

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

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

Job Title	INESC TEC Research Grant (AE2024-0405)
Department	CAP
Institution	INESC TEC PORTO, , Portugal
Date Posted	Sep. 26, 2024
Application Deadline	Oct. 10, 2024
Position Start Date	Sep. 26, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

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