for distribution networks; - Distributed energy resources modelling for network studies; - Short-circuit simulation and protection coordination studies; - Development smart grid tools for distribution networks with high integration of distributed energy resources; - Application integration and testing in HIL laboratory infrastructure.
Objectives:	- Identification of network management and control strategies for distribution networks with large scale integration of distributed energy resources; - Development of new network management, control and protection strategies for smart grids; - Develop adaptive protection functionalities for smart grids; - Development of a laboratorial scale test system for distribution networks based in a real-time digital simulator.

Academic Qualifications:	Master in electrical and computer engineering; power systems and other related areas
Minimum profile required:	- Experience on the development of methodologies for coordination of protection devices; - Experience on short-circuit studies considering the modelling of distributed energy resources; - Modelling and simulation software (Matlab Simulink, etc.); - Programming experience (Matlab, Python, etc.).
Preference factors:	- Experience in optimization algorithms and meta-heuristics; - Experience in power system protection related projects; - Fluency in English (spoken and written).

Funding Entity:	ATE funded by IAPMEI with reference 56 Co-financed by Component 5 - Capitalization and Business Innovation, integrated in the Resilience Dimension of the Recovery and Resilience Plan within the scope of the Recovery and Resilience Mechanism (MRR) of the European Union (EU), framed in the Next Generation EU, for the period 2021 - 2026.
Type of contract:	Uncertain term contract The hiring shall be governed by what is stipulated in the legislation in force regarding uncertain 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. Jorge Correia Pereira; Member: Prof. Ricardo Jorge Bessa;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2023-07-13 to 2023-07-26
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us