

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

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

Job Title	INESC TEC Research Initiation Grant (AE2025-0137)
Department	CTM
Institution	INESC TEC PORTO, , Portugal
Date Posted	Mar. 17, 2025
Application Deadline	Mar. 27, 2025
Position Start Date	Mar. 13, 2025
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other Electrical and/or Electronics
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Apply By Email	
Job Description	

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