

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2022-0219 (Zypho 4.0-1 - 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 Cloud Robotics and AI for Robotic Applications	
Project:	Desenvolvimento de soluções inteligentes de recuperação, armazenamento e gestão de energia térmica em edifícios de serviços
Scientific Advisor:	Rafael Lírio Arrais
Duration of the contract:	from 2022-09-01 to 2023-06-30, eventually renewable.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area:	Cloud Robotics and AI for Robotic Applications
Project overview:	The development roadmap will focus on the development of cloud-based simulation solutions and their integration with existing development pipelines, covering the complete lifecycle of software development for robotics (i.e. from source code development, all the way to the deployment and its assessment). Moreover, development/integration with Machine Learning mechanisms will be pursued, targeting the update of digital twin representations of industrial environments, as a support mechanism for robotic operations.
Objectives:	(1) Development of a Cloud Robotics infrastructure, considering the provisioning of a cloud-based simulation environment for the assessment of robotic applications; (2) Development, deployment, and assessment of mechanisms based on Machine Learning applied to robotic applications.

Academic Qualifications:	Master in Electrotechnical Engineering or similar degree.
Minimum profile required:	Proficiency in ROS, Python, and C++; knowledge of cloud computing (preferably AWS); knowledge of machine vision and artificial intelligence.
Preference factors:	Proven background in the development and deployment of Industrial Robotics applications. Experience in the formulation of scientific publications.

Funding Entity:	funded by Fundo Europeu de Desenvolvimento Regional (FEDER) and by the Operational Programme for Competitiveness and Internationalisation (NORTE 2020), project (reference NORTE-01-0247-FEDER-047322)
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. Germano Veiga; Member: Prof. Rafael Lírio Arrais; 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 2022-07-18 to 2022-07-29
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us