

INESC TEC | Research Grant (AE2024-0246) INESC TEC

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Posted Jul. 11, 2024, set to expire Nov. 10, 2024

Job Title	INESC TEC Research Grant (AE2024-0246)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Jul. 11, 2024
Application Deadline	Aug. 11, 2024
Position Start Date	Jul. 11, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
Apply Online Here	https://www.inesctec.pt/en/opportunities/electrical-engineering-power-electronics-and-artificial-intelligence-AE2024-0246#intro
Apply By Email	
Job Description	

Research Opportunity

Electrical Engineering - Power Electronics and Artificial Intelligence

Work description

1. Development of AI solutions to support O&M staff of PVPP.
2. Data analysis of SCADA and DT data for fault and failure diagnosis, and long-term simulation of different O&M strategies impact.

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3. Digital modelling of emerging components/assets, such as battery storage and electrolyzers, for O&M and business model evaluation.
4. Dissemination of the work in international journals and/or conferences.

Minimum profile required

- Previous academic training in electrical engineering or similar
- Programming skills in MATLAB Simulink and Python
- Knowledge of energy systems or renewable energy

Preference factors

- Knowledge of system modeling in Open Modelica
- Knowledge of machine learning Knowledge in power electronics

Maintenance stipend: € 990,98 or 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".

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

Application Period

Since 11 Jul 2024 to 11 Aug 2024

Centre

Power and Energy Systems

Scientific Advisor

Tatiana Guedes

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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](#)

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