

[392_24_CS_AHPC_RE1](#)

Job Reference

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Position

Research Engineer - High-Performance Runtime Systems, Accelerators and MPI (RE1)

Data de tancament

Divendres, 16 Agost, 2024

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Job title: Research Engineer - High-Performance Runtime Systems, Accelerators and MPI (RE1)

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.

Context And Mission

The Accelerators and Communications for HPC team leads cutting-edge research and development around accelerators/coprocessors in HPC. We are involved in low-level networking and MPI research, collaborating directly with leading vendors such as NVIDIA, Intel, or Huawei.

We collaborate closely with the two major accelerator/coprocessor vendors for HPC: NVIDIA and Intel. We

organize locally international events such as the PUMPS Summer School, Courses on CUDA/OpenACC, and the Annual MNHACK, and collaborate in the organization of related international conferences and workshops such as SC, IEEE Cluster, or AsHES.

Key Duties

- To assist on research-oriented software developments and evaluations within our HPC networking / OpenMP offloading / MPI lines of research. This involves coding at system level (runtime systems, etc.) but also at application level so as to evaluate the developments
- To help on developing research papers targeting well-recognized venues

Requirements

- Education
 - BS or MS in a Computer Science topic
- Essential Knowledge and Professional Experience
 - Proficiency in C
 - C, MPI, OpenMP
 - Profiling
 - Development in Linux
- Additional Knowledge and Professional Experience
 - Previous extra-academic professional experience not required
 - Good English level
- Competences
 - Working 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: 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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