261_CS_WDC_RE1

Job Reference

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Position

Junior developer for container orchestration in COMPSs runtime (RE1)

Data de tancament

Divendres, 30 Novembre, 2018
Reference: 261_CS_WDC_RE1
Job title: Junior developer for container orchestration in COMPSs runtime (RE1)

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.

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Context And Mission

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. The Workflows and Distributed Computing group at the Barcelona Supercomputing Center aims at carrying out research on programming models for distributed computing. More specifically, this group is contributing to the LANDSUPPORT project with the programming model PyCOMPSs/COMPSs. PyCOMPSs/COMPSs is a task-based, parallel programming model offered to the project applications as a means to execute them in distributed environments. For this research, the group is looking for a junior developer to implement some extensions to the orchestration of container images from the COMPSs runtime.
**Key Duties**

- Development of an extension to the COMPSs runtime that enables the composition of a COMPSs application from container images.
- Development of a case of use.
- Contribution to COMPSs manual that illustrates how to use this new feature.
- The candidate will work closely with other research members on the team of the Workflows and Distributed Computing group.

**Requirements**

- **Education**
  - Computer science degree or similar, or a student finalizing the studies.

- **Essential Knowledge and Professional Experience**
  - Background in runtime systems and system software.
  - Knowledge on Distributed Computing.

- **Competences**
  - Fluency in spoken and written English, while fluency in other European languages will be also valued.

**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: 01/01/2019

**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