

INESC TEC | Research Initiation Grant (AE2024-0524) INESC TEC

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Posted Dec. 6, 2024, set to expire Apr. 7, 2025

Job Title	INESC TEC Research Initiation Grant (AE2024-0524)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Dec. 6, 2024
Application Deadline	Dec. 19, 2024
Position Start Date	Dec. 6, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunities

Electrotechnical

Work description

- Study and identification of the main characteristics of INESC TEC's optimal power flow tool, including all modeled energy resources.
- Study and modeling of two-stage stochastic programming and robust optimization problems.
- Adaptation of the tool formulation to stochastic and robust optimization.

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- Implementation of the two-stage stochastic formulation in the existing tool, creating a specific module for its operation.
- Replication of the previous point for the formulation of the robust OPF.
- Prepare a scientific report on activities and write scientific articles.

Academic Qualifications

Training in electrical engineering, computer science, applied mathematics, computer science or similar

Minimum profile required

- Basic knowledge of the optimal power flow problem.
- Basic knowledge of optimization.
- Knowledge of the Python programming language.
- Fluency in English (written and spoken).

Preference factors

- Experience in the study, development and implementation of optimal power flow in Python.
- Experience in modeling problems with stochastic and robust optimization.
- Programming skills in Python.

Application Period

Since 06 Dec 2024 to 19 Dec 2024

Centre

Power and Energy Systems

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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.

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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