

INESC TEC | Research Grant (AE2024-0218) INESC TEC

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Posted Jun. 14, 2024, set to expire Oct. 14, 2024

Job Title	INESC TEC Research Grant (AE2024-0218)
Department	CTM
Institution	INESC TEC PORTO, , Portugal
Date Posted	Jun. 14, 2024
Application Deadline	Jun. 27, 2024
Position Start Date	Jun. 13, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunity

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, 5G and IoT technologies;
- Experience in the optimization of the network flows according to the QoS requirements/priority;
- Solid knowledge in TCP/IP stack and Linux;
- Programming skills in C++ and Python;
- Solid knowledge in the use and development of wireless multimodal communication protocols.

Preference factors

- Knowledge in discrete event-driven simulation, especially with ns-3;
- Research experience regarding prioritization of data-flows in multi-modal communications;
- Experience with Open RAN software, such as OpenAirInterface;
- Experience using Artificial Intelligence/Machine Learning applied to the wireless networks area.

Maintenance stipend: € 1259,64, 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.

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 Jun 2024 to 27 Jun 2024

Centre

Telecommunications and Multimedia

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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

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

Contact

Portugal

Contact E-mail rh@inesctec.pt