

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2023-0322 (PhenoBotLA83 - CRIIS) 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 Phenotyping robotics for application in the context of precision agriculture	
Project:	PhenoBot Fotónica Inteligente para Fenotipagem de Culturas Agro-Alimentares - LA 8.3 Tecnologia
Scientific Advisor:	Filipe Neves Santos
Start Date:	2023-10-01
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area:	Phenotyping robotics for application in the context of precision agriculture
Project overview:	In precision agriculture, it is necessary to measure with a high degree of detail all the characteristics and phenological states of the plants in order to be able to make an assertive and accurate decision. For this reason, in the context of the Phenobot project, it is necessary to investigate and develop robotic solutions for in-situ and proximity monitoring of plants. With this work, we intend to achieve cost-effective robotic solutions for close monitoring of each element of the plant.
Objectives:	- Study cost-effective robotic solutions for in-situ and proximity monitoring; - Research and Development of manipulators with active perception capacity; - Research and Development of proximity sensors for these robotic solutions; - Testing and validation of solutions designed in a real context.

Academic Qualifications:	Master's Degree in Computer Electrical Engineering or similar
Minimum profile required:	Programming knowledge in Python and C++, Development experience in ROS context.
Preference factors:	Experience in the development of robotics solutions for agriculture and forestry, in-depth knowledge in artificial intelligence models, knowledge and experience with ROS, with scientific publications in indexed journals, being enrolled in a Doctoral program.

Funding Entity:	PhenoBotLA83 funded by IFAP with reference PRR-C05-i03-I-000134-LA8.3 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. Filipe Neves Santos; Member: Prof. Tatiana Martins Pinho; Member: Prof. Luís Freitas Rocha;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2023-08-28 to 2023-09-08
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us