

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

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

Downloaded On: Oct. 19, 2024 1:20pm

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

<b>Job Title</b>	INESC TEC   Research Grant (AE2024-0431)
<b>Department</b>	CRAS
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Oct. 18, 2024
<b>Application Deadline</b>	Oct. 30, 2024
<b>Position Start Date</b>	Oct. 17, 2024
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Engineering - Other
<b>Apply Online Here</b>	<a href="https://www.inesctec.pt/en/form/notice/5114">https://www.inesctec.pt/en/form/notice/5114</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

**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