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Job Title	INESC TEC | RESEARCHER (AE2025-0318)
Department	CRIIS
Institution	INESC TEC PORTO, , Portugal
Date Posted	Aug. 1, 2025
Application Deadline	Aug. 8, 2025
Position Start Date	Jul. 28, 2025
Job Categories	Graduate Student
Academic Field(s)	Robotics Engineering - Other
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Job Description

Research Opportunities

Industrial Robotics

Work description

The objectives of this work plan are essentially focused on designing collaborative robotics systems, centered on the human operator, capable of assisting them in performing multiple complex tasks, with the ability to evolve and adapt to new objects/products over time. To this end, the objectives are:

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- Study computer vision solutions applicable to industrial robots.
- Explore artificial intelligence tools, including Deep Learning and Generative AI.
- Implement and test the different selected methods, with a view to their application.
- Design modular software that allows a robotic manipulator to perform tasks such as handling, inspection, and/or (dis)assembly of products, enabling the robot to generalize its behavior to new products.
- Develop quick configuration interfaces so that non-specialized operators can easily configure the system.
- Create training materials on the topic, with the aim of meeting training needs and promoting the actual adoption of these solutions by the companies in the sector involved in the project.

Academic Qualifications

- Master's Degree in Electrical and Computer Engineering, or Computer Engineering.

Minimum profile required

- Experience in industrial robotics, computer vision, and AI systems.
- Knowledge of the ROS framework, Yolo and TensorFlow libraries, and the ONNX ecosystem.
- Proficiency in C++ and Python programming languages.

Preference factors

- Experience generating synthetic data sets for training AI models and applying them to robotics.
- Relevant experience programming industrial robots from Universal Robot and Kuka.

Application Period

Since 28 Jul 2025 to 08 Aug 2025

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Centre

Robotics in Industry and Intelligent Systems

Scientific Advisor

Luís Freitas Rocha

What we offer

- **Multicultural and collaborative environment**
- A multicultural, international and collaborative environment that makes it easier to exchange ideas, work in networks and create synergies.
- **International projects**
- The possibility of working in international projects with some of the most important companies in the field.
- **Mentoring**
- Mentoring with the best researchers in the fields of electrical and industrial engineering, bioengineering, information technology and physics.
- **Self Improvement**
- The possibility of participating in international conferences, workshops, seminars and vocational training.
- **Other Benefits and Perks**
- Flexible working time, health insurance, discounts in hotels, transportation, etc.
- **Informal Events**
- Annual informal events, such as the multicultural party.

For more information: Click Here

Contact Information

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Contact

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