

INESC TEC | Post Doctoral Research Grant (AE2025-0220)  
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=257303>

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Posted May 23, 2025, set to expire Sep. 21, 2025

<b>Job Title</b>	INESC TEC   Post Doctoral Research Grant (AE2025-0220)
<b>Department</b>	CPES
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	May 23, 2025
<b>Application Deadline</b>	Jun. 5, 2025
<b>Position Start Date</b>	May 22, 2025
<b>Job Categories</b>	Graduate Student Post-Doc
<b>Academic Field(s)</b>	Engineering - Other Electrical and/or Electronics
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<b>Apply By Email</b>	
<b>Job Description</b>	

## Research Opportunities

### Electrical Engineering

## Work description

- Characterize the state of the art in the field of multi-energy microgrids taking into account different use cases.

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- 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.
- 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.

### Minimum profile required

- Advanced knowledge and experience with optimization and forecasting models and techniques.
- Advanced knowledge and programming experience in Python.
- Fluency in English and Portuguese (written and spoken).

### Preference factors

- Knowledge of fundamental concepts related to microgrids and multi-energy systems.
- Experience with modeling and simulation of seaport energy systems.

**Maintenance stipend:** € 1851.00, according to the table of monthly maintenance stipend for FCT grants, paid via bank transfer. Grant holders may be awarded potential supplements, according to a quarterly evaluation process (Articles 19, 21 and 22 of the Regulations for Grants of INESC TEC and Annex II), up to a maximum limit of 50% of the monthly maintenance stipend.

INESC TEC supports costs with registration, enrollment or tuition fees, during the grant duration, under the terms established in the internal document: "Payment of Tuition fees to grant holders".

The grant holder will benefit from health insurance, supported by INESC TEC.

### Application Period

Since 22 May 2025 to 05 Jun 2025

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## Centre

Power and Energy Systems

## 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](#)

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**Contact Information**

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

**Contact**

Portugal

**Contact E-mail**      rh@inesctec.pt