

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2021-0322 (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

Job summary:

INESC TEC is accepting applications for 1 job in the Management and control of hybrid micro grids

Project:	Financiamento Laboratório Associado
Scientific Advisor:	Clara Sofia Gouveia
Duration of the contract:	from 2022-02-15 to 2023-02-14
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area:	Management and control of hybrid micro grids
Project overview:	- Develop and adapt existing microgrid dynamic modelling for the simulation of hybrid microgrid system - Development of hybrid microgrid system sizing methodology, enabling islanded operation - Development of predictive power and energy management strategy considering flexible loads
Objectives:	Brief Presentation of the Work and Training: - Identification of control and protection requirements in hybrid (AC/DC) microgrids - Dynamic modelling and simulation of hybrid microgrid system - Development of hybrid microgrid system sizing methodology, considering islanded operation - Development of power and energy management strategy considering flexible loads

Academic Qualifications:	Master in electrical and computer engineering; power systems and and other related areas
Minimum profile required:	- Experience in the formulation of optimization problems (operations research) for engineering areas - Modelling and simulation software (Matlab Simulink, etc.) - Programming experience (Python, etc.)
Preference factors:	- Experience in the control of DC or hybrid systems - Experience in projects for 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. Clara Sofia Gouveia; Member: Prof. Ricardo Jorge Bessa; Member: Prof. José Villar;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2022-01-12 to 2022-01-31
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us