232_CS_AHPC_RE1

Job Reference

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Position

RE1 ? Junior Research Engineer

Data de tancament

Diumenge, 31 Desembre, 2017

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

BSC-CNS Corporate Video

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, HiPC, SCALE, AsHES, WACCPD, and ROME. We are also involved in low-level networking and MPI research.

**Key Duties**

- Assistance to research on frameworks for distributed deep learning.
- Porting of applications to GPGPU-enabled programming models
- System administration
- Assistance on training activities
- Assistance on other research activities within the team

The candidate will work closely with international research institutions and HPC vendors.

**Requirements**

- **Education**
  - MS in a Computer Science topic, preferrable related to HPC or artificial intelligence

- **Essential Knowledge and Professional Experience**
  - Fluency coding in CUDA and C required
  - MPI, OpenMP will be valued
  - OpenCL, OpenACC, OmpSs desirable

- **Additional Knowledge and Professional Experience**
  - Proved CUDA expertise

- **Competences**
  - Fluency in spoken and written English, while fluency in other European languages will be also valued
  - Software development
  - GPGPU
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
- Salary: we offer a competitive salary commensurate with the qualifications and experience of the candidate and according to the cost of living in Barcelona
- Duration of the contract: 1 year
- Starting date: January 1\textsuperscript{st} 2018

Applications Procedure

All applications must include:

- A motivation letter with a statement of interest, including two contacts for further references
- A full CV including contact details
- Internal candidatures will be prioritized

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