

## INESC TEC | Research Initiation Grant (AE2025-0137)

### INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=254441>

Downloaded On: May. 31, 2025 7:59pm

Posted Mar. 17, 2025, set to expire Jul. 14, 2025

<b>Job Title</b>	INESC TEC   Research Initiation Grant (AE2025-0137)
<b>Department</b>	CTM
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Mar. 17, 2025
<b>Application Deadline</b>	Mar. 27, 2025
<b>Position Start Date</b>	Mar. 13, 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/5381">https://www.inesctec.pt/en/form/notice/5381</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

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mechanisms developed.

- Develop new modules enabling the simulation and/or experimentation of emerging wireless networks.
- Develop IoT network optimization algorithms with the goal of reducing the energy consumption while maintaining the quality of service.
- 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 experience in the implementation of link layer, network layer and app layer network protocols.

### Preference factors

- Knowledge in IEEE 802.11, Bluetooth and other IoT technologies.
- 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.

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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 13 Mar 2025 to 27 Mar 2025

### Centre

Telecommunications and Multimedia

### Scientific Advisor

[Hélder Martins Fontes](#)

### 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**

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- 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.

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