

INESC TEC | Research Grant (AE2024-531)
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=250421>

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Posted Dec. 13, 2024, set to expire Apr. 14, 2025

Job Title	INESC TEC Research Grant (AE2024-531)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Dec. 13, 2024
Application Deadline	Jan. 12, 2025
Position Start Date	Dec. 12, 2024
Job Categories	Graduate Student
Academic Field(s)	Electrical and/or Electronics Engineering - Other
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Job Description	

Research Opportunities

Electrical Engineering

Work description

1) Development of artificial intelligence solutions to support plant O&M teams.

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- 2) Analysis of data from SCADA systems and DTs to diagnose faults and malfunctions, and simulation of future scenarios related to the impact of O&M strategies.
- 3) Digital modeling of components and equipment, such as battery banks and electrolysers, to business models applied to O&M.
- 4) Dissemination of work in international journals and/or conferences.

Minimum profile required

- Advanced knowledge of electrical power systems, specifically PV systems, batteries and renewable energy sources in general.

Preference factors

- Past experience (or academic training) with low, medium and high power photovoltaic systems.
- Academic training in operational research.
- Programming skills in Python and MATLAB Script.
- Programming skills in Open Modelica and Simulink.
- Knowledge of Machine Learning algorithms.

Maintenance stipend: € 1259,64, 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".

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

Application Period

Since 12 Dec 2024 to 12 Jan 2025

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**

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- 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