

INESC TEC | Research Grant (AE2025-0457)
INESC TEC

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Posted Oct. 15, 2025, set to expire Feb. 2, 2026

Job Title	INESC TEC Research Grant (AE2025-0457)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Oct. 15, 2025
Application Deadline	Oct. 15, 2025
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Computer Engineering Electrical and/or Electronics
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Apply By Email	
Job Description	

Research Opportunities

Power Systems

Work description

- Survey and critical analysis of the state-of-the-art in hypervision, decision support systems, and AI agents applied to power grid operations (based on LF Energy's GridFM and OperatorFabric projects).
- Scenario modeling using real and synthetic data, including the integration of electric vehicles and photovoltaic production.
- Development of the hypervision cockpit for simultaneous monitoring of multiple grids.

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- Implementation of the AI nnAssistant, including features such as state estimation, alarm prioritization, and issuing recommendations to the operator.
- Integration and testing in an experimental environment, with real data provided by grid operators and energy pilot communities, evaluating performance, usability, and the impact on operators' cognitive load.

Academic Qualifications

- Electrical and computer engineering; computer science; applied mathematics; related fields.

Minimum profile required

- Advanced knowledge of a programming language (e.g. Python, C++).

Preference factors

- Knowledge of electrical distribution networks.
- Knowledge of machine learning.
- Experience in software development and APIs.
- Fluency in English (written and spoken).

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.

Application Period

Since 02 Oct 2025 to 15 Oct 2025

Centre

Power and Energy Systems

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Scientific Advisor

[Gil Silva Sampaio](#)

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.

For more information: [Click here](#)

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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