

INESC TEC | Research Initiation Grant (AE2025-0193)

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Direct Link: <https://www.AcademicKeys.com/r?job=256554>

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Posted May 5, 2025, set to expire Sep. 4, 2025

Job Title	INESC TEC Research Initiation Grant (AE2025-0193)
Department	CRIIS
Institution	INESC TEC PORTO, , Portugal
Date Posted	May 5, 2025
Application Deadline	May 15, 2025
Position Start Date	May 2, 2025
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics Computer Engineering
Apply Online Here	https://www.inesctec.pt/en/form/notice/5434
Apply By Email	
Job Description	

Research Opportunities

Industrial Robotics

Work description

- Prepare a comprehensive literature review on robotic grasping and binpicking techniques with exclusive use of machine learning and intelligence artificial.
- Develop a grasping pipeline integrated with ROS, aimed at tasks of bin-picking with support for AI

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algorithms.

- Acquire practical skills in using the Omniverse simulator, focusing on simulation of robots and evaluation of grasping algorithms.
- Perform experimental tests in a simulated environment and with a physical robot, whenever possible.
- Write the scholarship activity report, documenting developments and results achieved.
- Contribute to projects that require grasping activities in robots.
- Prepare and submit a scientific paper to a relevant conference or journal in the robotics or AI area.

Academic Qualifications

- Bachelor's Degree in Electrical and Computer Engineering or similar areas.

Minimum profile required

- Enrollment in the Master's course in Electrical Engineering, Engineering Information Technology or related areas;
- Experience in programming in C/C++ and/or Python languages;
- Familiarity with machine learning models and frameworks (machinelearning).

Preference factors

- Participation in extracurricular activities related to robotics, automation or similar technological areas;
- Knowledge of Artificial Intelligence frameworks (such as TensorFlow, PyTorch, etc.);
- Experience with the Robot Operating System (ROS);
- Knowledge of computer vision;
- Experience with NVIDIA tools such as CUDA, Omniverse or Isaac Yes;

Maintenance stipend: € 651.12, according to the table of monthly maintenance stipend for FCT

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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.

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 02 May 2025 to 15 May 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

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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

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Portugal

Contact E-mail rh@inesctec.pt