

[470_24_CS_HPAI_RE2](#)

Job Reference

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Position

AI software engineer (RE2)

Data de tancament

Dissabte, 31 Agost, 2024

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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 mission of the Computer Science Department at the BSC is to influence how machines are built, programmed and used: computer and system architecture, programming models and performance tools, resource management, Big Data and artificial intelligence. The HPAI (High-Performance Artificial Intelligence) research group is part of the Computer Science department, and it performs research in Artificial Intelligence, focused on the solutions, problems and infrastructure provided by High-Performance Computing. The group actively collaborates with researchers from other fields, with the goal of applying machine learning to challenging problems in a wide variety of domains. HPAI has active collaborations with several large tech companies, pursuing lines of research of common interest. The group is also involved in multiple European and national research projects. Although HPAI is open to all aspects of AI, its main lines of research are currently large language models, agent systems, explainability, and ethics.

The post holder will work in the HPAI group in the Computer Science Department and will participate mainly in the context of the AI4Europe European project (grant agreement 825619) for several of the project's tasks, including software engineering, machine learning engineering, infrastructure management, research, and some project management responsibilities.

The Engineer 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

- Work on the design and development of the software solutions needed to achieve the goals of the AI4Europe project
- Research, develop, test and evaluate machine learning-based solutions for the project's platform
- Interact with relevant stakeholders of the project to understand the evolving needs of AI4Europe's platform and participate in the planning of BSC's tasks
- Participate in the community engagement planning and activities of the project
- Participate in the research and dissemination activities relevant to BSC's contributions to the project

Requirements

- Education
 - Master's degree or equivalent (Master in Artificial Intelligence preferred)
- Essential Knowledge and Professional Experience
 - Good knowledge of Python
 - Experience in software engineering
 - Experience in machine learning
 - Experience in continuous integration, deployment and delivery
 - Experience in project management
- Additional Knowledge and Professional Experience
 - Knowledge of the current trends in software architecture and engineering
 - Experience in research and dissemination activities

- Competences
 - Fluency in spoken and written English
 - Capacity to explore new research lines
 - Good communication and presentation skills
 - Ability to work both independently and within a team

Conditions

- The position will be located at BSC within the Computer 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: 01/09/2024

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

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