

INESC TEC | Research Grant (AE2025-0004)
INESC TEC

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Posted Jan. 16, 2025, set to expire May 18, 2025

Job Title	INESC TEC Research Grant (AE2025-0004)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Jan. 16, 2025
Application Deadline	Feb. 16, 2025
Position Start Date	Jan. 16, 2025
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunities

Integration of thermal storage systems in the commercial sector

Work description

- Characterization of the energy consumption profiles of the cooling systems with and without PCM storage.
- Development of a model for the charging and discharging of the PCM storage system.
- Development of an energy management system model for the cooling system with PCMs, aiming to define the charging and discharging periods for the PCM storage system according to specific

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- operational goals (e.g., energy savings, lower GHG emissions, increased self-consumption).
- Prepare a scientific report on activities and write scientific articles.

Minimum profile required

- Ability to develop models for thermal storage management in buildings.
- Knowledge of optimization models in the context of energy systems.
- Knowledge of phase change materials (PCM) and their application in cooling systems.
- Knowledge of programming (e.g., Python).
- Fluency in English (written and spoken).

Preference factors

- Experience in thermal energy modelling of buildings.
- Experience in modelling thermal storage systems, specifically phase change materials (PCM), in tertiary buildings.
- Experience in the application and evaluation of predictive optimization modules.

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.

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Application Period

Since 16 Jan 2025 to 16 Feb 2025

Centre

Power and Energy Systems

Scientific Advisor

[Zenaida Mourão](#)

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.

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Contact Information

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

Contact

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