Job Reference

235_CS_ASBP_RE12

Position

PhD Student on Big Data on virtualized infrastructures

Data de tancament

Divendres, 30 Novembre, 2018

Reference: 235_CS_ASBP_RE12

Job title: PhD Student on Big Data on virtualized infrastructures

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 candidate will be incorporated at full time to the "Autonomic Systems and eBusiness Platforms" research line from BSC. Candidate's main task will be oriented toward the development and support for the assigned tasks to the research group in the Lenovo – BSC cooperation agreement.

Key Duties

- Tasks supporting technical developments: Design, implementation, and performance analysis of a Big Data environment on a virtualized HPC infrastructure and development of resource management
policies in such environment.

- **Tasks supporting project management:**
  - Preparation of presentations
  - Writing of deliverables/articles
  - Organization/attendance of/to conference calls
  - Travelling to project meetings

**Requirements**

- **Education**
  - Bachelor degree on computer science (or related discipline).

- **Essential Knowledge and Professional Experience**
  - 0-2 years of experience on a similar position.
  - Familiarity with Cloud and Big Data.
  - Experience with virtualization and/or containers.
  - Basic knowledge in resource management in distributed systems.
  - Experience in Java and Web Services programming.
  - Knowledge of software design patterns and web application frameworks.
  - Basic knowledge in Linux server administration.
  - Basic knowledge in machine learning.
  - Interest on enrolling in a master or doctoral program will be also valued.

- **Competences**
  - Candidates must be proactive, self-motivated individuals who can understand technical concepts.
  - Excellent written and verbal communication skills in English.
  - Ability to take initiatives, prioritize the tasks and work under set deadlines.
  - Ability to work both independently and within a team.
  - Willingness to travel.

**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.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación