

INESC TEC | Post Doctoral Research Grant (AE2025-0072)
INESC TEC

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Posted Feb. 14, 2025, set to expire Jun. 16, 2025

Job Title	INESC TEC Post Doctoral Research Grant (AE2025-0072)
Department	CPES
Institution	INESC TEC PORTO, , Portugal
Date Posted	Feb. 14, 2025
Application Deadline	Feb. 27, 2025
Position Start Date	Feb. 13, 2025
Job Categories	Graduate Student
Academic Field(s)	Optics & Optical Engineering Engineering - Other
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Job Description	

Research Opportunities

Development of optical sensors for ocean monitoring

Work description

Water quality is essential for human life and the maintenance of aquatic ecosystems, ranging from rivers to the oceans. Therefore, it is crucial to monitor this resource continuously to ensure its conservation and sustainability. This concern becomes even more important when the focus is on

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ocean exploration. This work aims to study, develop, and implement innovative sensors designed to work in extreme conditions and be capable of providing accurate data on various chemical and biological parameters and serving different applications.

Academic Qualifications

- Chemistry

Minimum profile required

- Proven experience in electrochemical methods for sensor development, targeting chemical and biological entities.
- Advanced knowledge in the development and characterization of plasmonic structures for the detection of chemical and biological targets.

Preference factors

- Experience in the development and handling of opto-electrochemical systems.
- Advanced knowledge in nanoparticle synthesis and optical characterization.
- Advanced knowledge in the synthesis of molecularly imprinted polymers.
- Advanced knowledge in physicochemical characterization techniques.

Salary Level

In accordance with article 15 of the RJEC and article 2 of Regulatory Decree no. 11-A/2017, of 29 December, the gross monthly base remuneration to be awarded is based on remuneration level 1 of the Investigador Júnior category of the Public Scientific Research Career Statute, with INESC TEC applying its own remuneration table for R&D doctoral employees, with a value of €2348.34 for the equivalent category.

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Application Period

Since 13 Feb 2025 to 27 Feb 2025

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**
- Annual informal events, such as the multicultural party.

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

INESC TEC - Instituto De Engenharia De Sistemas E Computadores, Tecnologia E Ciência
Portugal

Phone Number	222094000
Contact E-mail	rh@inesctec.pt