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Posted Sep. 18, 2025, set to expire Jan. 10, 2026

Job Title INESC TEC | Technical Staff (AE2025-0393)

Department CPES

Institution INESC TEC

PORTO, , Portugal

Date Posted Sep. 18, 2025

Application Deadline Sep. 19, 2025 **Position Start Date** Sep. 8, 2025

Job Categories Graduate Student

Academic Field(s) Engineering - Other

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Job Description

Opportunities

Software Engineering and API Development for Power Systems

Work description

The work focuses on the development and integration of software components within the NEXUS project. Core activities include the design and implementation of APIs for several tools, such as grid operation, load forecasting, PV and wind forecasting, and load simulator.

The tasks also cover server deployment, the development of an intuitive and dynamic dashboard, and



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ensuring seamless interaction between the APIs and the NEXUS platform. The activities also include coordinating the work with the in-fabric software team of the Centre for Power and Energy Systems (CPES). Additionally, the role involves simulation, testing, and validation, as well as preparing technical documentation, reports, and scientific publications.

Academic Qualifications

• Electrical engineering, computer science, applied mathematics, computer science, or similar.

Minimum profile required

- Basic knowledge in the development of APIs.
- Knowledge in the Python programming language.
- Fluency in English (written and spoken).

Preference factors

- Experience in the Python programming language.
- Knowledge in API development.
- Knowledge in docker containers.
- Knowledge of backend and frontend programming.

Application Period

Since 08 Sep 2025 to 19 Sep 2025

Centre

Power and Energy Systems



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Scientific Advisor

Tiago André Soares

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Contact Information

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Contact

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