

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2023-0269 (ATE - CPES) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: COMPUTER SCIENCE,ENGINEERING,MATHEMATICS Sub: Informatics,Electrical engineering,Applied mathematics,Programming,Statistics

Job summary:

INESC TEC is accepting applications for 2 RESEARCHER job in the Computer Science - Smart Grids

Project:	Alliance for Energy Transition
Scientific Advisor:	Gil Silva Sampaio
Start Date:	2023-09-26
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Computer Science - Smart Grids

Project overview: The Alliance for Energy Transition (AET) project aims to develop and industrialize new technologies to support the decarbonization of society, taking advantage of technological and scientific knowledge in the field of Energy in Portugal. In this context, the selected candidate will be integrated into a work team dedicated to the theme of smart grid management, covering the entire value chain, from promoting the integration of more renewable sources to the incentives created with consumers to decarbonize electrical energy consumption. Counting with the participation of leading entities in the commercialization of software solutions for the management of electricity networks, as well as essential technology takers (e.g., network operators), the aim is to mature recent research initiatives in smart grids management and demonstrate its potential for industrialization.

Objectives: Specify use cases and strategies for utilizing big data as an alternative to traditional approaches; Development and implementation of artificial intelligence algorithms for managing distributed resources in electrical distribution grids; Implementation of data management and communication components for the industrialization of the algorithms; Testing and demonstration in a real demonstration environment

Academic Qualifications:	Bachelor or Master in electrical and computer engineering; informatics; computer science; applied mathematics; other related
Minimum profile required:	- Advanced knowledge of a programming language (e.g., Python, R, C++)
Preference factors:	- Knowledge about machine learning algorithms and/or operations research; - Knowledge about electric power systems; - Experience in software and API development; - English fluency (written and spoken).

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. Ricardo Jorge Bessa; Member: Prof. Jorge Correia Pereira; Member: Prof. Clara Sofia Gouveia;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2023-07-20 to 2023-09-08
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us