

INESC TEC | Research Grant (AE2025-0212)
INESC TEC

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Posted May 23, 2025, set to expire Sep. 21, 2025

Job Title	INESC TEC Research Grant (AE2025-0212)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	May 23, 2025
Application Deadline	Jun. 22, 2025
Position Start Date	May 22, 2025
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other Computer Science Electrical and/or Electronics
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Job Description	

Research Opportunities

COMPUTER SCIENCE - Artificial Intelligence

Work description

1) Hybridization of physics-based modelling and AI to create decision-support models for human operators under forecast uncertainty.

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- 2) Distributed learning algorithms and coordination strategies to achieve a global goal where, for instance, aspects such as energy consumption (green AI) is covered by testing their implementation in edge devices.
- 3) Validate the developed methodologies on real data and different use cases focused on energy transition.
- 4) Dissemination of the work in international journals and/or conferences

Minimum profile required

- Previous academic background in applied mathematics or computer science or informatics or electrical engineering or similar.

Preference factors

- Past experience (or academic background) with supervised and reinforcement learning.
- Academic background in operations research.
- Programming knowledge in Python.

Maintenance stipend: € 1040.98 or 1309.64, 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, enrollment 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 22 May 2025 to 22 Jun 2025

Centre

Power and Energy Systems

Scientific Advisor

[Ricardo Jorge Bessa](#)

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

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