

**INESC TEC | Research Grant (AE2025-0021)**  
**INESC TEC**

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Posted Jan. 24, 2025, set to expire May 26, 2025

<b>Job Title</b>	INESC TEC   Research Grant (AE2025-0021)
<b>Department</b>	CPES
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Jan. 24, 2025
<b>Application Deadline</b>	Feb. 13, 2025
<b>Position Start Date</b>	Jan. 23, 2025
<b>Job Categories</b>	Graduate Student Graduate Student
<b>Academic Field(s)</b>	Electrical and/or Electronics Electrical and/or Electronics Engineering - Other Engineering - Other
<b>Apply Online Here</b>	<a href="https://www.inesctec.pt/en/form/notice/5267">https://www.inesctec.pt/en/form/notice/5267</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

Research Opportunities

**Power Systems - Converter dominated power grids**

**Work description**

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- Survey of the state of the art regarding the use of grid forming inverters in power grids, either exploiting energy storage systems as well as endowing renewables power conversion stages with this type of functionalities.
- Develop a PHIL-based simulation set suited for off-line and on-line studies exploiting equipment existing in the smart grids laboratory.
- Identification of innovative methodologies for coordination strategies of grid forming inverters using advanced systems and tools exploiting PMU-based information.
- Exploit the experimental set-up for proof-of-concept of the proposed methodologies.
- Writing Q1 journal papers.

### **Academic Qualifications**

- Electrotechnical engineering

### **Minimum profile required**

- Solid academic knowledge in electrical power systems.

### **Preference factors**

- Knowledge of computational simulation tools (for example, Matlab, PSCAD, PSSE or DIgSILENT PowerFactory).
- Proficiency in English (written and spoken).
- Relevant academic or practical knowledge in control theory and power electronics.

### **Application Period**

Since 23 Jan 2025 to 13 Feb 2025

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### Centre

Power and Energy Systems

### Scientific Advisor

[Carlos Moreira](#)

### 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

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**Contact**

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