115_CS_ASBP_RE1

Job Reference

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Position

Junior Developer of Big Data technologies for High Performance Computing (RE1)

Data de tancament

Divendres, 20 Juliol, 2018

About BSC and the Computer Science department

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.

The Computer Sciences (CS) department of the Barcelona Supercomputing Center aims at carrying out research and development to influence the way computing machines are built, programmed and used.

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

Context and Mission:

We are looking for a junior developer to work in the Autonomic Systems and eBusiness platforms group. The goal of our research group is to explore the future of computing by performing high-level research in today\’s eBusiness applications that have to deal with critical IT challenges in areas such as Cognitive Computing, Big Data, Cloud Computing, High Performance Computing and Sustainable Computing.
In particular, this junior developer will work designing and implementing tools to meet the requirements of Big Data scientific applications. Among other tasks, he/she will work on exploiting novel storage hierarchies, exploring solutions ranging from extending existing functionalities on non-relational databases to combine different data store solutions for each level in the hierarchy.

The successful candidate will be involved on international projects collaborating with prestigious research centers and companies. For example, he/she will be involved in the Human Brain Project, a European Commission Future and Emerging Technologies Flagship.

**Key Duties**

1. Development of policies and mechanisms to manage data storage hierarchy
2. Design and development of a common interface for non-relational databases
3. Study and adaptation of Big Data tools for HPC environments
4. Participation in the preparation of project deliverables
5. Participation in dissemination tasks

**Requirements**

- **Education**
  - Graduate on Computer Science or similar

- **Professional Experience**
  - Programming with python and C++
  - Experience with application performance analysis, distributed programming models and non-relational data bases (as for example Apache Cassandra or ScyllaDB)

- **Competences**
  - Knowledge of distributed data systems for Big Data applications
  - Knowledge of distributed applications architectures and technologies to implement efficient, reliable and fault tolerant systems
  - Critical and creative thinking skills
  - Ability to take initiative, prioritize and work under set deadlines and pressure
  - Ability to work independently and in a team
  - Excellent written and verbal communication skills
  - Capacity to interact and build strong relations with a diverse members/stakeholder/staff base
  - Fluency in English is essential

**Conditions**

- The position will be located at BSC within the Computer Sciences Department in the Autonomic Systems and eBusiness platforms team in collaboration with the specific program coordinator. The contract will be for 2 years, with a test period of 6 months.
- We offer 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
Applications Procedure

All applications must include:

- A motivation letter with a statement of interest, including two contacts for further references - COMPULSORY - 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

Source URL (retrieved on 13 jul 2018 - 05:46): https://www.bsc.es/ca/join-us/job-opportunities/115csasbpre1