

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2021-0239 (Plurianual_LA - 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, Industrial engineering

Job summary:

INESC TEC is accepting applications for 1 job in the Local Energy Communities

Project:	Financiamento Laboratório Associado
Scientific Advisor:	Ricardo Jorge Bessa
Duration of the contract:	from 2022-01-15 to 2023-01-14
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Local Energy Communities

Project overview: - Defining functional requirements for multi-energy communities (electricity and heat/cold) - Development of centralized and distributed energy management algorithms - Optimal planning of distributed energy resources for communities - Testing and validation in laboratory and real demonstration environment

Objectives: - Technical-economic evaluation of the implementation of local energy communities - Specification and development of new algorithms for sizing and operation of communities with renewable generation, storage and load flexibility - Application of artificial intelligence techniques for the optimization of energy communities - Testing and validation in real environment of software and hardware solutions

Academic Qualifications:	Master electrical and computer engineering; industrial engineering; mechanical engineering; operations research, other related areas
Minimum profile required:	Experience in the formulation of optimization problems (operations research) for engineering areas - Basic knowledge in energy concepts (electricity, heat/cold, etc.) - Programming experience (Python, etc.)
Preference factors:	- Experience in developing optimization problems for sustainable energy systems. - Experience in projects for multi-energy communities or micro-grids. - Fluency in English (spoken and written)

Funding Entity:	funded by National Funds through FCT - Portuguese Foundation for Science and Technology, I.P., project (reference LA/P/0063/2020)
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. Ricardo Jorge Bessa; Member: Prof. José Villar; Member: Prof. Clara Sofia Gouveia;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2021-11-24 to 2021-12-10
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us