140_CS_AHPC_R12

Job Reference

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Position

Postdoctoral Researcher (R2) - Automatic Data Distribution for Heterogeneous Memory Systems

Data de tancament

Diumenge, 31 Març, 2019
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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, 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 500 staff from 44 countries.

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

Context And Mission

The Accelerators and Communications for HPC team leads cutting-edge research and development around accelerators/coprocessors in HPC. We collaborate closely with the two major accelerator/coprocessor vendors for HPC: NVIDIA and Intel. While we run the BSC/UPC NVIDIA GPU Center of Excellence, we also collaborate with the Intel-BSC Exascale Lab. activities. We organize locally international events such as the PUMPS Summer School, PATC Courses on CUDA/OpenACC, and the Annual BCS/UPC HPC Hackathon, and collaborate in the organization of related international conferences and workshops such as SC or AsHES. We are also involved in low-level networking and MPI R&D.
Key Duties

- To become the technical lead of our data distribution for heterogeneous memory systems line of research
- To become involved in the dissemination/communication team activities
- To lead development of research papers
- To mentor junior staff

Requirements

- Education
  - PhD in a Computer Science topic, preferably related to HPC

- Essential Knowledge and Professional Experience
  - Proficiency in C
  - Good English Level, spoken and written (at least B2 or equivalent)
  - No postdoctoral experience required

- Additional Knowledge and Professional Experience
  - Research related with heterogeneous memories will be valued

- Competences
  - Writing papers
  - 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, a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible hours, extensive training plan, tickets restaurant, private health insurance, fully support to the relocation procedures
- Duration: Temporary - 1 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: ASAP

Applications Procedure

All applications must include:

- A motivation letter with a statement of interest, including two contacts for further references
  - Applications without this document will not be considered
- A full CV including contact details
Deadline

The vacancy will remain open until suitable candidate has been hired. Applications will be regularly reviewed and potential candidates will be contacted.

Diversity and Equal Opportunity Employment

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.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación