Job Reference

257_CS_ASEBP_RE1

Position

Junior developer for resource management of BigData applications

Data de tancament

Dimarts, 27 Novembre, 2018
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Job title: Junior developer for resource management of BigData applications

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
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Context And Mission

The Barcelona Supercomputing Center is carrying out multidisciplinary research to address challenges towards next generation computing systems, developing energy efficient and high performance hardware and software platforms. The successful candidate will be involved on international projects focused on the design of resource management systems to support big data scientific applications. In particular, he/she will be involved in the Human Brain Project, a European Commission Future and Emerging Technologies Flagship. Among other tasks, this junior developer will work on exploiting hierarchies of data store, 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

- Development of policies to manage the resource allocation and to configure the data store according to the required performance goals
- Development of policies and mechanisms to manage data store hierarchy
- Participation in the preparation of project deliverables
- Participation in dissemination tasks

Requirements

- Education
  - Graduate on Computer Science or similar
  - Post-graduate studies will be valuable

- Essential Knowledge and Professional Experience
  - Knowledge of distributed applications architectures and technologies to implement efficient, reliable and fault tolerant systems will be valued
  - Knowledge of distributed data systems for big data applications will be valued
  - Fluency in English essential

- Additional Knowledge and Professional Experience
  - Experience with application performance analysis, distributed programming models and non-relational data bases
  - Experience using Apache Cassandra and Scylla
  - Experience programming with Python, C++ and Java

- 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
- 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
- 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.

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