

## CALL FOR APPLICATIONS: RESEARCHER

### Job/position/grant:

<b>Job reference:</b>	AE2024-0442 ( NGS - CPES ) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
<b>Job/position/grant:</b>	RESEARCHER
<b>City:</b>	Porto
<b>Research field:</b>	Main: ENGINEERING Sub: Electrical engineering

### Job summary:

**INESC TEC is accepting applications for 1 RESEARCHER job in the Power Systems**

<b>Project:</b>	Agenda Mobilizadora das Baterias
<b>Scientific Advisor:</b>	Clara Sofia Gouveia
<b>Start Date:</b>	2024-11-26
<b>Location:</b>	INESC TEC, Porto, Portugal

### Job description:

**Work Area:** Power Systems

**Project overview:** - Develop dynamic simulation models for electrochemical energy storage systems, taking into account different energy storage technologies such as lithium-ion batteries and flow batteries. - Develop microgrid models for operation in isolated mode - Support the development of the microgrid test system, based on real-time simulation at INESC TEC's Smart Grids and Electric Vehicles laboratory.

**Objectives:** - Develop dynamic simulation models for electrochemical energy storage systems, taking into account different energy storage technologies such as lithium-ion batteries and flow batteries.

- Develop microgrid models for operation in isolated mode

- Support the development of the microgrid test system, based on real-time simulation at INESC TEC's Smart Grids and Electric Vehicles laboratory.

**Academic Qualifications:** Master in electrical and computer engineering; power systems and other related areas

**Minimum profile required:**

- Knowledge of power system
- Modelling and simulation software (Matlab Simulink, etc.)

**Preference factors:**

- Experience on microgrid operation in islanded mode
- Programming experience (Python, C, etc.)

**Funding Entity:** NGS funded by IAPMEI with reference 58 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:

- Relevant Curriculum in the concerned field of this tender
- 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.

<b>Selection Jury:</b>	President of the Jury: Clara Sofia Gouveia; Member: Cleberton Reiz; Member: Ricardo Jorge Bessa; Substitute member: Manuel Matos;
<b>Notification of results:</b>	The results of the selection process will be sent to the interested by electronic mail.
<b>Application period:</b>	From 2024-10-24 to 2024-11-08
<b>Application submission:</b>	Electronic form filling in <a href="http://www.inesctec.pt">www.inesctec.pt</a> in the section <a href="#">Work with Us</a>