

INESC TEC | Research Grant (AE2024-0478)
INESC TEC

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Posted Nov. 20, 2024, set to expire Mar. 22, 2025

Job Title	INESC TEC Research Grant (AE2024-0478)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Nov. 20, 2024
Application Deadline	Dec. 14, 2024
Position Start Date	Nov. 14, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunities

Power Systems - Multi-energy microgrids operation and planning

Work description

- Characterize the state of the art in the field of multi-energy microgrids taking into account different use cases;
- Contribute to the specification, design, development and implementation of tools in the energy area, involving microgrids operation and planning, multi-energy resources and forecasting of load and renewable production;

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- Specify the exchange of information between systems and develop APIs to enable interaction between new tools and existing platforms;
- Participate in the elaboration of use cases and services related to the optimization of microgrids;
- Attend a curricular unit of transversal competences;
- Write the grant activity report.

Academic Qualifications

- PhD student in electrical engineering or other similar field

Minimum profile required

- Knowledge of simulation tools for power systems;
- Knowledge in programming;
- Fluency in English and Portuguese (written and spoken).

Preference factors

- Knowledge of fundamental concepts of multi-energy systems and microgrids;
- Knowledge of optimization and forecasting models;
- Knowledge of Python (or similar);

Application Period

Since 14 Nov 2024 to 14 Dec 2024

Centre

Power and Energy Systems

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Scientific Advisor

[Filipe Joel 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.

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Contact

Portugal

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