

INESC TEC | Research Grant (AE2025-0016) INESC TEC

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

Job Title	INESC TEC Research Grant (AE2025-0016)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Jan. 24, 2025
Application Deadline	Feb. 7, 2025
Position Start Date	Jan. 23, 2025
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics Computer Science Engineering - Other
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Job Description	

Research Opportunities

Digital Twins for distribution grids

Work description

The Alliance for Energy Transition (AET) project aims to develop and industrialize new technologies to support the decarbonization of society, taking advantage of technological and scientific knowledge in the field of Energy in Portugal. In this context, the selected candidate will be integrated into a work

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team dedicated to the theme of smart grid management, covering the entire value chain, from promoting the integration of more renewable sources to the incentives created with consumers to decarbonize electrical energy consumption.

Counting with the participation of leading entities in the commercialization of software solutions for the management of electricity networks, as well as essential technology takers (e.g., network operators), the aim is to mature recent research initiatives in smart grids management and demonstrate its potential for industrialization.

Academic Qualifications

- Electrical and computer engineering; Informatics.
- Computer science.
- Applied mathematics.
- Other related.

Minimum profile required

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

Preference factors

- Knowledge about machine learning algorithms and/or operations research.
- Knowledge about electric power systems.
- Experience in software and API development.
- Fluency in English (spoken and written).
- Fluency in Portuguese (spoken and written).

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Maintenance stipend: € 990,98 or 1259,64, 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 23 Jan 2025 to 07 Feb 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.

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- **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.

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