

INESC TEC | Research Grant (AE2025-0149)
INESC TEC

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Posted Apr. 4, 2025, set to expire Aug. 4, 2025

Job Title	INESC TEC Research Grant (AE2025-0149)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Apr. 4, 2025
Application Deadline	Apr. 11, 2025
Position Start Date	Mar. 31, 2025
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunities

Power Systems

Work description

- Modeling, with DigSILENT PowerFactory, of the hybrid energy storage system to be installed in the electrical grid of Graciosa Island, as part of the European SMHYLES project.
- Integration of this model into the RMS transient model of the electrical system of Graciosa Island.
- Performing impact studies of the operation of the hybrid energy storage system on the transient behavior of the electrical system of Graciosa Island for the definition of the converters'

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parameterization and validation of the network requirements to be defined by the network operator.

Academic Qualifications

- Academic training in electrical engineering.

Minimum profile required

- Solid academic knowledge on electrical power systems and on the modeling and analyses of steady-state and transient behavior of power systems.

Preference factors

- Relevant academic and practical knowledge in transient analysis of electrical power systems with DigSILENT PowerFactory and in RMS modeling of the transient behavior of generation and storage devices in power 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".

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

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Application Period

Since 31 Mar 2025 to 11 Apr 2025

Centre

Power and Energy Systems

Scientific Advisor

[Helena Vasconcelos](#)

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