

INESC TEC | Post Doctoral Research Grant (AE2024-0262)
INESC TEC

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

Job Title	INESC TEC Post Doctoral Research Grant (AE2024-0262)
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
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Job Description	

Research Opportunity

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

Academic Qualifications

PhD degree in: Applied Mathematics; Physics; Computer Science; Electrical and Computer Engineering; Industrial Engineering or similar

Minimum profile required

- Past experience with supervised and reinforcement learning;
- Python programming skills;
- A minimum of 2 publications in Q1 journals.

Preference factors

- Experience in applying reinforcement learning algorithms to engineering problems;
- Knowledge or experience of energy systems problems.

Maintenance stipend: € 1801,00, 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

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.

For more information: [Click here](#)

Contact Information

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

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Contact

Portugal

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