

INESC TEC | Research Grant (AE2024-0257)
INESC TEC

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Posted Aug. 6, 2024, set to expire Dec. 6, 2024

Job Title	INESC TEC Research Grant (AE2024-0257)
Department	CRIS
Institution	INESC TEC PORTO, , Portugal
Date Posted	Aug. 6, 2024
Application Deadline	Aug. 14, 2024
Position Start Date	Aug. 1, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunity

Mobile Robotics

Work description

- Definition of parametric trajectories compatible with different kinematics of mobile robots (differential, tricycle, omnidirectional).
- Development and integration of a predictive trajectory driver in omnidirectional mobile robots

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present at the facilities of iiLab - INESC TEC's Industry and Innovation Laboratory.

Extension of the predictive trajectories driver for different kinematics of mobile robots (differential, tricycle, omnidirectional).

- Definition of performance indicators and scenarios to demonstrate the results of the predictive driver compared to other trajectory tracking approaches.
- Development of methodologies for avoiding obstacles in parametric trajectories.
- Study and testing of new location technologies based on 3D sensors (optional).
- Study and testing of new emerging technologies based on the application of AI in both perception and mobile robot control (optional)

Academic Qualifications

Master's Degree in Electrical and Computer Engineering

Minimum profile required

Enrollment in a PhD course in Electrical and Computer Engineering, Computer Engineering, or related areas.

Preference factors

- Experience in Control;
- C++/ROS;
- Predictive Control;
- Systems Control;

Maintenance stipend: € 1259,64, 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

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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 01 Aug 2024 to 14 Aug 2024

Centre

Robotics in Industry and Intelligent Systems

Scientific Advisor

[Héber Miguel Sobreira](#)

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

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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