

## CALL FOR APPLICATIONS: RESEARCHER

### Job/position/grant:

<b>Job reference:</b>	AE2022-0134 ( 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

### Job summary:

<b>INESC TEC is accepting applications for 1 job in the Power Electronics</b>	
<b>Project:</b>	Financiamento Laboratório Associado
<b>Scientific Advisor:</b>	Nayara Brandão de Freitas
<b>Duration of the contract:</b>	from 2022-06-01 to 2023-05-31, eventually renewable.
<b>Location:</b>	INESC TEC, Porto, Portugal

### Job description:

<b>Work Area:</b>	Power Electronics
<b>Project overview:</b>	- Technical and staff coordination of the smart grids and electric vehicles laboratory of INESC TEC - Specification of high-performance power conversion systems according to the state of the art - Design and specification of power electronics solutions for different applications - Integration and laboratory and experimental validation of theoretical concepts such as intelligent management and control algorithms to support autonomous and interconnected operation of power systems - Production, test and validation of technological solutions developed in R&D projects.
<b>Objectives:</b>	Manage the ongoing activities of the laboratory and support the development of experimental solutions - Identify opportunities for practical development and demonstration - Define functional and technical requirements for the implementation of practical solutions - Manage human and material resources in the execution of projects - Ensure interaction with various institutional partners.

<b>Academic Qualifications:</b>	Bachelor or Master electrical and computer engineering; electronics; power electronics; energy systems; other related
<b>Minimum profile required:</b>	- Experience in the specification, design and implementation of power electronics systems, in algorithms for management and control of energy resources (e.g.: MPPT and battery management), and in the design and development of printed circuit boards. - Experience in performing tests on devices and systems (e.g.: electronic converters) in laboratory environment and in the field, as well as in the use of test equipment (e.g.: power/power analysis, efficiency and electromagnetic compatibility, thermography)
<b>Preference factors:</b>	Experience in laboratory management and in the execution of practical activities in the context of projects - Experience in simulation tools (e.g., MATLAB/Simulink) and real-time controller programming for power conversion systems (e.g., Texas Instruments C2000) - Knowledge of industrial standards and protocols - Fluency in English (written and spoken)

<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. Nayara Brandão de Freitas; Member: Prof. David Emanuel Rua; Member: Prof. Rui Esteves Araujo;
<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 2022-04-13 to 2022-05-13
<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>