

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2025-0437 (CTM-Geral - CTM) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: ENGINEERING Sub: Electrical engineering

Job summary:

INESC TEC is accepting applications for 1 RESEARCHER job in the Scientific research and development in the field of Wireless Networks.

Scientific Advisor:	Hélder Martins Fontes
Duration of the contract:	from 2025-11-17 to 2026-11-16, eventually renewable.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Scientific research and development in the field of Wireless Networks.

Project overview: The selected candidate will join a research team in the field of Wireless Networks, contributing to the design, implementation, and optimization of on-demand communications solutions for demanding scenarios, using robotic platforms. Contributions are also expected in the development of new digital models for wireless network simulation, as well as software developments aligned with the creation of Network Digital Twins, promoting the repeatability and reproducibility of scientific results, even in challenging scenarios. Main Tasks include: - Carry out scientific research in the field of Wireless Networks, aligned with emerging wireless network scenarios, including mobile base stations based on open-source software and SDR hardware, convergence between communications and sensing, Network Digital Twins, and the native use of AI for the creation of increasingly efficient, autonomous, and adaptable communications systems (including the use of robotic platforms) for extreme environments. - Support the coordination and execution of R&D projects, including the SUPERIOT, OVERWATCH, PRODUTECH R3, NEXUS, HURRICANE, and PLURIANUAL-LA projects, as well as the execution of associated technical activities. - Carry out scientific research aimed at publication in international journals and conferences, as well as mentoring junior researchers and coordinating and participating in scientific and technological dissemination initiatives. - Support the preparation of R&D project proposals and knowledge valorization activities, including the exploitation of intellectual property. - Support the maintenance and expansion of CTM's research support infrastructure (software and hardware), including web tools and mobile testbeds.

Objectives: Objectives:

- Carry out scientific research in the field of Wireless Networks.
- Support the coordination and execution of R&D projects.
- Conduct scientific research aimed at publication in international journals and conferences, as well as mentor junior researchers and coordinate and participate in scientific and technological dissemination initiatives.
- Support the preparation of R&D project proposals and knowledge valorization activities.
- Support the maintenance and expansion of CTM's research support infrastructure.

Academic Qualifications:	Master's degree or higher in Electrical and Computer Engineering, or a related scientific field
Minimum profile required:	Master's degree holders with research experience compatible with the category of Research Assistant. Minimum of two publications in indexed international conference proceedings, with at least one as first author. Previous experience in the execution of international research projects in the area of wireless networks, including aspects related to the integration of communication nodes in robotic platforms and the implementation of Wi-Fi and 5G Network Digital Twins. Proficiency in the use of the ns-3 network simulator, with proven experience in the development of new ns-3 modules. Proficiency in MATLAB. Expertise in the application of Artificial Intelligence to problem optimization or resolution. Fluency in Portuguese and English, both written and spoken. Availability to travel.
Preference factors:	Previous experience in supervising research interns (e.g., Bachelor's students or Summer Internships), as well as participation in scientific and technological outreach initiatives. Experience leading activities in European research projects (e.g., Horizon Europe).

Funding Entity:

Type of contract: fixed-term contract

The hiring shall be governed by what is stipulated in the legislation in force regarding fixed-term employment contracts and by INESC TEC norms.

Selection criteria:	The selection of the candidates will be based on the following criteria, in descending order of consideration: a) Relevant Curriculum in the concerned field of this tender b) Proven experience.
Disability Incentive:	Candidates who present a degree of disability equal to or greater than 90% will benefit from an incentive (20) in the score of the CV Assessment. Candidates who present a degree of disability equal to or greater than 60% and less than 90% will also benefit from an incentive (10) in the score of the CV Assessment. Said score may, in these cases, exceed 100 points. Candidates must demonstrate the degree of disability during the application, namely through the submission of the Multi-Purpose Medical Certificate of Disability, issued in accordance with Decree-Law no. 202/96, of October 23 - currently in effect. Candidates must declare, in the application form, the type of disability used throughout the selection process, in order to proceed with the required adaptations.
Selection Jury:	President of the Jury: Hélder Martins Fontes; Member: Rui Lopes Campos; Member: André Filipe Coelho; Substitute member: Filipe André Ribeiro;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2025-10-02 to 2025-10-16
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us