INESCTEC

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2022-0252 (InterConnect - 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:	Interoperable Solutions Connecting Smart Homes, Buildings and Grids
Scientific Advisor:	David Emanuel Rua
Duration of the contract:	from 2022-10-01 to 2023-09-30, eventually renewable.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Power Systems

Project overview: Application of techniques for forecasting the use of electric vehicles. Implementation and validation of representative models of the operation of electric vehicles. Optimization of the scheduling and modulation of the charging of multiple electric vehicles. Integration of the developed software in a laboratory test platform and in a commercial platform.

Objectives: The EU project InterConnect will develop solutions for a digitalisation of buildings and the electrical system based on architectures for the internet of things (IoT) that, through several digital platforms, and using a universal ontology called SAREF, guarantee interoperability between equipment and systems, while ensuring the privacy and cybersecurity of the data of different users. This vacancy will focus on the development of algorithms and software for the management and control of electric vehicles.

Academic Qualifications:	Master degree in Electrical and Computer Engineering or Computer Science, Informatics, or similar.
Minimum profile required:	Advanced knowledge of energy models, data analysis techniques and optimization algorithms. Advanced programming skills.
Preference factors:	Experience using electric vehicle modeling techniques. Knowledge of relevant standards (IEC, ISO). Fluency in English and Portuguese (written and spoken).

Funding Entity:	funded by CE, project (reference 857237)
Type of contract:	fixed-term contract
The hiring shall be governed by what is stipulated in the legislation in force regarding fixed-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. David Emanuel Rua;
	Member: Prof. Manuel Matos;
	Member: Prof. Jorge Correia Pereira;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2022-08-03 to 2022-09-03
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us