

INESC TEC | Research Grant (AE2025-0146) INESC TEC

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Posted Mar. 26, 2025, set to expire Jul. 26, 2025

Job Title	INESC TEC Research Grant (AE2025-0146)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Mar. 26, 2025
Application Deadline	Apr. 2, 2025
Position Start Date	Mar. 20, 2025
Job Categories	Graduate Student
Academic Field(s)	Mechanical Engineering Electrical and/or Electronics Engineering - Other
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Job Description	

Research Opportunities

Electrotechnical Engineering

Work description

- Identify and select the physical models that will serve as the basis for developing the energy consumption models, for example, for the Onshore Power Supply.
- Development of the algorithms that will allow the modelling of the consumption of the different

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- assets and equipment that support the ports logistics activities.
- Python implementation of the developed algorithms.
- Supporting the integration of the modules developed into energy management platforms and tools for ports.
- Prepare a scientific report on activities and write scientific articles.

Academic Qualifications

- Electrotechnical Engineering, Mechanical Engineering, or similar.

Minimum profile required

- Basic knowledge of energy systems, namely demand models for different sectors and integration with decarbonized energy vectors.
- Knowledge of the Python programming language, or similar.
- Fluency in English (written and spoken).

Preference factors

- Experience in developing energy consumption models in ports environment.
- Programming skills in Python or similar.
- Knowledge of decarbonization plans at European and national level.

Application Period

Since 20 Mar 2025 to 02 Apr 2025

Centre

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Power and Energy Systems

Scientific Advisor

[Tiago André Soares](#)

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- A multicultural, international and collaborative environment that makes it easier to exchange ideas, work in networks and create synergies.
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- Annual informal events, such as the multicultural party.

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Contact Information

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Contact

Portugal

Contact E-mail rh@inesctec.pt