

INESC TEC | Research Grant (AE2024-0419) INESC TEC

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Posted Oct. 7, 2024, set to expire Feb. 6, 2025

Job Title	INESC TEC Research Grant (AE2024-0419)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Oct. 7, 2024
Application Deadline	Nov. 3, 2024
Position Start Date	Oct. 3, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunities

Energy Systems - Anomaly detection and state estimation

Work description

- Review of the state of the art regarding the application of state estimation algorithms in distribution networks, particularly low-voltage networks.
- Study of alternative techniques for analysing and managing distribution networks, particularly those based on automatic learning.
- Improvements and error correction of the state estimation tool based on data collected by smart

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meters.

- Improvements to the predictive state estimation functionality.
- Implementation of an anomaly identification module.
- Identifying and specifying use cases.
- Writing technical support documentation.

Minimum profile required

Bachelor's or Master's degree in electrical engineering and computers; informatics; computer science; applied maths; related areas

Preference factors

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

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

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Since 03 Oct 2024 to 03 Nov 2024

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.
- **Informal Events**
- Annual informal events, such as the multicultural party.

For more information: [Click Here](#)

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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