INESCTEC

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2025-0604 (CBER-Geral - CBER)
	INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: COMPUTER SCIENCE
	Sub: Computer Systems

Job summary:

INESC TEC is accepting applications for 1 RESEARCHER job in the Research and development of new algorithms for processing and classifying physiological signals in ambulatory systems

Scientific Advisor:	João Paulo Cunha
Start Date:	2026-02-09
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Research and development of new algorithms for processing and classifying physiological signals in ambulatory systems

Project overview: Processing of physiological and inertial signals (pre-processing, filtering, feature extraction in the time, frequency, and time-frequency domains). Development and validation of machine learning and deep learning models; integration and analysis of data from wearable and clinical monitoring devices and clinical databases. Experimental evaluation of algorithms, development, and deployment. Support in data collection and documentation of the work performed.

Objectives: The Center for Biomedical Engineering Research (C-BER) has extensive experience in biomedical signal processing, particularly physiological signals from wearable devices. This position aims to research and develop methods for processing physiological signals, including inertial signals and other wearable sensors, for subsequent application of machine learning and deep learning methods and classification of health and wellness parameters. Data acquisition, as well as presentations, scientific publications, and technical reports are also part of the objectives of this position.

Academic Qualifications:	Master's degree in Biomedical Engineering, Electrical Engineering, Computer Science, or a similar field.
Minimum profile required:	Experience in biomedical signal processing.
	Knowledge of machine learning/deep learning (e.g., classification, feature learning, neural networks).
	Experience in scientific programming (e.g., Python and/or MATLAB) and code management tools.
	Good knowledge of written and spoken scientific English.
Preference factors:	Previous work in developing algorithms for signal processing and machine learning/deep learning techniques with physiological signals, namely ECG and inertial from human movement.
	Previous knowledge in collecting physiological data and managing and preparing it for analysis.

Funding Entity:	
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: João Paulo Cunha;
	Member: Susana Cristina Rodrigues;
	Member: Miguel Velhote Correia;
	Substitute member: Miguel Coimbra;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2026-01-08 to 2026-01-21
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us