

INESC TEC | Research Grant (BI) (AE2024-0020)  
INESC TEC

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Posted Jan. 25, 2024, set to expire May 26, 2024

<b>Job Title</b>	INESC TEC   Research Grant (BI) (AE2024-0020)
<b>Department</b>	CPES
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Jan. 25, 2024
<b>Application Deadline</b>	Feb. 7, 2024
<b>Position Start Date</b>	Jan. 25, 2024
<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/opportunities/power-systems-AE2024-0020">https://www.inesctec.pt/en/opportunities/power-systems-AE2024-0020</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

Research Opportunity

## Power Systems

### Work description

1. Characterize the state of the art in the field of hybrid storage systems and perspectives of their evolution taking into account different use cases;
2. Contribute to the development and implementation of tools in the energy area, involving hybrid

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storage systems, renewable production, isolated systems, system services, system dynamics and stability;

3. Develop APIs for the exchange of information between systems and to enable interaction between new tools and existing platforms;
4. Specify virtual power plants and their functional applications based on hybrid storage systems and aiming at providing specific system services.
5. Attend a curricular unit of transversal competences;
6. Write the grant activity report.

### Minimum profile required

- Knowledge in programming;
- Fluency in English (written and spoken).

### Preference factors

- Capability to analyze and process data relating to the operation and control of energy systems;
- Experience or knowledge of fundamental concepts of dynamics and stability of isolated systems;
- Experience or knowledge of energy conversion systems for storage devices or renewable systems;
- Knowledge of Python (or similar);
- Knowledge in the area of energy transition and digitalization;
- Knowledge of electrical energy storage systems.

### Application Period

Since 25 Jan 2024 to 07 Feb 2024

### Cluster / Centre

Power and Energy / Power and Energy Systems

### Scientific Advisor

Filipe Joel Soares

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**Contact Information**

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