

## CALL FOR APPLICATIONS: RESEARCHER

### Job/position/grant:

<b>Job reference:</b>	AE2022-0193 ( Plurianual_LA - CPES ) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
<b>Job/position/grant:</b>	RESEARCHER
<b>City:</b>	Porto
<b>Research field:</b>	Main: ENGINEERING Sub: Electrical engineering,Industrial engineering

### Job summary:

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

<b>Project:</b>	Financiamento Laboratório Associado
<b>Scientific Advisor:</b>	Ricardo Jorge Bessa
<b>Duration of the contract:</b>	from 2022-09-13 to 2023-09-12, eventually renewable.
<b>Location:</b>	INESC TEC, Porto, Portugal

### Job description:

<b>Work Area:</b>	Local Energy Communities
<b>Project overview:</b>	- 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
<b>Objectives:</b>	- 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

<b>Academic Qualifications:</b>	Master electrical and computer engineering; industrial engineering; mechanical engineering; operations research, other related areas
<b>Minimum profile required:</b>	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.)
<b>Preference factors:</b>	- 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)

<b>Funding Entity:</b>	funded by National Funds through FCT - Portuguese Foundation for Science and Technology, I.P., project (reference LA/P/0063/2020)
<b>Type of contract:</b>	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.

<b>Selection criteria:</b>	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.
<b>Selection Jury:</b>	President of the Jury: Prof. Ricardo Jorge Bessa; Member: Prof. José Villar; Member: Prof. Clara Sofia Gouveia;
<b>Notification of results:</b>	The results of the selection process will be sent to the interested by electronic mail.
<b>Application period:</b>	From 2022-06-22 to 2022-08-26
<b>Application submission:</b>	Electronic form filling in <a href="http://www.inesctec.pt">www.inesctec.pt</a> in the section <a href="#">Work with Us</a>