

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

Direct Link: <https://www.AcademicKeys.com/r?job=246645>

Downloaded On: Nov. 21, 2024 7:35pm

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

<b>Job Title</b>	INESC TEC   Research Grant (AE2024-0419)
<b>Department</b>	CPES
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Oct. 7, 2024
<b>Application Deadline</b>	Nov. 3, 2024
<b>Position Start Date</b>	Oct. 3, 2024
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Engineering - Other
<b>Apply Online Here</b>	<a href="https://www.inesctec.pt/en/form/notice/5100">https://www.inesctec.pt/en/form/notice/5100</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

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