Job Reference

29_21_CS_HAMT_RE2

Position

Research Engineer (RE2)

Data de tancament

Dimarts, 16 Novembre, 2021
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Job title: Research Engineer (RE2)

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 Memory systems team[1] from the Computer Science Department at the Barcelona Supercomputing Center[2] is offering a full-time research engineer position. The researcher will work on the project that explores advanced memory systems (HBM, DDR4, 3DxPoint) for high-performance computing (HPC). We strongly encourage the application of candidates who are interested in a close collaboration with industry and contact with cutting edge technology developers.

Key Duties

- Profiling and performance modeling of HPC applications running on high-end servers with advanced memory systems (HBM, DDR4, 3DxPoint).

Requirements

- Education
  - BSc or MSc in Computer Science

- Essential Knowledge and Professional Experience
  - Knowledge of computer architecture
  - Experience with Unix/Linux environments
  - Experience with profiling tools: Hardware counters, PAPI interface
  - Programming languages (C/C++, Python)

- Additional Knowledge and Professional Experience
  - Understanding of memory systems and memory technologies (e.g. DRAM, HBM) is a plus
  - Experience with hardware/system simulators (e.g. ZSim, Gem5) is a plus

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

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 - 24 months 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: Q1 2021
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.

For more information follow this link

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.
For more information follow this link

Barcelona Supercomputing Center - Centro Nacional de Supercomputación