

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2026-0030 (LIBScan - CAP)
	INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciéncia
Job/position/grant:	RESEARCHER
City:	Departamento de Física e Astronomia, Faculdade de Ciéncias da Universidade do Porto
Research field:	Main: Sub:

Job summary:

INESC TEC is accepting applications for 1 RESEARCHER job in the Experimental development and validation of a galvanometer-based LIBS scanning system.

Project: Desenvolvimento de um espetrómetro transportável LIBS com mapeamento rápido

Scientific Advisor: Nuno Azevedo Silva

Start Date: 2026-03-12

Location: Departamento de Física e Astronomia, Faculdade de Ciéncias da Universidade do Porto

Job description:

Work Area: Experimental development and validation of a galvanometer-based LIBS scanning system.

Project overview: The researcher will join INESC TEC team in the LIBScan project, contributing to the development of the galvanometer-based LIBS system (Gen II). The work will involve system integration and calibration, acquisition of spectral maps, and development of tools for data processing and analysis. The researcher will receive training in photonic instrumentation, laser-spectrometer synchronization, and spectral analysis algorithms, contributing to prototype validation in geological case studies.

Objectives: - Develop and validate the galvanometer scanning system.

- Implement and optimize LIBS mapping methods.
- Support the development of signal-analysis software.
- Conduct performance testing and validation in case studies.

Academic Qualifications: Master's Degree.

Minimum profile required: Master's Degree in Physics or Physics Engineering.

Preference factors: Experience in spectroscopic techniques (LIBS)

Data visualisation techniques (augmented reality)

Experience with instrumentation

Experience in applied optics

Proficiency in Python.

Funding Entity: project LIBScan, with reference 17490 (COMPETE2030-FEDER-01205900) Co-funded by ERDF - European Regional Development Fund through the Innovation and Digital Transition Thematic Programme (COMPETE 2030) within the scope of Portugal 2030.

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.

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: Nuno Azevedo Silva; Member: Pedro Jorge; Member: Diana Filipa Guimarães; Substitute member: Tiago David Ferreira; Substitute member: Tiago David Ferreira;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2026-02-12 to 2026-02-25
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us