

## INESC TEC | Research Grant (AE2025-0178) INESC TEC

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Posted Apr. 30, 2025, set to expire Aug. 30, 2025

<b>Job Title</b>	INESC TEC   Research Grant (AE2025-0178)
<b>Department</b>	CPES
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Apr. 30, 2025
<b>Application Deadline</b>	May 12, 2025
<b>Position Start Date</b>	Apr. 28, 2025
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Electrical and/or Electronics Engineering - Other
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<b>Job Description</b>	

Research Opportunities

### Data Engineering

#### Work description

1. Study the current process of collecting building consumption data from INESC TEC obtained from the WITHUS meters, identifying where the meters are installed and how communication is made.
2. Update or develop a new data collection process for the new meters, aiming to improve possible issues with the existing script.
3. Develop intuitive dashboards for presenting consumption data and displaying it in a browser

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environment.

4. Integrate the data into the building's technical management system.
5. Prepare a technical report: -Study the functionalities of the Daikin heat pump and how to communicate with it through a DCOM adapter connected to a Moxa gateway.
6. Prepare a technical report on how to interact with the heat pump system and gateway, specifying their capabilities and how to retrieve and send information.
7. Develop scripts to establish communication with the system, collect information, and send setpoints to control the heat pump's operation based on user needs.

### Academic Qualifications

- Electrotechnical Engineering, Telecommunications and Informatics Engineering, or similar

### Minimum profile required

- Knowledge in one programming language.
- Basic knowledge in data analysis, ICT and IoT.

### Preference factors

- Experience in Python, SQL, Modbus and Grafana.
- Fluency in English (spoken and written).

**Maintenance stipend:** € 1040.98, 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 28 Apr 2025 to 12 May 2025

### Centre

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Power and Energy Systems

### Scientific Advisor

[Tiago André Soares](#)

### 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.
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- 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.

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### Contact Information

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

### Contact

Portugal

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**Contact E-mail**      rh@inesctec.pt