

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

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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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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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Contact

Portugal

Contact E-mail rh@inesctec.pt