

INESC TEC | Research Grant (AE2025-0139)
INESC TEC

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Posted Mar. 17, 2025, set to expire Jul. 14, 2025

Job Title	INESC TEC Research Grant (AE2025-0139)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Mar. 17, 2025
Application Deadline	Mar. 26, 2025
Position Start Date	Mar. 13, 2025
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics Computer Engineering Engineering - Other
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Job Description	

Research Opportunities

Electrical and Computer Engineering

Work description

- Collaborate in the implementation of the power architecture of the DC microgrid.
- Study of advanced modulations for the Dual-Active Bridge isolated DC/DC power converter.
- Collaboration on the development of the isolated DC/DC power converter prototype.

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- Collaborate on the implementation of the digital controller for the isolated DC/DC converter.
- Write the grant activity report.

Academic Qualifications

- Degree in Electrical Engineering, Informatics, Computer Science or similar.

Minimum profile required

- Knowledge of power electronic systems, in particular AC/DC power conversion systems.
- Knowledge in embedded systems (ex. arduino, raspberry pi, etc.).

Preference factors

- Past experience (or academic training) in power control and energy conversion systems.
- Knowledge of PLECS and Matlab/Simulink numerical simulation tools.
- Knowledge of programming in Python and MATLAB Script.
- Knowledge of programming for microprocessor systems.
- Knowledge of hardware for embedded systems.

Maintenance stipend: € 1040,98 or 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 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 13 Mar 2025 to 26 Mar 2025

Centre

Power and Energy Systems

Scientific Advisor

[Rui Esteves Araujo](#)

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**

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- 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