

## INESC TEC | Research Initiation Grant (AE2025-0187) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=256552>

Downloaded On: Jul. 12, 2025 4:41pm

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

<b>Job Title</b>	INESC TEC   Research Initiation Grant (AE2025-0187)
<b>Department</b>	CTM
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	May 5, 2025
<b>Application Deadline</b>	May 15, 2025
<b>Position Start Date</b>	May 2, 2025
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Engineering - Other Electrical and/or Electronics
<b>Apply Online Here</b>	<a href="https://www.inesctec.pt/en/form/notice/5437">https://www.inesctec.pt/en/form/notice/5437</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

Research Opportunities

**Telecommunications**

### Work description

- Survey the state of the art in emerging wireless networks, including their simulation using real data assimilation, machine learning, and digital twin approaches;
- Collaborate in the writing of technical reports on communications protocols, algorithms, and

## INESC TEC | Research Initiation Grant (AE2025-0187)

### INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=256552>

Downloaded On: Jul. 12, 2025 4:41pm

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

mechanisms developed; - develop new modules enabling the simulation and/or experimentation of emerging wireless networks;

- Develop algorithms for the aggregation and management of multimodal wireless networks tailored for operation in maritime scenarios;
- Write publications in co-authorship within the scope of the work developed;
- Write the final activity report of the grant.

### Academic Qualifications

- Student in Electrical Engineering or similar.

### Minimum profile required

- Solid knowledge in TCP/IP stack and Linux;
- Programming skills in C++ and Python;
- Proven research experience in the area of underwater networks, especially in maritime environments.

### Preference factors

- Knowledge in IEEE 802.11 and underwater acoustic links;
- Knowledge in conventional and Machine Learning-based optimization techniques;
- Knowledge in discrete event-driven simulation.

**Maintenance stipend:** € 651.12, 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

## INESC TEC | Research Initiation Grant (AE2025-0187) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=256552>

Downloaded On: Jul. 12, 2025 4:41pm

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

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

Telecommunications and Multimedia

### Scientific Advisor

[Rui Lopes Campos](#)

### 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.

## INESC TEC | Research Initiation Grant (AE2025-0187) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=256552>

Downloaded On: Jul. 12, 2025 4:41pm

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

- **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