

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2022-0035 (BATERIAS2030 - 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 job in the Development of predictive control algorithms for energy communities with distributed energy storage.

Project:	As baterias como elemento central para a sustentabilidade urbana
Scientific Advisor:	Clara Sofia Gouveia
Start Date:	2022-03-01
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Development of predictive control algorithms for energy communities with distributed energy storage.

Project overview: Development of energy community energy management strategies considering the integration of distributed energy storage for both interconnected and islanded modes. Implementation and testing in both real pilot and in INESC TEC laboratorial facilities

Objectives: Analysis of the state of the art in optimal management of community energy storage and modelling of storages' system efficiency and degradation; Development of community energy management algorithms; Implementation and validation of computational tools with real data and in laboratorial environment.

Academic Qualifications:	Master's degree in electrical and computer engineering
Minimum profile required:	Advanced knowledge about electric power systems. Advanced knowledge about energy modelling and optimization algorithms. Advanced Python programming skills.
Preference factors:	Experience with energy modelling and optimization for energy management at buildings or microgrid systems; Experience in programming embedded systems; Fluency in English and Portuguese (spoken and written)

Funding Entity:	funded by Fundo Europeu de Desenvolvimento Regional (FEDER) and by the Operational Programme for Competitiveness and Internationalisation, project (reference POCI-01-0247-FEDER-046109)
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.
Selection Jury:	President of the Jury: Prof. Clara Sofia Gouveia; Member: Prof. David Emanuel Rua; 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 2022-01-26 to 2022-02-11
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us