

**INESC TEC | Research Grant (AE2024-0224)**  
**INESC TEC**

Direct Link: <https://www.AcademicKeys.com/r?job=238025>

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Posted Jun. 21, 2024, set to expire Oct. 21, 2024

<b>Job Title</b>	INESC TEC   Research Grant (AE2024-0224)
<b>Department</b>	CPES
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Jun. 21, 2024
<b>Application Deadline</b>	Jul. 8, 2024
<b>Position Start Date</b>	Jun. 20, 2024
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Engineering - Other
<b>Apply Online Here</b>	<a href="https://www.inesctec.pt/en/opportunities/power-systems-design-and-optimization-of-the-electrical-system-of-hybrid-offshore-parks-AE2024-0224#intro">https://www.inesctec.pt/en/opportunities/power-systems-design-and-optimization-of-the-electrical-system-of-hybrid-offshore-parks-AE2024-0224#intro</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

Research Opportunity

**Power systems – Design and optimization of the electrical system of hybrid offshore parks**

**Work description**

- Development of the frameworks for the design and optimization of the layout of hybrid offshore parks regarding the presence of wind turbines, wave energy converters, and floating photovoltaic systems.
- Development of the frameworks for reliability-oriented techno-economic optimization of the electrical system of the hybrid offshore parks.

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- Development of the optimization tools for the layout and electrical system design of the hybrid offshore parks. Preparation of reports based on the results/findings and dissemination of the work in papers.

### Minimum profile required

- Experience in the optimization studies in the area of the electrical energy systems.
- Basic knowledge in the area offshore renewable energy parks and the electrical energy collection systems.

### Preference factors

- Experience in research studies regarding multi-source offshore renewable energy parks.
- Experience in the implementation of electrical system optimization for renewable energy parks using Python.

**Maintenance stipend:** € 990,98 or 1259,64, 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, enrolment 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

Since 20 Jun 2024 to 08 Jul 2024

### Centre

Power and Energy Systems

### Scientific Advisor

[Bernardo Silva](#)

### What we offer

- **Multicultural and collaborative environment**

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- 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.

#### Contact

Portugal

**Contact E-mail**    rh@inesctec.pt