INESC TEC | Research Initiation Grant (AE2024-0494)
INESC TEC

Job Title	INESC TEC	Research Initiation Grant (AE2024-0494)
Department	CTM
Institution	INESC TEC
	PORTO, , Portugal
Date Posted	Nov. 22, 2024
Application Deadline	Dec. 4, 2024
Position Start Date	Nov. 21, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
Apply Online Here	https://www.inesctec.pt/en/form/notice/5165
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;
- 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;
- Proven previous research experience in the telecommunications area, namely on the performance evaluation of next generation networks (in specific, 5G or LEO Satellite);
- Experience with traffic generation tools, such as iperf2/3 and tcpdump/wireshark;
- Programming skills in C++ and Python.

Preference factors

- Knowledge in IEEE 802.11, 5G, IoT technologies, and LEO Satellite connections;
- Knowledge in discrete event-driven simulation.

Maintenance stipend: € 601,12, 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.

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".

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The grant holder will benefit from health insurance, supported by INESC TEC.

Application Period

Since 21 Nov 2024 to 04 Dec 2024

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**
- The possibility of participating in international conferences, workshops, seminars and vocational training.
- **Other Benefits and Perks**

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- 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