

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2025-0081 (CitiLink - LIAAD) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Job/position/grant:	RESEARCHER
City:	Porto
Research field:	Main: COMPUTER SCIENCE Sub: Programming, Computer Systems, Informatics, Database management

Job summary:

INESC TEC is accepting applications for 1 RESEARCHER job in the Computer Science

Project:	CitiLink - Enhancing municipal transparency and citizen engagement through AI: from unstructured to structured data
Scientific Advisor:	Ricardo Campos
Start Date:	2025-04-01
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Computer Science

Project overview: Carry out a survey of the state of the art in NLP for the tasks of event identification, position detection, simplification and text summarization; Explore, develop and evaluate LLM models in European Portuguese, focusing on the above-mentioned tasks, applied to city council minutes texts; Make the developed models available in public repositories for wide dissemination; Contribute to the integration of models into operational scenarios; Support the CitiLink project coordination team in supervising the scholarship holders and in executing the tasks foreseen in the project; Actively participate in the project's dissemination activities; Write and collaborate in the publication of scientific articles; Prepare and actively participate in project meetings.

Objectives: Develop and evaluate LLM models in European Portuguese for tasks such as event identification, stance detection, text simplification and summarization, with a focus on municipal minutes;
Support the integration of models into operational scenarios;
Support the CitiLink project coordination team in supervising the scholarship holders and in executing the tasks foreseen in the project;
Explore information retrieval systems using RAGs (Retrieval Augmented Generation).

The selected candidate will collaborate with the NLP team at INESC TEC (<https://nlp.inesctec.pt>) in a dynamic and innovative environment. As part of this team, the candidate will have the opportunity to engage with researchers, master's students, doctoral candidates, and postdoctoral fellows working on diverse topics such as Natural Language Processing, Information Retrieval, Machine Learning, and Information Extraction. The ideal candidate should be enthusiastic about contributing occasionally to other related projects and eager to thrive in a collaborative and multidisciplinary research setting.

Academic Qualifications:	Degree and/ or Master degree in Data Science, Artificial Intelligence, Computer Engineering, Computer Science or similar.
Minimum profile required:	Relevant programming experience (Python); Experience using NLP libraries such as transformers, PyTorch or Keras; Fluency in Portuguese and English (spoken and written); Approval at an Artificial Intelligence (AI) or Machine Learning Course Unit; Communication skills and ability to collaborate in a team; Availability to participate in meetings with project partners; Able to start the contract immediately after selection.
Preference factors:	Proficiency in Portuguese (spoken and written), in the European variant, at level C2 of the Common European Framework of Reference for Languages, certified with the respective diploma, or as a mother tongue, given that this is a project that aims to develop models of AI in Portuguese, European variant, based on a diverse set of Portuguese language documents; Approval at an NLP Course Unit; Relevant experience in the use and training of LLMs; Prior participation in Research and Development (R&D) projects.

Funding Entity:	within the CitiLink project with reference 2024.07509.IACDC/2024, co-funded 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: Ricardo Campos; Member: Alípio Jorge; Member: Nuno Ricardo Guimarães; Substitute member: Evelin Freire Amorim;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2025-02-13 to 2025-03-06
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us