

CALL FOR GRANT APPLICATIONS

(AE2026-0294)

INESC TEC is now accepting grant applications to award 1 Research Grant (BI) project MOBOT2, with reference 24264 (NORTE2030-FEDER-02961400) Co-funded by ERDF - European Regional Development Fund through the NORTE 2030 Regional Program under the scope of Portugal 2030.

1. GRANT DESCRIPTION

Type of grant: Research Grant (BI)

General scientific area: ENGINEERING

Scientific subarea: Electrical engineering

Area of Work: Industrial Robotics

Grant duration: 12 months, starting on 2026-11-01, with the possibility of being renewed until the end of the project.

Scientific advisor: João Pedro Souza

Workplace: INESC TEC, Porto, Portugal

Maintenance stipend: € 1359.64, [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.

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.

2. OBJECTIVES:

Development of robotic manipulation and perception systems for unknown objects for mobile manipulators.

3. BRIEF PRESENTATION OF THE WORK PROGRAMME AND TRAINING:

Study and identify state-of-the-art solutions for object detection and manipulation, with a view to application in mobile manipulators, exploring single- or dual-arm configurations. Develop control, planning, and estimation algorithms for pick-and-place tasks of unknown objects, using computer vision (2D and/or 3D images) and AI models (CNN, VLA, RL, World Models architectures, among others). Evaluate One-Shot and Zero-Shot strategies for robotic selection. Write technical and scientific reports and articles. Implement in simulation, validate in a real robot, and integrate into an industrial production line.

4. REQUIRED PROFILE:

Admission requirements:

Master's degree in Electrical and Computer Engineering; Master's degree in Computer Science; Master's degree in AI; Master's degree in Computer Science or related fields.

The awarding of the fellowship is dependent on the applicants' enrolment in study cycle or non-award courses of Higher Education Institutions.



Preference factors:

- Experience with ISAAC SIM/LAB, ManiSkill, Gazebo, or Mujoco.
- Experience using robotic hardware: robots (UR, Doosan, Kuka, ABB, or Techman), actuators (suction, magnetic, and finger grippers), and sensing devices (RGB, RGB-D, Structured Light, ToF cameras, and similar).
- Proven experience with R&D projects.
- Published scientific article.
- Willingness to develop beyond simulation (sim-to-real gap).

Enviar feedback e opiniões

Minimum requirements:

- Experience in developing computer vision and/or manipulation and grasping algorithms for industrial automation and/or robotics applications through R&D projects, company internships, or professional experience;
- Experience in programming industrial robots through R&D projects, company internships, or professional experience.
- Knowledge of ROS and ROS2.
- Experience in the following programming languages: Python and C++.
- Experience with AI frameworks (TensorFlow, PyTorch, and similar) and the use of AI models.
- Completed Master's degree in: Master's in Electrical and Computer Engineering; Master's in Computer Science; Master's in AI; Master's in Computer Science or related fields.
- Currently enrolled in a doctoral program in Electrical and Computer Engineering or related fields, or in a non-degree program, as applicable to the scholarship regulations.

5. EVALUATION OF APPLICATIONS AND SELECTION PROCESS:

Selection criteria and corresponding valuation: the first phase comprises the Academic Evaluation (AC), based on the criteria referred to in Article 12 of the [Regulations for Grants of INESC TEC](#), while the second phase comprehends the Individual Interview (EI). All factors are evaluated on a scale of 0 to 100, taking into account the applicants' merit, suitability and conformity with the preference factors.

The weight of the AC factors are as follows: Academic Qualifications (FA, 45%), Scientific Publications (PC, 5%), Experience (EX, 45%) and Motivation Letter (CM, 5%).

Candidates who score less than 50 points in the AC average will be considered excluded on absolute merit. The top five candidates approved on absolute merit will be qualified for the individual interview. The Final Grade (CF) is obtained by the weighted average of AC (80%) and EI (20%).

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.

The Selection Jury is composed of the following members:

President of the Jury: João Pedro Souza

Full member: Luís Freitas Rocha

Full member: Rafael Lírio Arrais
Substitute member: Marcelo Petry

Release of results and prior hearing: the results of the selection process, as well as the terms and procedures for prior hearing, will be released to the applicants by email, under the terms referred to in Article 13 of the Regulations for Studentships and Fellowships of INESC TEC.

6. FORMALISATION OF APPLICATIONS:

Application Documents:

1. Motivation letter;
2. Curriculum Vitae (must include the list of previous fellowships, their type, beginning and end dates, funding entities and host institutions);
3. Certificate or diploma degree;
4. Proof of enrollment in a degree awarding study cycle or in a non degree awarding Higher Education program.
 - The proof of enrollment may be presented just during the grant hiring stage.
5. Signed declaration stating the infringement of the grant holder's duties (article 14, no. 4)
6. Documental evidence to support the country of residence, residence permit or other legally equivalent document, in cases where the applicant is a foreigner or non-resident in Portugal - valid until the beginning of the grant.
7. Other supporting documents relevant to the final assessment.

Failure to deliver the required documents within the 90-day period after the date of the notice of the conditional awarding of the grant implies its cancellation.

Application period: From 2026-10-01 to 2026-10-15

Submission of applications: the application will be formalised by submitting the form available in the *Work With Us* section of INESC TEC website.

7. BINDING LEGISLATION AND REGULATION

The hiring process shall comply with the current legislation regarding the Research Grant Holder Statute, approved by Law no. 40/2004 of August 18, in its current wording, as well as by the [Regulations for Grants of INESC TEC](#) and for [FCT Grants Regulation in force](#).

For more information, please check the [Regulations for Grants of INESC TEC](#) and relevant annexes at www.inesctec.pt/bolsas



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