403_20_CS_HAM_RE1

Job Reference

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Position

Runtime system research engineer (RE1)

Data de tancament

Divendres, 31 Desembre, 2021
Reference: 403_20_CS_HAM_RE1
Job title: Runtime system research engineer (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, and is a hosting member of the PRACE European distributed supercomputing infrastructure. 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 700 staff from 49 countries.

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

Context And Mission

The Heterogeneous Architectures group within the Computer Science department of Barcelona Supercomputing Center (BSC) is offering a full-time research engineer position. The successful candidate will develop new programming model features at the forefront of research in programming models and runtime systems and will work closely with two to three PhD students. This position requires C++14 software development skills, a working knowledge of OpenMP and MPI, and experience with multi-threaded software development.

Key Duties
● Ongoing development and maintenance of multi-node tasking support in the Nanos6 runtime system.
● Implementation and evaluation of new programming model and runtime system extensions.

Requirements

● Education
  ○ Bachelors or Masters degree in Computer Sciences, mathematics or a similar discipline.

● Essential Knowledge and Professional Experience
  ○ Modern C++14 development.
  ○ Working knowledge of OpenMP and MPI.
  ○ Experience developing complex multi-threaded software with pthreads.
  ○ Experience with Unix/Linux environments.

● Additional Knowledge and Professional Experience
  ○ Previous experience with HPC applications, programming models, runtime systems or computer systems architecture would be highly valued.

● Competences
  ○ Ability to take initiative.
  ○ Good written and verbal communication skills.
  ○ Fluency in English is essential.

Conditions

● The position will be located at BSC within the Computer Sciences Department
● We offer a full-time contract, a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours, extensive training plan, tickets restaurant, private health insurance, fully support to the relocation procedures
● Duration: Temporary - One year renewable
● 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: As soon as possible
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 of 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](https://www.bsc.es/ca/join-us/job-opportunities/40320cshamre1)

Deadline

The vacancy will remain open until 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.

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This position is reserved for candidates who meet the requirements and have the legal status of disabled persons with a degree of disability equal to or greater than 33%. In case there are no applicants with disabilities that meet the requirements, the rest of the candidates without declared disability will be evaluated.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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