

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

Direct Link: <https://www.AcademicKeys.com/r?job=256396>

Downloaded On: Aug. 22, 2025 1:14pm

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

Job Title	INESC TEC Research Grant (AE2025-0178)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Apr. 30, 2025
Application Deadline	May 12, 2025
Position Start Date	Apr. 28, 2025
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics Engineering - Other
Apply Online Here	https://www.inesctec.pt/en/form/notice/5425
Apply By Email	
Job Description	

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

INESC TEC | Research Grant (AE2025-0178)

INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=256396>

Downloaded On: Aug. 22, 2025 1:14pm

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

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

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

Direct Link: <https://www.AcademicKeys.com/r?job=256396>

Downloaded On: Aug. 22, 2025 1:14pm

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

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.
- **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

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

Direct Link: <https://www.AcademicKeys.com/r?job=256396>

Downloaded On: Aug. 22, 2025 1:14pm

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

Contact E-mail rh@inesctec.pt