

## INESC TEC | Research Initiation Grant (AE2024-0563) INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=250599>

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Posted Dec. 18, 2024, set to expire Apr. 19, 2025

**Job Title** INESC TEC | Research Initiation Grant (AE2024-0563)  
**Department** CTM  
**Institution** INESC TEC  
PORTO, , Portugal

**Date Posted** Dec. 18, 2024

**Application Deadline** Jan. 3, 2025

**Position Start Date** Dec. 19, 2024

**Job Categories** Graduate Student

**Academic Field(s)** Engineering - Other

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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 mechanisms developed.

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- 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.

### Application Period

Since 19 Dec 2024 to 03 Jan 2025

### Centre

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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**
- 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

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Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact**

Portugal

**Contact E-mail**      rh@inesctec.pt