

INESC TEC | Research Initiation Grant (AE2024-0340) INESC TEC

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Posted Aug. 16, 2024, set to expire Dec. 16, 2024

Job Title	INESC TEC Research Initiation Grant (AE2024-0340)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Aug. 16, 2024
Application Deadline	Aug. 23, 2024
Position Start Date	Aug. 8, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunity

Electrical Engineering

Work description

- To develop competences in the area of microgrids by reviewing state-of-the-art related to the operation of microgrids and the operation of hybrid storage systems;
- Support the development and consolidation of the laboratory test system for the AC/DC microgrid;
- Support the development and integration of an energy storage system in the laboratory,

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considering integration not only with the laboratory's electrical infrastructure, but also with the real-time simulation system and the laboratory's monitoring and control system.

Minimum profile required

- Knowledge in energy storage technologies;
- Academic expertise in power electronics;
- Knowledge of programming (Python and C++).

Preference factors

- Knowledge of control strategies;
- Expertise in managing battery charging and discharging processes;
- Knowledge of the use of current and voltage sensors;
- Knowledge of the use of microcontrollers;
- Fluency in English (spoken and written).

Maintenance stipend: € 601,12, 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".

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

Application Period

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Since 08 Aug 2024 to 23 Aug 2024

Centre

Power and Energy Systems

Scientific Advisor

[Tatiana Guedes](#)

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