Job Reference

550_23_LS_LT_R3

Position

Senior Researcher (R3)

Data de tancament

Diumenge, 31 Desembre, 2023
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Job title: Senior Researcher (R3)

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 900 staff from 55 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.

Context And Mission

The Language Technologies Unit at BSC has consolidated experience in several NLP areas, such as massive language model building, biomedical text mining, machine translation and unsupervised learning for under-resourced languages and domains. It has been entrusted by the Spanish and the Catalan governments with the mission to develop essential open-source resources and technologies for Spanish and Catalan. In addition, the Unit participates in various EU-funded international projects. The LT Unit at BSC is seeking a highly skilled Senior Researcher with a strong background in Machine Translation and Natural Language
Processing to take a leadership position and be responsible for crafting competitive grant proposals to secure funding for the team’s research.

The successful candidate will work in a highly sophisticated HPC environment, have access to state-of-the-art systems and computational infrastructures, and establish collaborations with experts in different areas at the local and international levels.

### Key Duties

- Lead and contribute to MT and NLP research projects, staying abreast of the latest advancements in the field.
- Collaborate with internal and external stakeholders to define research goals and objectives.
- Contribute to the development of a strategic research agenda for the LT Unit.
- Identify and evaluate funding opportunities, taking into consideration the Unit's research priorities.
- Develop and write clear, concise, and persuasive grant proposals for funding opportunities in the field of MT and NLP, both at national and international levels.
- Ensure proposals align with the Unit's strategic research objectives and address the specific requirements of funding agencies.
- Collaborate with other researchers, both internally and externally, to enhance the impact and visibility of our research.

### Requirements

- **Education**
  - Ph.D. in Machine Translation or Natural Language Processing.
  - Proven track record of leading Spanish and European-funded projects in the area of Machine translation and NLP.
  - Extensive experience in developing and writing successful grant proposals for research funding.
  - Strong publication record in reputable NLP conferences and journals.
  - Excellent communication and interpersonal skills.
  - Familiarity with a broad range of NLP techniques, including machine learning and deep learning approaches.
  - Experience working with industry partners on collaborative research projects.
  - Ability to mentor and guide junior researchers.
  - Fluency in spoken and written Catalan, Spanish and English. Fluency in other languages will also be valued

- **Essential Knowledge and Professional Experience**
  - European projects on Language Technologies with special focus on machine translation
  - Experience dealing with Spanish Public Administration Bodies
  - Participation in Language Technologies projects with Spanish Public Bodies
  - Advanced linguistic knowledge with expertise in rule-based grammars, lexicon building, and annotation (both syntactic and semantic)
  - Research profile

- **Additional Knowledge and Professional Experience**
Projects on machine translation for co-official languages
Basic or medium knowledge/experience with platforms such as UIMA, GATE, SOLR, and programming languages
Participation in conferences and journals related to LT at European level
Some experience leading international teams
Scientific Publications on topics related to LT
Fluency in spoken and written English, while fluency in other European languages will be also valued

- Competences
  - Teamwork
  - Managing programs and projects
  - Problem solving
  - Technical writing
  - Autonomy at work

Conditions

- The position will be located at BSC within the Life Sciences Department
- We offer a full-time contract (37.5h/week), a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours, extensive training plan, restaurant tickets, 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
- Holidays: 23 paid vacation days plus 24th and 31st of December per our collective agreement
- 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: 01/01/2024

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