

INESC TEC | Research Grant (AE2024-0145) INESC TEC

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| Job Title | INESC TEC Research Grant (AE2024-0145) |
| Department | CAP |
| Institution | INESC TEC PORTO, , Portugal |
| Date Posted | Apr. 19, 2024 |
| Application Deadline | May 5, 2024 |
| Position Start Date | Apr. 18, 2024 |
| Job Categories | Graduate Student |
| Academic Field(s) | Engineering Physics Engineering - Other |
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| Apply By Email | |
| Job Description | |

Research Opportunity

Development of integrated electronic systems for interrogation of optical sensors

Work description

This grant is part of a project that aims to develop and implement optical sensors in an industrial context. Different types of sensors will be applied to monitor the curing of concrete structures that will support offshore wind turbines, the quality of the surrounding water and gas distribution systems.

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The aim of this grant is to develop optimized interrogation and communication tools for the various types of optical sensors to be developed.

Academic Qualifications

Master in Physics Engineering

Minimum profile required

Advanced experience in:

- Systems for interrogating optical sensors.
- Optoelectronic systems.
- Microcontroller programming.
- Development of analysis and control software.

Preference factors

- Training in fiber optic sensors, development of nanoparticles and strong knowledge in simulation and manufacturing of systems based on plasmonics.
- Experience in design and 3D printing.

Application Period

Since 18 Apr 2024 to 05 May 2024

Maintenance stipend: € 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.

Centre

Applied Photonics

Scientific Advisor

Luís Carlos Coelho

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Contact Information

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Contact E-mail rh@inesctec.pt