

INESC TEC | Post Doctoral Research Grant (AE2024-0190)
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=236259>

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Posted May 17, 2024, set to expire Sep. 16, 2024

Job Title	INESC TEC Post Doctoral Research Grant (AE2024-0190)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	May 17, 2024
Application Deadline	Jun. 13, 2024
Position Start Date	May 19, 2024
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics Engineering - Other
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Job Description

Research Opportunity

Electrical engineering

Work description

The objective is to develop real-time control algorithms for microgrids, enabling secure islanding from the main grid. The algorithms developed will be tested under a real-time simulation model and Power

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Hardware In the Loop Infrastructure (PHIL) installed at INESC TEC Smart Grid and Electric Vehicles Laboratory.

Minimum profile required

Knowledge in power system dynamics; Knowledge in modelling and simulation under MATLAB/Simulink or Power Factory DigSilent.

Preference factors

- Experience in modelling and simulation of microgrid systems;
- Programming experience (python);
- Experience in real-time digital simulators (OPAL-RT).

Maintenance stipend: € 1801,00, 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, enrolment or tuition fees, during the grant duration, under the terms established in the internal document: "Payment of Tuition fees to grant holders".

Application Period

Since 16 May 2024 to 13 Jun 2024

Centre

Power and Energy Systems

Scientific Advisor

Clara Sofia Gouveia

What we offer

- **Multicultural and collaborative environment**

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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](#)

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