

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2024-0379 (CPES-Geral - CPES) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: ENGINEERING Sub: Computer engineering,Electrical engineering,Electronic engineering

Job summary:

INESC TEC is accepting applications for 1 RESEARCHER job in the Electrical Engineering	
Scientific Advisor:	Ignacio Gil
Start Date:	2024-10-15
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Electrical Engineering
Project overview: The work to be carried out by the researcher falls within the context of planning the expansion of electrical power systems with high integration of renewable energy production, storage, and new loads such as electric vehicles and hydrogen production. The objective is focused on the development of simulation tools for the operation of power systems, both interconnected and isolated systems, for the quantification of costs and utilization of renewable energy. The tools will be used to define optimal reinforcement plans for power systems.
Objectives: - Development of simulation tools based on optimization algorithms and power flow analysis; - Testing and validation in case studies; - Dissemination of results and writing of technical reports.

Academic Qualifications:	Bachelor or Master in electrical and computer engineering; energy systems; other related.
Minimum profile required:	- Experience in electrical power systems and reliability assessment; - Use and parameterization of learning algorithms based on historical data (e.g. Artificial Neural Networks); - Programming skills in MATLAB and Python; - Fluency in English (spoken and written).
Preference factors:	- Experience in power system optimization and Sequential Monte Carlo Simulation; - Fluency in Portuguese (spoken and written).

Funding Entity:	
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: Manuel Matos; Member: Ignacio Gil; Substitute member: Jorge Correia Pereira;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2024-09-12 to 2024-09-25
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us