

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2024-0198 (TEXPACT - 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 Industrial Robotics and Advanced Object Manipulation	
Project:	Pacto de Inovação para a Digitalização do Têxtil e Vestuário
Scientific Advisor:	Luís Freitas Rocha
Start Date:	2024-07-01
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Industrial Robotics and Advanced Object Manipulation
Project overview: - Study and identify state-of-the-art solutions for handling flexible objects (textiles) with a view to feeding industrial equipment for the production of clothing. - Develop models that describe the behavior of the flexible object during manipulation operations, for use in simulations that allow the training of artificial intelligence systems. - Testing of trained artificial intelligence systems, considering a simulated and a real scenario. - Construction of a laboratory prototype with the results achieved. - Production of scientific articles and communication of results.
Objectives: Development of robotic manipulation systems for flexible objects

Academic Qualifications:	Master's degree in Computer Engineering, Electrical Engineering and related areas
Minimum profile required:	Master's degree in Computer Engineering, Electrical Engineering and related areas
Preference factors:	Previous experience in programming in ROS (1 and 2). Proven experience in Artificial Intelligence algorithms applied in the context of robotics. Experience in modeling objects and their behavior considering simulation environments with physics engines (e.g. Mujoco).

Funding Entity:	TEXPACT funded by IAPMEI with reference 61 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.
Disability Incentive:	Candidates who present a degree of disability equal to or greater than 90% will benefit from an incentive (20) in the score of the CV Assessment. Candidates who present a degree of disability equal to or greater than 60% and less than 90% will also benefit from an incentive (10) in the score of the CV Assessment. Said score may, in these cases, exceed 100 points. Candidates must demonstrate the degree of disability during the application, namely through the submission of the Multi-Purpose Medical Certificate of Disability, issued in accordance with Decree-Law no. 202/96, of October 23 - currently in effect. Candidates must declare, in the application form, the type of disability used throughout the selection process, in order to proceed with the required adaptations.

Selection Jury:	President of the Jury: Luís Freitas Rocha; Member: Germano Veiga; Member: Marcelo Petry;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2024-05-23 to 2024-06-06
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us