Job Reference

131_CS_ASBP_RE1

Position

Junior Developer of Big Data technologies for HPC (part-time) RE1

Data de tancament

Dilluns, 30 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. In particular, the goal of the Autonomic Systems and eBusiness platforms 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

Context and Mission

We are looking for a junior developer to work in the Autonomic Systems and eBusiness platforms group. We will accept candidatures interested in a part-time work as well as students of Computer Sciences Engineering Degree. There is the option to perform the Undergraduate Thesis Project related to BigData technologies.
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.

**Key Duties**

1. Development of policies and mechanisms to manage data storage hierarchy
2. Study and adaptation of Big Data tools for HPC environments

**Requirements**

- **Education**
  - Graduate on Computer Science (or similar) or currently undertaking the last semesters

- **Knowledge**
  - Will be valued:
    - Programming with Java, python and C++
    - Knowledge of distributed data systems for Big Data applications (as for example Apache Cassandra)

- **Competences**
  - 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

**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.
- 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
- Starting date: ASAP

**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

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