

INESC TEC | Research Grant (AE2025-00010)

INESC TEC

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Posted Jan. 24, 2025, set to expire May 26, 2025

Job Title	INESC TEC Research Grant (AE2025-00010)
Department	CTM
Institution	INESC TEC PORTO, , Portugal
Date Posted	Jan. 24, 2025
Application Deadline	Feb. 5, 2025
Position Start Date	Jan. 23, 2025
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other Electrical and/or Electronics
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Job Description	

Research Opportunities

Engineering

Work description

1. Design of the base version of a control PCB for a 30x30 elements RIS at 140 GHz.
2. Optimization of the developed PCB according to the requirements of the devices used in the project (e.g., Schottky diodes, CMOS, microfluidics).
3. Manufacturing and testing of the developed PCB and validation of the interface with the 140 GHz

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RIS.

4. Configure an FPGA platform to interface with the control PCB.
5. Develop a Jupyter Notebook overlay for advanced control via the FPGA.
6. Write the activity report for the scholarship.

Academic Qualifications

- Bachelor's degree in electrical engineering or related field

Minimum profile required

- Experience in designing electronic circuits, as well as carrying out test and validation circuits.

Preference factors

- Experience in programming FPGAs and Jupyter Notebooks.

Maintenance stipend: € 990,98, 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.

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Application Period

Since 23 Jan 2025 to 05 Feb 2025

Centre

Telecommunications and Multimedia

Scientific Advisor

[Nuno Miguel Paulino](#)

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.

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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