

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

Direct Link: <https://www.AcademicKeys.com/r?job=251771>

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

<b>Job Title</b>	INESC TEC   Research Grant (AE2025-0004)
<b>Department</b>	CPES
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Jan. 16, 2025
<b>Application Deadline</b>	Feb. 16, 2025
<b>Position Start Date</b>	Jan. 16, 2025
<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/5251">https://www.inesctec.pt/en/form/notice/5251</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

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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