

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2024-0236 (ATE - CPES) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: ENGINEERING,COMPUTER SCIENCE Sub: Electrical engineering

Job summary:

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

Project:	Alliance for Energy Transition
Scientific Advisor:	Justino Miguel Rodrigues
Start Date:	2024-08-15
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Power Systems

Project overview: We are looking for a Software Developer to join our smart grids and electric vehicles laboratory (SGEVL). The professional will be responsible for specifying and implementing software architectures for communication and management of conversion systems, as well as developing software for electric vehicle chargers according to specific standards and protocols. Additionally, the developer will implement a platform for managing electric vehicle infrastructure.

Objectives:

- Create scalable, efficient software solutions capable of supporting communication and management of conversion systems at
- Develop software according to specific standards and protocols for electric vehicle chargers, ensuring safety and interoperability.
- Develop a centralized and scalable platform to manage electric vehicle charging infrastructure, facilitating device monitoring and control.
- Establish a robust version control system, ensuring all software versions are validated, tested, and ready for production.

Academic Qualifications: Bachelor's or master's degree in computer engineering, Electrical and Computer Engineering or Computer Science, or related areas.

Minimum profile required:

- A minimum of 5-year experience in the area is required
- Experience in specification and implementation of software architectures (Git and Docker)
- Experience in Python and C/C++, and familiarity with relevant frameworks.
- Knowledge of communications schemes based on MODBUS (TCP/RTU), CAN, WebSockets and HTTP, data management using SQL.

Preference factors:

- Experience with communication standards for electric vehicles such as OCPP and ISO15118.
- Experience with hardware and software integration, especially in IoT contexts.
- Fluency in English (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:

- 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.

Selection Jury:	President of the Jury: Justino Miguel Rodrigues; Member: David Emanuel Rua; Member: Ricardo Jorge Bessa;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2024-06-27 to 2024-07-27
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us