

[325_24_CASE_GA_RE2/RE3](#)

Job Reference

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Position

Software Engineer for HPC+ML Applications (RE2/RE3)

Data de tancament

Diumenge, 15 Setembre, 2024

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Job title: Software Engineer for HPC+ML Applications (RE2/RE3)

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 Barcelona Supercomputing Center is hiring a senior research engineer with expertise in HPC, workflows, machine learning and a background in physical models. Due to the multidisciplinary nature of our group, the work will be integrated into highly competitive European projects related to seismic hazard, electromagnetic simulations and medical imaging.

Key Duties

- Participate in R&D activities related to Wave Phenomena group
- Support developments of HPC and ML software packages of the Wave Phenomena group

Requirements

- Education
 - B.Sc.or M.Sc in Computer-science related studies or M.Sc / Ph.D.in natural sciences with strong and proven background in computer sciences.
- Essential Knowledge and Professional Experience
 - 2-4 years of minimum experience in similar positions.
 - Knowledge on workflow orchestration and containerization.
 - Good practices in software design and testing (version control, CD/CI, debugging tools).
- Additional Knowledge and Professional Experience
 - Experience in any of the domain areas of the group will be valued positively (earth sciences, electromagnetics, ultrasound).
 - Expertise in artificial intelligence techniques will be valued positively
 - Expertise in time-signal analysis will be valued positively
 - Expert-level programming skills in Python, C/C++, shell scripting.
 - Expertise in containerization, microservices, distributed computing
 - Project management skills
 - Excellent English, written and spoken
- Competences
 - Ability to work both independently and within a team
 - Good communication and team-work skills to work in a multidisciplinary team.

Conditions

- The position will be located at BSC within the CASE 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: 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](#)

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