

## CALL FOR APPLICATIONS: RESEARCHER

### Job/position/grant:

<b>Job reference:</b>	AE2026-0143 ( CAP-Geral - CAP ) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
<b>Job/position/grant:</b>	RESEARCHER
<b>City:</b>	FCUP-INESC TEC
<b>Research field:</b>	Main: TECHNOLOGY Sub: Environmental technology, Instrumentation technology, Optronics, Micro-technology, Communication technology

### Job summary:

<b>INESC TEC is accepting applications for 1 RESEARCHER job in the Development of an instrumentation system for water quality monitoring.</b>	
<b>Scientific Advisor:</b>	João Pedro Mendes
<b>Start Date:</b>	2026-07-01
<b>Location:</b>	FCUP-INESC TEC

### Job description:

<b>Work Area:</b> Development of an instrumentation system for water quality monitoring.
<b>Project overview:</b> Part of INESC TEC's activity focuses on the development of technologies that contribute to increasing sustainability and productivity in aquaculture cultivation and processing, while promoting innovative industrial applications. This position aims to address the challenges of smart aquaculture through the development of low-cost, real-time sensing technologies for the continuous in situ monitoring of key parameters.
<b>Objectives:</b> Develop and optimize optoelectrochemical sensors for sensitive and reliable detection in aquaculture, namely for ammonium ions. Design and validate dual-detection platforms combining plasmonic and electrochemical approaches for real-time monitoring. Establish calibration models, assess analytical performance parameters, develop optical systems for continuous monitoring of algal biomass, and validate prototypes in the laboratory and under real-life conditions.

<b>Academic Qualifications:</b>	Master's degree in physics engineering.
<b>Minimum profile required:</b>	Master's degree in Physics Engineering; Knowledge of optoelectronic systems; Experience in microcontroller programming and in developing software for analysis and control; Knowledge of the Bluetooth and I2C protocols for communication between devices.
<b>Preference factors:</b>	Proven experience in experimental work with optical systems; Experience in developing prototypes, including electronic systems; Proven experience in the development of sensors for aquaculture; Advanced knowledge in 3D design and prototyping through 3D printing.

<b>Funding Entity:</b>	
<b>Type of contract:</b>	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.	

<b>Selection criteria:</b>	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.
<b>Disability Incentive:</b>	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.

<b>Selection Jury:</b>	President of the Jury: João Pedro Mendes; Member: Luís Carlos Coelho; Member: José Almeida; Substitute member: José Ribeiro;
<b>Notification of results:</b>	The results of the selection process will be sent to the interested by electronic mail.
<b>Application period:</b>	From 2026-05-28 to 2026-06-05
<b>Application submission:</b>	Electronic form filling in <a href="http://www.inesctec.pt">www.inesctec.pt</a> in the section <a href="#">Work with Us</a>