

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2025-0167 (ATE - CAP) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: TECHNOLOGY Sub: Environmental technology, Instrumentation technology, Optronics, Communication technology, Micro-technology

Job summary:

INESC TEC is accepting applications for 1 RESEARCHER job in the Development of an instrumentation system for water quality monitoring

Project:	Alliance for Energy Transition
Scientific Advisor:	Luís Carlos Coelho
Start Date:	2025-05-14
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Development of an instrumentation system for water quality monitoring

Project overview: The high demand for energy production, especially in offshore environments, raises environmental concerns. Understanding the impact of these activities on human life and the ocean is essential. To ensure the viability of expanding and implementing different technologies, it is essential to improve existing technologies and management strategies. This position aims to develop and implement various optical technologies for monitoring industrial effects on the surrounding water.

Objectives: Study appropriate methodologies and develop optical sensors for monitoring various water quality parameters.

Design, implement, and test optoelectronic systems to characterize the sensors developed.

Develop integrated systems with software for control, acquisition, and data analysis.

Apply the detection systems developed in an industrial context.

Academic Qualifications:	Master's degree in physics engineering
Minimum profile required:	Knowledge of optoelectronic systems. Experience in microcontroller programming and in developing software for analysis and control. Knowledge of the Bluetooth protocol for communication between devices.
Preference factors:	Proven experience in experimental work with optical systems. Experience in developing prototypes, including electronic systems. Advanced knowledge in 3D design and prototyping through 3D printing.

Funding Entity:	ATE funded by IAPMEI with reference 56 Co-financed by Component 5 - Capitalization and Business Innovation, integrated in the Resilience Dimension of the Recovery and Resilience Plan within the scope of the Recovery and Resilience Mechanism (MRR) of the European Union (EU), framed in the Next Generation EU, for the period 2021 - 2026.
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Type of contract:	Uncertain term contract The hiring shall be governed by what is stipulated in the legislation in force regarding uncertain term employment contracts and by INESC TEC norms.
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Selection criteria:	The selection of the candidates will be based on the following criteria, in descending order of consideration: a) Relevant Curriculum in the concerned field of this tender b) Proven experience.
Disability Incentive:	Candidates who present a degree of disability equal to or greater than 90% will benefit from an incentive (20) in the score of the CV Assessment. Candidates who present a degree of disability equal to or greater than 60% and less than 90% will also benefit from an incentive (10) in the score of the CV Assessment. Said score may, in these cases, exceed 100 points. Candidates must demonstrate the degree of disability during the application, namely through the submission of the Multi-Purpose Medical Certificate of Disability, issued in accordance with Decree-Law no. 202/96, of October 23 - currently in effect. Candidates must declare, in the application form, the type of disability used throughout the selection process, in order to proceed with the required adaptations.

Selection Jury:	President of the Jury: Luís Carlos Coelho; Member: José Almeida; Member: João Pedro Mendes; Substitute member: Paulo Soares Santos;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2025-04-10 to 2025-04-27
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us

