

INESC TEC | Research Grant (AE2024-0542) INESC TEC

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

Job Title	INESC TEC Research Grant (AE2024-0542)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Dec. 13, 2024
Application Deadline	Dec. 30, 2024
Position Start Date	Dec. 12, 2024
Job Categories	Graduate Student
Academic Field(s)	Energy Technology Engineering - Other
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Job Description	

Research Opportunities

Power Systems - Renewable Energy Communities operation and planning

Work description

- Characterize the state of the art in the field of energy communities and the optimization algorithms for their operation.
- Contribute to the specification, development of algorithms for optimization of energy communities.
- Specify and design incentive mechanisms for the exchange of energy consumption related data.

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- Develop and implement an algorithm to encourage data exchanges with successful testing on a platform with user data.
- Carry out a curricular unit of transversal skills; - write the scholarship activity report.

Minimum profile required

- Master in electrical engineering, energy systems, mathematics or other similar field.
- Knowledge of algorithm development and programming.
- Fluency in English and Portuguese (written and spoken).

Preference factors

- Knowledge of fundamental concepts related to renewable energy communities.
- Knowledge of optimization and forecasting models.
- Knowledge of Python (or similar).

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".

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

Application Period

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Since 12 Dec 2024 to 30 Dec 2025

Centre

Power and Energy Systems

Scientific Advisor

[Alexandre Lucas](#)

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