

INESC TEC | Doctor Researcher (AE2024-0536)
INESC TEC

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

Job Title	INESC TEC Doctor Researcher (AE2024-0536)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Dec. 13, 2024
Application Deadline	Jan. 12, 2025
Position Start Date	Dec. 12, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other Energy Technology
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Job Description	

Research Opportunities

Energy systems – energy systems modelling

Work description

- Characterization of different energy systems modelling tools and existing models at the national and regional levels.
- Development of energy systems models, both at national and regional levels.
- Collection, processing, and analysis of data related to energy consumption, production, and

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efficiency.

- Definition and analysis of future scenarios for implementing decarbonization policies.
- Validation of the developed models using real-data and analysis of performance metrics.
- Writing reports and scientific papers.

Minimum profile required

- PhD in Sustainable Energy Systems or similar.
- Competences on using energy systems modelling tools.
- Programming skills (Python, MATLAB, etc.).
- Autonomous and teamwork ability.

Preference factors

- Competences on energy systems analysis.
- Competences on decarbonization policies analysis.
- Competencies on energy systems optimization.

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.

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Application Period

Since 12 Dec 2024 to 12 Jan 2025

Centre

Power and Energy Systems

Scientific Advisor

[Hermano Bernardo](#)

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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