Job Reference

33_CS_WDC_RE1

Position

Research Engineer - Extending PyCOMPSs programming model (RE1)

Data de tancament

Diumenge, 31 Març, 2019

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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 Workflows and Distributed Computing group at the Barcelona Supercomputing Center aims at carrying out research on programming models for distributed computing. In the framework of the project Tango, the group is working on the extension of the PyCOMPSs parallel programming model to support collections in the detection of the data dependencies. This will allow an easier development of parallel applications. For this research, the group department is offering a full-time contract for a junior research engineer.

Key Duties
- Extension of PyCOMPSs to support data collections
- Development of use cases to demonstrate the development
- Test of the use cases in computing infrastructures

**Requirements**

- **Education**
  - Computer engineering grade (Bachelor or Master degree)

- **Essential Knowledge and Professional Experience**
  - Good programming skills in Python and Java
  - Skills on runtime or system programming

- **Additional Knowledge and Professional Experience**
  - Distributing computing knowledge

- **Competences**
  - Good level of English

**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 - 6 months renewable
- 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 - 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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