

INESC TEC | Research Initiation Grant (AE2024-0275)
INESC TEC

Direct Link: <https://www.AcademicKeys.com/r?job=243517>

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Posted Aug. 22, 2024, set to expire Dec. 22, 2024

Job Title	INESC TEC Research Initiation Grant (AE2024-0275)
Department	CAP
Institution	INESC TEC PORTO, , Portugal
Date Posted	Aug. 22, 2024
Application Deadline	Aug. 31, 2024
Position Start Date	Jul. 25, 2024
Job Categories	Graduate Student
Academic Field(s)	Engineering - Other
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Job Description	

Research Opportunity

Physics, optical sensors, gas sensors, instrumentation

Work description

This scholarship will be carried out within the scope of a project included in the Alliance for the Energy Transition and which aims to develop and implement optical sensors in an industrial context for the detection and monitoring of gases in the energy area.

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It is intended that the scholarship holder develop methodologies for monitoring methane concentration using an optical fiber architecture and carry out experimental validation through manufacturing and subsequent optical characterization.

Academic Qualifications

Degree in Physics Engineering

Minimum profile required

1. Knowledge in the field of optics.
2. Skills in electronics and programming for software development for device simulation and control and analysis of results.

Preference factors

1. Experience with optical fiber for the development of distributed sensors based on attenuation and the Brillouin phenomenon.
2. Knowledge of OTDR-based systems with fiber optics.

Maintenance stipend: € 601,12, 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".

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The grant holder will benefit from health insurance, supported by INESC TEC.

Application Period

Since 25 Jul 2024 to 31 Aug 2024

Centre

Applied Photonics

Scientific Advisor

[Luís Carlos Coelho](#)

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**

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- 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