

INESC TEC | Research Initiation Grant (AE2025-0208)

INESC TEC

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

Job Title	INESC TEC Research Initiation Grant (AE2025-0208)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	May 23, 2025
Application Deadline	Jun. 5, 2025
Position Start Date	May 22, 2025
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other Electrical and/or Electronics
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Job Description	

Research Opportunities

Electrical Engineering

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.

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- Adaptation of the tool formulation to stochastic and robust optimization.
- 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.

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.

Maintenance stipend: € 651.12, 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.

Application Period

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Since 22 May 2025 to 05 Jun 2025

Centre

Power and Energy Systems

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](#)

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Contact Information

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

Contact

Portugal

Contact E-mail rh@inesctec.pt