CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2026-0175 (CRIIS-Geral - 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	
Scientific Advisor:	Luís Freitas Rocha
Start Date:	2026-07-15
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Robotics and Automation

Project overview: The selected candidate will have the following main responsibilities: The selected candidate will have the following main responsibilities: Supporting the technical and scientific coordination of R&D projects, including planning, task monitoring, team management, preparation of technical reports, and liaison with industrial and scientific partners. Contributing to the identification of funding opportunities and preparation of applications in the scientific field. Formulating, implementing, and validating automated inspection methodologies based on advanced sensing systems, artificial intelligence, and robotics. Investigating and developing solutions for locating and manipulating semi-rigid objects or complex geometry. Investigating machine learning strategies with limited data, including the generation of synthetic data in simulation environments, to strengthen the robustness of models in the face of variations in process, defects, materials, and operating conditions. Producing transferable technical and scientific knowledge, including prototypes, demonstrators, technical reports, scientific articles, conference presentations, and participation in activities to disseminate and promote the results of the projects. Support the technical and scientific coordination of R&D projects, including planning, task monitoring, team management, preparation of technical reports, and liaison with industrial and scientific partners. Contribute to the identification of funding opportunities and the preparation of applications in the scientific field. Formulate, implement, and validate automated inspection methodologies based on advanced sensing systems, artificial intelligence, and robotics. Investigate and develop solutions for the location and manipulation of semi-rigid objects or complex geometry. Investigate machine learning strategies with limited data, including the generation of synthetic data in simulation environments, to strengthen the robustness of models in the face of variations in process, defects, materials, and operating conditions. Produce transferable technical and scientific knowledge, including prototypes, demonstrators, technical reports, scientific articles, conference presentations, and participation in activities to disseminate and promote the results of the projects.

Objectives: The work to be carried out is part of the activities of the Center for Industrial Robotics and Intelligent Systems, with the aim of strengthening the team in the areas of research, technological development, management and acquisition of R&D projects, and technology transfer to industry.

The R&D activities fall within national R&D projects, including the development of advanced robotics solutions for handling rigid, semi-rigid, or flexible objects, advanced sensing, and artificial intelligence for inspection and quality control operations.

Academic Qualifications:	PhD in Electrical and Computer Engineering, and related fields.
Minimum profile required:	Proven experience in developing R&D projects with industry. Specialized technical knowledge in industrial robotics, computer vision systems, and artificial intelligence applied to localization, inspection, and quality control operations. Experience in the development, integration, or validation of robotic solutions and/or automated systems in laboratory or industrial environments. Experience in developing synthetic datasets using simulation environments. Knowledge and experience with the ROS framework. Knowledge of C++ and Python programming. Familiarity with the theory and implementation of generative models, namely diffusion models and GANs, applied to the generation of synthetic data. Demonstrated ability to produce project reports, scientific articles, and dissemination materials in the scientific area of ■■the call for proposals. Fluency in spoken and written English.
Preference factors:	The following elements will be valued: Experience with machine learning and computer vision libraries, frameworks and methods, namely scikit-learn, YOLO, PyTorch, torchvision, OpenCV or equivalents. Experience in preparing applications for competitive funding projects and/or building relationships with industrial partners.

Funding Entity:

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: Manuel Santos Silva; Member: Marcelo Petry; Substitute member: João Pedro Souza;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2026-06-12 to 2026-06-26
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us