

**INESC TEC | Research Grant (AE2024-0405)**  
**INESC TEC**

Direct Link: <https://www.AcademicKeys.com/r?job=245843>

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Posted Sep. 26, 2024, set to expire Jan. 26, 2025

<b>Job Title</b>	INESC TEC   Research Grant (AE2024-0405)
<b>Department</b>	CAP
<b>Institution</b>	INESC TEC PORTO, , Portugal
<b>Date Posted</b>	Sep. 26, 2024
<b>Application Deadline</b>	Oct. 10, 2024
<b>Position Start Date</b>	Sep. 26, 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/form/notice/5084">https://www.inesctec.pt/en/form/notice/5084</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

Research Opportunities

**Study and development of a fiber optic sensor for monitoring the curing process of concrete structures**

**Work description**

- This scholarship is part of a project to develop and implement optical sensors in an industrial context.
- Different types of sensors will be used to monitor the curing processes of concrete structures supporting offshore wind turbines.

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- This scholarship aims to study and develop optimized optical solutions for monitoring humidity and temperature inside the walls of concrete structures, which would allow measuring their degradation and loss of impermeability.

### **Academic Qualifications**

Bachelor's degree in Physics Engineering

### **Minimum profile required**

- Bachelor's degree in Physics Engineering.
- Knowledge of the operation of optoelectronic systems.
- Microcontroller programming and software development for analysis and control.
- Basic chemistry knowledge.

### **Preference factors**

- Proven experience in: Experimental work with optical fiber. Development of hydrophilic membranes and characterization of their optical properties. Prototype development

### **Application Period**

Since 26 Sep 2024 to 10 Oct 2024

### **Centre**

Applied Photonics

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### Scientific Advisor

[João Pedro Mendes](#)

### 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.

### Contact

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Portugal

**Contact E-mail**    rh@inesctec.pt