

INESC TEC | Research Grant (AE2025-0165) INESC TEC

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Posted Apr. 11, 2025, set to expire Aug. 11, 2025

Job Title	INESC TEC Research Grant (AE2025-0165)
Department	CTM
Institution	INESC TEC PORTO, , Portugal
Date Posted	Apr. 11, 2025
Application Deadline	Apr. 24, 2025
Position Start Date	Apr. 10, 2025
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunities

Engineering

Work description

1. Identification of the waveguides to be used based on the frequency of interest.
2. Selection of conductive inks and substrates, typical for antennas or alternative ones such as glass, with a focus on sustainable materials and manufacturing techniques suitable for the application.
3. Design (using electromagnetic simulation software) and fabrication of test samples of unit cells of

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reconfigurable intelligent surfaces, with dimensions appropriate for the selected waveguides.

4. Planning of the experimental setup to support characterization, including the design and fabrication of necessary fixtures for measurements.
5. Performing the experimental characterization of the fabricated test samples using the prepared experimental setups.
6. Implementation in Matlab of data post-processing algorithms required to obtain the electrical parameters of the conductive inks and substrates.
7. Prepare submission of a scientific article.
8. Write the grant activity report.

Academic Qualifications

- MSc in Electrical Engineering, or similar.

Minimum profile required

- Experience in the experimental characterization of antennas through waveguide-based methods.

Preference factors

- Previous publications related with the characterization of antennas through waveguide-based methods.
- Experience in the post-processing of experimental data in Matlab.

Maintenance stipend: € 1309.64, 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

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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 10 Apr 2025 to 24 Apr 2025

Centre

Telecommunications and Multimedia

Scientific Advisor

[Luís Manuel Pessoa](#)

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**

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- 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