INESC TEC | RESEARCHER (AE2024-0378)
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Job Title	INESC TEC	RESEARCHER (AE2024-0378)
Department	CPES
Institution	INESC TEC
	PORTO, , Portugal
Date Posted	Sep. 12, 2024
Application Deadline	Sep. 25, 2024
Position Start Date	Sep. 12, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
	Computer Engineering
	Electrical and/or Electronics
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Apply By Email	
Job Description	

Research Opportunities

Electrical Engineering

Work description

The work to be carried out by the researcher falls within the context of planning the expansion of electrical power systems with high integration of renewable energy production, storage, and new loads such as electric vehicles and hydrogen production.

The objective is focused on the development of simulation tools for the operation of power systems, both interconnected and isolated systems, for the quantification of costs and utilization of renewable energy.

The tools will be used to define optimal reinforcement plans for power systems.

Academic Qualifications

Bachelor or Master in electrical and computer engineering; energy systems; other related.

Minimum profile required

- Experience in electrical power systems and reliability assessment;
- Use and parameterization of learning algorithms based on historical data (e.g. Artificial Neural Networks);
- Programming skills in MATLAB and Phyton;
- Fluency in English (spoken and written).

Preference factors

- Experience in power system optimization and Sequential Monte Carlo Simulation;
- Fluency in Portuguese (spoken and written).

Application Period

Since 12 Sep 2024 to 25 Sep 2024

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Centre

Power and Energy Systems

Scientific Advisor

Ignacio Gil

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

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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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