439_24_LS_NLP_RE2

Job Reference

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Position

Healthcare/medical expert for IA and NLP applications (RE2)

Data de tancament

Divendres, 16 Agost, 2024
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Job title: Healthcare/medical expert for IA and NLP applications (RE2)

About BSC

The Barcelona Supercomputing Center - Centro Nacional de Supercomputación (BSC-CNS) is the leading supercomputing center in Spain. It houses MareNostrum, one of the most powerful supercomputers in Europe, was a founding and hosting member of the former European HPC infrastructure PRACE (Partnership for Advanced Computing in Europe), and is now hosting entity for EuroHPC JU, the Joint Undertaking that leads large-scale investments and HPC provision in Europe. The mission of BSC is to research, develop and manage information technologies in order to facilitate scientific progress. BSC combines HPC service provision and R&D into both computer and computational science (life, earth and engineering sciences) under one roof, and currently has over 1000 staff from 60 countries.

Look at the BSC experience:
BSC-CNS YouTube Channel
Let's stay connected with BSC Folks!

We are particularly interested for this role in the strengths and lived experiences of women and underrepresented groups to help us avoid perpetuating biases and oversights in science and IT research. In instances of equal merit, the incorporation of the under-represented sex will be favoured.

We promote Equity, Diversity and Inclusion, fostering an environment where each and every one of us is appreciated for who we are, regardless of our differences.

If you consider that you do not meet all the requirements, we encourage you to continue applying for the job offer. We value diversity of experiences and skills, and you could bring unique perspectives to our team.

Context And Mission

The NLP for Biomedical Information Analysis of the BSC-CNS (NLP4BIA-BSC) is funded through the Plan de Impulso de las Tecnologías del Lenguaje de la Agenda Digital by the Secretary of State of Telecommunications and the Information as well as several European Horizon projects and Spanish projects. It aims to promote the development of natural language processing and machine translation resources for Spanish and other co-official languages in biomedicine.

NLP4BIA-BSC is looking for a medical expert interested in Language Technologies and AI applications to provide domain expertise for generating semantic annotation resources and high-quality machine-learning datasets.

The candidate will be involved in medical domain-specific work related to international projects, being part of a highly multidisciplinary team of researchers working on topics related to deep learning approaches applied to named entity extraction (NER)/semantic annotation, entity linking and generation of advanced language models. The candidate will have the opportunity to provide domain expertise and input for developing cross-lingual medical NLP systems.

We search for a professional healthcare/medical expert with a deep understanding of the medical/clinical/health-related language and data, interest in medical terminologies and basic knowledge of AI technology to supervise and aid in the construction of corpora and text annotation resources for the current research projects in the NLP4BIA-BSC group within the Life Sciences Department.

Key Duties

- Development, supervision and definition of biomedical and clinical text annotation and translation projects for the current research projects in the Life Sciences department.
- Contribute to the documentation of materials, reports and deliverables describing the generated resources, results, and project descriptions of the NLP4BIA-BSC group.
- Contribute to the dissemination activities of the results.
- Managing medical linguistic annotation projects involving recruitment, coordination, and supervision of expert clinicians/nurses, clinical documentalists and terminologists.
- Evaluation and testing of clinical text mining, natural language processing, language technology and machine translation tools.
- Work on the preparation of project proposals.

Requirements

- Education
    - At least a higher university degree in health-related disciplines, preferably Medicine, with training as a physician or Bachelor of Medicine and validation of medical degree by examination (Examen de Grado).

- Essential Knowledge and Professional Experience
    - Demonstrable experience in medicine in clinical settings.
    - Experience in using medical terminologies and controlled vocabularies.
    - Basic knowledge and understanding of AI technologies.

- Additional Knowledge and Professional Experience

- Familiar with software resources used for AI.
- Language knowledge: Spanish and English (essential), Catalan (a plus).
- Basic knowledge/understanding of other disciplines like pharmacology, biochemistry, and nursing would be a plus.
- Interest in cognitive processes related to language processing, text mining, computational linguistics and new translation technologies (machine translation).
- Familiar with clinical coding tasks (ICD10) would be a plus.
- Familiar with patient-generated content and language would be a plus.
- Experience as in healthcare or clinical documentalists tasks would be a plus.
- Familiarity with medical literature databases (PubMed, Scielo, IBECS).
- Familiarity with SNOMED CT, Spanish version of ICD10 and DeCS would be a plus.
- Very basic programming skills (e.g. Python) would be a plus.

- Competences
  - Ability to work independently and manage multiple tasks effectively.
  - Ability to work under set deadlines.
  - Good communication and presentation skills.
  - Good problem-solving and analytical skills.

Conditions

- The position will be located at BSC within the Life Sciences Department
- We offer a part-time contract, a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours, extensive training plan, private health insurance, support to the relocation procedures
- Duration: Open-ended contract due to technical and scientific activities linked to the project and budget duration
- Salary: we offer a competitive salary commensurate with the qualifications and experience of the candidate and according to the cost of living in Barcelona
- Starting date: asap

Applications procedure and process

All applications must be made through BSC website and contain:

- A full CV in English including contact details
- A Cover Letter with a statement of interest in English, including two contacts for further references - Applications without this document will not be considered

In accordance with the OTM-R principles, a gender-balanced recruitment panel is formed for every vacancy at the beginning of the process. After reviewing the content of the applications, the panel will start the interviews, with at least one technical and one administrative interview. A profile questionnaire as well as a technical exercise may be required during the process.

The panel will make a final decision and all candidates who had contacts with them will receive a feedback with details on the acceptance or rejection of their profile.

At BSC we are seeking continuous improvement in our recruitment processes, for any suggestions or feedback/complaints about our Recruitment Processes, please contact recruitment [at] bsc [dot] es.

For more information follow this link

Deadline

The vacancy will remain open until a suitable candidate has been hired. Applications will be regularly reviewed and potential candidates will be contacted.

OTM-R principles for selection processes

BSC-CNS is committed to the principles of the Code of Conduct for the Recruitment of Researchers of the European Commission and the Open, Transparent and Merit-based Recruitment principles (OTM-R). This is applied for any potential candidate in all our processes, for example by creating gender-balanced recruitment panels and recognizing career breaks etc.
BSC-CNS is an equal opportunity employer committed to diversity and inclusion. We are pleased to consider all qualified applicants for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability or any other basis protected by applicable state or local law.
For more information follow this link
Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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