

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2023-0321 (AgendaTransform - 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 Robotics and automation for application in a precision forest context	
Project:	Agenda para a transformação digital do setor florestal para uma economia resiliente e hipocarbónica
Scientific Advisor:	Filipe Neves Santos
Start Date:	2023-10-01
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area:	Robotics and automation for application in a precision forest context
Project overview:	In precision forestry, it is necessary to carry out cleaning and planting tasks autonomously, with the aim of improving forest fire risk management and increasing forest productivity. For this reason, in the context of the AgendaTransform project, it is necessary to investigate and develop robotic solutions for cleaning and planting tasks. With this work, we intend to achieve cost-effective robotic solutions for cleaning and planting tasks in a forestry context.
Objectives:	- Study robotic solutions and cost-effective automation for cleaning and planting tasks; - Research and Development of forestry robots with active perception capability; - Research and Development of actuators and automation systems for cleaning and planting tasks; - 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, be enrolled in a Doctoral program.

Funding Entity:	AgendaTransform funded by IAPMEI with reference 34 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