

INESC TEC | Research Grant (AE2024-0423)
INESC TEC

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Posted Oct. 11, 2024, set to expire Feb. 10, 2025

Job Title	INESC TEC Research Grant (AE2024-0423)
Department	CTM
Institution	INESC TEC PORTO, , Portugal
Date Posted	Oct. 11, 2024
Application Deadline	Oct. 24, 2024
Position Start Date	Oct. 10, 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;
- Develop new modules enabling the simulation and/or experimentation of emerging wireless

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networks;

- Write publications in co-authorship within the scope of the work developed;

Academic Qualifications

MSc in Electrical Engineering or similar

Minimum profile required

- Solid knowledge and experience in IEEE 802.11 and IoT technologies;
- Solid knowledge in discrete event-driven simulation, especially with ns-3;
- Experience in the optimization of HARQ mechanisms, and implementation of error correction codes;
- Solid knowledge in TCP/IP stack and Linux;
- Programming skills in C++ and Python;
- Solid knowledge in the use and development of MATLAB models;
- Proven previous research experience in the telecommunications area.

Preference factors

- Research experience regarding the performance optimization of wireless networks using Artificial Intelligence/Machine Learning-based algorithms.

Application Period

Since 10 Oct 2024 to 24 Oct 2024

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