

INESC TEC | Research Initiation Grant (AE2025-0121) INESC TEC

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Posted Mar. 17, 2025, set to expire Jul. 14, 2025

Job Title	INESC TEC Research Initiation Grant (AE2025-0121)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Mar. 17, 2025
Application Deadline	Mar. 20, 2025
Position Start Date	Mar. 7, 2025
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other Electrical and/or Electronics
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Job Description	

Research Opportunities

Electrical Engineering

Work description

- Study of P2H systems, considering the identification of system components and their respective technologies.
- Mathematically formulate the sizing problem of P2H plants and implement/integrate it in the asset

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sizing tool for energy communities (SITEC).

- Formulate the operational problem of P2H systems within an industrial energy community environment and implement it in the energy community operation tool (OSTEC).
- Writing of a technical report and scientific articles.

Minimum profile required

- Knowledge in one programming language.
- Basic knowledge of research procedures.
- Proficiency in the Portuguese (spoken and written).

Preference factors

- Experience with Python and Pyomo.
- Fluency in English (spoken and written).
- Knowledge of green hydrogen production systems.

Maintenance stipend: € 651,12, 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.

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Application Period

Since 07 Mar 2025 to 20 Mar 2025

Centre

Power and Energy Systems

Scientific Advisor

[Tiago André Soares](#)

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.

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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