

INESC TEC | Research Grant (AE2024-0431)
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=247312>

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Posted Oct. 18, 2024, set to expire Feb. 17, 2025

Job Title	INESC TEC Research Grant (AE2024-0431)
Department	CRAS
Institution	INESC TEC PORTO, , Portugal
Date Posted	Oct. 18, 2024
Application Deadline	Oct. 30, 2024
Position Start Date	Oct. 17, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Underwater Robotics

Work description

1. Study of the following topics: a. Motion models of ASV and AUV (kinematics and dynamics) b. Models for acoustic modems (propagation delays, communication schemes, acoustic ranging) c. Underwater localization principles
2. Develop software drivers for integration of components in embedded systems (AUV and ASV).
3. Develop a simulation environment for cooperative AUV and ASV operations, including communication constraints.
4. Simulate cooperative missions with communication capabilities.

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5. Integrate communication capabilities in autonomous vehicles (AUV & ASV).
6. Plan and participate in field trials to validate cooperative maneuvers, including partial testing and tank experiments.
7. Report and disseminate the developed work (ideally with a publication)

Academic Qualifications

Undergraduate studies in Naval Architecture and Ocean Engineering

Minimum profile required

Knowledges of Python and C++

Preference factors

Previous experience in Robotics Systems Development

Maintenance stipend: € 601,12, 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.

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Application Period

Since 17 Oct 2024 to 30 Oct 2024

Centre

Robotics and Autonomous Systems

Scientific Advisor

[Nuno Cruz](#)

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.

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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