

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2024-0378 (ATE - CPES) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: ENGINEERING,MATHEMATICS,COMPUTER SCIENCE Sub: Electrical engineering,Applied mathematics,Informatics

Job summary:

INESC TEC is accepting applications for 1 RESEARCHER job in the Power Systems	
Project:	Alliance for Energy Transition
Scientific Advisor:	Vasco Manuel Campos
Start Date:	2024-10-15
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Power Systems
Project overview: - Development of a platform to enable new energy efficiency and flexibility services for electricity end users, through automatic interface, support and decision systems - Definition of operational requirements of hybrid energy storage and generation systems, with inclusion of electricity market services and flexibility portfolio exploration; - Optimize the scheduling of controllable/dispatchable loads in coordination with local photovoltaic production; - Validation and benchmark of a potential energy management solution for optimal self-consumption services; - Dissemination of the work in international journals and/or conferences.
Objectives: - Optimize the scheduling of controllable/dispatchable loads in coordination with local photovoltaic production; - Validation and benchmark of a potential energy management solution for optimal self-consumption services; - Dissemination of the work in international journals and/or conferences.

Academic Qualifications:	Bachelor or Master in applied mathematics, computer science, informatics, electrical and electronic engineering or similar.
Minimum profile required:	- Previous academic background in electric power systems or similar; - Knowledge or experience of energy systems problems; - Experience in applying optimization algorithms to engineering problems.
Preference factors:	- Python and Machine Learning programming skills; - Knowledge of power system control and frequency response; - Experience with energy management system (EMS) development.

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.
Disability Incentive:	Candidates who present a degree of disability equal to or greater than 90% will benefit from an incentive (20) in the score of the CV Assessment. Candidates who present a degree of disability equal to or greater than 60% and less than 90% will also benefit from an incentive (10) in the score of the CV Assessment. Said score may, in these cases, exceed 100 points. Candidates must demonstrate the degree of disability during the application, namely through the submission of the Multi-Purpose Medical Certificate of Disability, issued in accordance with Decree-Law no. 202/96, of October 23 - currently in effect. Candidates must declare, in the application form, the type of disability used throughout the selection process, in order to proceed with the required adaptations.

Selection Jury:	President of the Jury: Ricardo Jorge Bessa; Member: Ignacio Gil; Member: Manuel Matos;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2024-09-13 to 2024-09-26
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us