CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2024-0051 (SMARTgNOSTICS - CEGI)
	INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciï¿½ncia
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: ENGINEERING
	Sub: Industrial engineering

Job summary:

INESC TEC is accepting applications for 1 RESEARCHER job in the Artificial intelligence algorithms for monitoring antibiotic residues	
Project:	Global Testing & Diagnostics Solutions for antimicrobial resistances
Scientific Advisor:	Luís Guimarães
Start Date:	2024-03-15
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Artificial intelligence algorithms for monitoring antibiotic residues

Project overview: The scope of the Smartgnostics project includes developing a monitoring device to monitor antibiotics and antibiotic residues in water, soil and food. This device will make it possible to monitor antibiotics and antibiotic residues to measure the impact of these residues on the selective pressure for the creation of new multi-resistant bacterial strains, correlating with their appearance and contributing to the creation of an action plan for the detoxification and elimination of these residues. The development begins with the device's design and molecular tests on antibiotics and antibiotic residues. It includes building a beta prototype, testing specificity and detection limits, and validating the matrix. To increase the potential of this device, a data integration platform will be developed with analytics and machine learning capabilities. This work focuses on the development and validation of the device.

Objectives: The work aimed at developing and validating the analytics platform will have the following objectives: Identification and definition of the platform's requirements (technical and functional); Definition of the different analytics use cases; Development of descriptive analytics models; Development of descriptive analytics models.

Academic Qualifications:	Master in Industrial Engineering or similar area.
Minimum profile required:	Final classification of 16 (minimum).
Preference factors:	Experience in prescriptive modelling, scientific publications and participation in R&D projects.

Funding Entity:	SMARTgNOSTICS funded by IAPMEI with reference 5 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.
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: Luís Guimarães;
	Member: Flávia Barbosa;
	Member: Armando Leitão;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2024-02-08 to 2024-02-21
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us