CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2022-0376 (NEXUS - CRAS)
	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 RESEARCHER job in the Robotics, autonomous systems

Project:	NEXUS - Innovation Pact - Digital and Green Transition
Scientific Advisor:	André Dias
Start Date:	2022-12-27
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Robotics, autonomous systems

Project overview: - Carry out state-of-the-art inspection techniques for photovoltaic panels with aerial vehicles; - Carry out the mechanical development of a fixed-wing aerial vehicle that allows vertical takeoff and landing - Development of a sensory payload that can be integrated into the developed prototype; - Carry out preliminary flight tests and inspection of photovoltaic panels; - Exercise a critical spirit in evaluating the research process and the results obtained.

Objectives: The scope of the PRR NEXUS project will address the development of an inspection solution based on Hybrid UAVs capable of carrying out the autonomous inspection of photovoltaic panels on a periodic and totally autonomous basis. In this sense, it is intended that the candidate carry out the development of a fixed-wing aerial vehicle that allows takeoff and landing in the vertical, and that allows for perception on board during the inspection process of the photovoltaic panels.

Academic Qualifications:	Master in electrical engineering, information technology, bio engineering or related field.
Minimum profile required:	Master in Electrical Engineering.
Preference factors:	Previous experience in the development of aerial robotic platforms. Previous knowledge in configuring autopilots and developing processing software on board a UAV.

Funding Entity:	NEXUS funded by IAPMEI with reference 53 Co-financed by Component 5 - Capitalization and Business Innovation, integrated in the Resilience Dimension of the Recovery and Resilience Plan within the scope of the Recovery and Resilience Mechanism (MRR) of the European Union (EU), framed in the Next Generation EU, for the period 2021 - 2026.
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. André Dias; Member: Prof. Hugo Miguel Silva; Member: Prof. Diana Viegas;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2022-11-23 to 2022-12-07
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us

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