

INESC TEC | Research Grant (AE2024-0237) INESC TEC

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

Job Title	INESC TEC Research Grant (AE2024-0237)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Jul. 11, 2024
Application Deadline	Jul. 8, 2024
Position Start Date	Jun. 11, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunity

POWER SYSTEMS - DISTRIBUTED ENERGY RESOURCES

Work description

InterSTORE's overall vision is to deploy and demonstrate a set of interoperable, open-source tools to integrate distributed energy storage (DES) and distributed energy resources (DER), to enable the hybridization, utilization, and monetization of energy flexibility. storage, within a real-life environment.

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The outcome of the project will allow several DES, DER and several new generation Energy Management Systems (EMS) to be integrated by different stakeholders, while demonstrating the added value of connecting assets to the common data space, returning to Uncertainty and, consequently, increasing freedom on the part of technology adopters and end users.

The main objectives of the grant are:

1) Apply data analytics and identify energy use cases for valuing data from Connected dataspace. 2) Perform integration and baseline creation for EVs and other generic loads to be supplied by hybrid storage systems.

Minimum profile required

- Academic background in electrical engineering, computer science, mathematics, industrial engineering, informatics or similar;
- Programming knowledge in Python
- Fluent in English

Preference factors

- Past experience (or academic background) with energy data analytics;
- Experience with simulation techniques that model the behavior of individual agents (organizations or people), and their interactions in a system;
- Academic background experience and research oriented

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

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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](#)

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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Portugal

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