

INESC TEC | Research Grant (AE2025-0416) INESC TEC

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Posted Sep. 16, 2025, set to expire Jan. 15, 2026

Job Title	INESC TEC Research Grant (AE2025-0416)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Sep. 16, 2025
Application Deadline	Oct. 15, 2025
Position Start Date	Sep. 15, 2025
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other Electrical and/or Electronics
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Job Description	

Research Opportunities

Modeling of electrical networks

Work description

- Improvement of the dynamic operating envelope calculation tool.
- Explore sensitivity calculation strategies based on smart meter measurements and perform comparative analysis.
- Implementation of artificial intelligence and optimization algorithms in different use cases related

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- to low-voltage grid operations.
- Writing supporting technical documentation.
- Writing scientific articles.

Academic Qualifications

- Electrical and computer engineering; computer science; 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 and optimization algorithms.
- Experience in software and API development.
- 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".

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

Application Period

Since 15 Sep 2025 to 15 Oct 2025

Centre

Power and Energy Systems

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.

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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