

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2022-0294 (MAGPIE - CPES) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: ENGINEERING Sub: Electrical engineering

Job summary:

INESC TEC is accepting applications for 1 RESEARCHER job in the Digital tools for management of energy systems in ports	
Project:	sMArt Green Ports as Integrated Efficient multimodal hubs
Scientific Advisor:	Zenaida Mourão
Duration of the contract:	from 2022-11-01 to 2023-10-31, eventually renewable.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Digital tools for management of energy systems in ports
Project overview: Development of physical and data-based models of energy systems associated with electricity grid and port infrastructure; Description of use cases for innovative services for shore- and near-shore energy system solutions; Development of specifications of digital tools; Development of SW modules for backend and frontend; Integration of algorithms and mathematical models; Validation and testing of systems;
Objectives: The EU MAGPIE Project will develop digital solutions for energy and emissions management in European ports such as Rotterdam and Sines that will be integrated into a port digital twin to allow short and long term management of the various port systems optimally leading to the decarbonisation of its operation until 2050. State- of-the-art backend and frontend solutions will be developed, anchored in a reference architecture that will support the implementation of semantic models that ensure interoperability between the different digital systems of ports;

Academic Qualifications:	Master or bachelor degree in Electrical and Computer Engineering or Computer Science, Informatics, or similar.
Minimum profile required:	Experience in developing models of energy system and its components (supply and demand), Advanced knowledge in digital tools and platforms (e.g., docker, kubernetes, etc.), 'Experience in digital systems integration, 'Advanced programming knowledge
Preference factors:	Experience in using software development and production tools; Skills in implementing digital twin systems.; Fluency in English and Portuguese (written and spoken).;

Funding Entity:	funded by CE, project (reference 101036594)
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. Zenaida Mourão; Member: Prof. José Villar; Member: Prof. David Emanuel Rua;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2022-09-21 to 2022-10-05
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us