INESC TEC | Research Grant (AE2025-0278)
INESC TEC

Job Title	INESC TEC	Research Grant (AE2025-0278)
Department	CRIIS
Institution	INESC TEC
	PORTO, , Portugal
Date Posted	Jul. 14, 2025
Application Deadline	Jul. 22, 2025
Position Start Date	Jul. 14, 2025
Job Categories	Graduate Student
Academic Field(s)	Computer Science
	Engineering - Other
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Apply By Email	
Job Description	

Research Opportunities

Perception and Computer Vision

Work description

The automation of internal logistics operations using mobile forklift robots (autonomous stackers) requires advanced visual perception capabilities. The challenge is to develop systems capable of:

- Accurately detecting the position where forks should be inserted to handle pallets and shipping

boxes.
- Automatically assessing the condition of pallets to avoid damage to the load or accidents during transport.
- Ensuring safe and efficient operations in dynamic industrial environments.

Academic Qualifications

- Master's Degree in Electrical and Computer Engineering.

Minimum profile required

- Enrollment in a PhD in Electrical and Computer Engineering.
- Proven experience in R&D projects.
- Knowledge of ROS (Robot Operating System).
- Experience in C/C++ programming.
- Experience with Artificial Intelligence frameworks.

Preference factors

- Knowledge of AI and Computer Vision.
- Experience with RGB-D, Stereo and Structured Light image sensors.
- Python programming skills.

Maintenance stipend: € 1309.64, according to the table of monthly maintenance stipend for FCT grants , paid via bank transfer. Grant holders may be awarded potential supplements, according to a quarterly evaluation process (Articles 19, 21 and 22 of the Regulations for Grants of INESC TEC and Annex II), up to a maximum limit of 50% of the monthly maintenance stipend.

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INESC TEC supports costs with registration, enrolment or tuition fees, during the grant duration, under the terms established in the internal document: "Payment of Tuition fees to grant holders".

The grant holder will benefit from health insurance, supported by INESC TEC.

Application Period

Since 14 Jul 2025 to 25 Jul 2025

Centre

Robotics in Industry and Intelligent Systems

Scientific Advisor

João Pedro Souza

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**

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- 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

Contact

Portugal

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