

INESC TEC | Doctorate Researcher (AE2024-0269)  
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=242474>

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Posted Aug. 1, 2024, set to expire Dec. 1, 2024

<b>Job Title</b>	INESC TEC   Doctorate Researcher (AE2024-0269)
<b>Department</b>	CPES
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Aug. 1, 2024
<b>Application Deadline</b>	Aug. 18, 2024
<b>Position Start Date</b>	Jul. 18, 2024
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Engineering - Other
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<b>Job Description</b>	

Research Opportunity

**Energy System Digitalization - Smart Buildings**

**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:

1. Lead the coordination and implementation of R&D projects aimed at digitalising energy systems,

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focusing on semantic interoperability to ensure cohesive communication between diverse digital platforms.

2. Spearhead the strategic development and deployment of digital twin technologies, enhancing their functionality within energy management systems in several domains (i.e., ports, buildings, and energy communities).
3. Develop and refine architectures and data models to advance semantic interoperability, utilising open and standardised models for accurate and efficient semantic representation.
4. Oversee the creation of information integrators and data connectors as core components of the interoperability framework, facilitating robust data exchange across various systems.
5. Manage and mentor teams, driving scientific output targeted at prominent international journals and conferences.
6. Engage and lead in professional and scientific communities, championing initiatives in technological dissemination.
7. 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

### **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.

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### 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 3 of the Investigador Júnior category of the Public Scientific Research Career Statute, with INESC TEC applying its own remuneration table for R&D doctoral employees, with a value of €2893.81 for the equivalent category.

### Application Period

Since 18 Jul 2024 to 18 Aug 2024

### Centre

Power and Energy Systems

### Scientific Advisor

[Zenaida Mourão](#)

### 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.

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**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact**

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