

INESC TEC | Doctorate in the field of Energy System
Digitalization (AE2024-0163)
INESC TEC

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Job Title	INESC TEC Doctorate in the field of Energy System Digitalization (AE2024-0163)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Apr. 29, 2024
Application Deadline	May 29, 2024
Position Start Date	Apr. 29, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunity

Energy System Digitalization

Work description

Leading the implementation of R&D projects in the digitalisation of energy systems, including developing digital twins, ontologies and semantic interoperability in the context of energy transition and digitalisation of ports, buildings and local energy systems (e.g. energy communities). In particular: Lead the coordination and implementation of R&D projects aimed at digitalising energy systems, focusing on semantic interoperability to ensure cohesive communication between diverse digital platforms; Spearhead the strategic development and deployment of digital twin technologies, enhancing their

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functionality within energy management systems in several domains (i.e., ports, buildings, and energy communities); Develop and refine architectures and data models to advance semantic interoperability, utilising open and standardised models for accurate and efficient semantic representation; Oversee the creation of information integrators and data connectors as core components of the interoperability framework, facilitating robust data exchange across various systems. Manage and mentor teams, driving scientific output targeted at prominent international journals and conferences; Engage and lead in professional and scientific communities, championing initiatives in technological dissemination; Prepare and manage comprehensive R&D project applications to secure national and international funding, aligned with the scientific and innovation strategy of the centre.

Academic Qualifications

Electrical and Computer Engineering, Computer Sciences, Mechanical Engineering, or a closely related field or professional curriculum showing a relevant profile for the position.

Minimum profile required

- Extensive experience in developing proposals and obtaining funding for digitalisation projects, particularly those focusing on semantic interoperability.
- Demonstrated expertise in implementing standard models and developing sophisticated data connectors for enhancing system interoperability.
- Proven track record in project management, focusing on innovation and scientific excellence.
- Excellent teamwork and collaboration skills, with fluency in English mandatory; Portuguese proficiency is desirable.

Preference factors

- Post-doctoral research experience, specifically in the digitalisation of energy systems, focused on semantic interoperability.
- A robust publication record in the specified areas, featuring at least five articles in international Q1 journals.

SALARY LEVEL In accordance with article 15 of the RJEC and article 2 of Regulatory Decree no. 11-A/2017, of 29 December, the gross monthly base remuneration to be awarded is based on remuneration level 1 of the Investigador Júnior category of the Public Scientific Research Career Statute, with INESC TEC apply

Application Period

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Since 29 Apr 2024 to 29 May 2024

Centre

Power and Energy Systems

Scientific Advisor

Zenaida Mourão

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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