

**INESC TEC | RESEARCHER (AE2024-0378)**  
**INESC TEC**

Direct Link: <https://www.AcademicKeys.com/r?job=245495>

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Posted Sep. 20, 2024, set to expire Jan. 20, 2025

<b>Job Title</b>	INESC TEC   RESEARCHER (AE2024-0378)
<b>Department</b>	CPES
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Sep. 20, 2024
<b>Application Deadline</b>	Sep. 26, 2024
<b>Position Start Date</b>	Sep. 13, 2024
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Engineering - Other
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<b>Apply By Email</b>	
<b>Job Description</b>	

Research Opportunities

**Power Systems**

**Work description**

- Development of a platform to enable new energy efficiency and flexibility services for electricity end users, through automatic interface, support and decision systems;
- Definition of operational requirements of hybrid energy storage and generation systems, with inclusion of electricity market services and flexibility portfolio exploration;
- Optimize the scheduling of controllable/dispatchable loads in coordination with local photovoltaic

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production;

- Validation and benchmark of a potential energy management solution for optimal self-consumption services;
- Dissemination of the work in international journals and/or conferences.

### **Academic Qualifications**

Bachelor or Master in applied mathematics, computer science, informatics, electrical and electronic engineering or similar.

### **Minimum profile required**

- Previous academic background in electric power systems or similar;
- Knowledge or experience of energy systems problems;
- Experience in applying optimization algorithms to engineering problems.

### **Preference factors**

- Python and Machine Learning programming skills;
- Knowledge of power system control and frequency response;
- Experience with energy management system (EMS) development.

### **Application Period**

Since 13 Sep 2024 to 26 Sep 2024

### **Centre**

Power and Energy Systems

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### Scientific Advisor

[Vasco Manuel Campos](#)

### 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

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**Contact**

Portugal

**Contact E-mail**    rh@inesctec.pt