

INESC TEC | Doctorate Researcher (AE2024-0233)
INESC TEC

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Posted Jun. 28, 2024, set to expire Oct. 28, 2024

Job Title	INESC TEC Doctorate Researcher (AE2024-0233)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Jun. 28, 2024
Application Deadline	Jul. 27, 2024
Position Start Date	Jun. 27, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
Apply Online Here	https://www.inesctec.pt/en/opportunities/development-of-optimization-models-and-cost-benefit-analysis-in-renewable-energy-communities-and-smart-grids-regarding-operation-and-management-AE2024-0233

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Job Description

Research Opportunity

Development of optimization models and cost-benefit analysis in Renewable Energy Communities and smart grids regarding operation and management

Work description

To provide the necessary tools and technologies for the optimization of energy communities and all

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their assets, while exploring the feasibility of associated alternative business models. To this end, it will focus on the following:

- Optimization - variable flexibility to improve energy management within and outside the community, with innovative technologies already in use, such as storage, bidirectional EV chargers, peer-to-peer energy trading, virtual aggregation, etc.
- Decarbonization - sustainability variable to reduce emissions associated with energy consumption/generation by using small-scale renewable sources and technologies to replace carbon-emitting sources (electric vehicle charging, heat pumps, etc.)
- Energy Costs - economic variable to reduce the electricity costs of customers/members by reducing grid consumption and enhancing individual and collective self-consumption by other members of the energy community.

Academic Qualifications

PhD in Electrical Engineering, Sustainable Energy, or Mathematics

Minimum profile required

- Knowledge of Python programming and/or optimization software;
- Ability to work autonomously or as part of a team;
- Fluency in English (written and spoken), data modelling skills.

Preference factors

- Solid programming skills (python, R).
- Skills in Machine Learning.
- Publications in the scientific advertised

SALARY LEVEL

In accordance with article 15 of the RJEC and article 2 of Regulatory Decree no. 11-A/2017, of 29 December, the gross monthly base remuneration to be awarded is based on remuneration level 1 of the Investigador Júnior category of the Public Scientific Research Career Statute, with INESC TEC applying its own remuneration table for R&D doctoral employees, with a value of €2348.34 for the equivalent category.

Application Period

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Since 27 Jun 2024 to 27 Jul 2024

Centre

Power and Energy Systems

Scientific Advisor

[Alexandre Lucas](#)

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Contact Information

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Contact

Portugal

Contact E-mail rh@inesctec.pt