117_CS_WADC_JrDev

Job Reference

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Position

Developer for TANGO project

Data de tancament

Diumenge, 31 Desembre, 2017

About BSC

BSC-CNS (Barcelona Supercomputing Center – Centro Nacional de Supercomputación) is the National Supercomputing Facility in Spain and manages MareNostrum, one of the most powerful supercomputers in Europe. The mission of BSC-CNS is to investigate, develop and manage information technology in order to facilitate scientific progress. With this aim, special dedication has been taken to areas such as Computer Sciences, Life Sciences, Earth Sciences and Computational Applications in Science and Engineering.

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BSC-CNS YouTube Channel

BSC-CNS Corporate Video

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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 (tango-project.eu), the group is working on the integration of the COMPSs programming model to heterogeneous processors (GPUs, FPGAs, ...) through the OmpSs programming model. For this research, the group department is looking for a developer.
**Key Duties**

- Support to the development of the necessary software to integrate the COMPSs and OmpSs programming models (compss.bsc.es, pm.bsc.es)
- Development of the necessary software to support FPGAs as execution platform for the COMPSs+OmpSs programming model
- Support to the project use cases from industrial partners
- Development of a set of mini-apps on top these programming models
- Test the new features with benchmarks and applications
- Attend project meetings

**Requirements**

- **Education**
  - Computer Engineering degree

- **Knowledge**
  - Expertise in Java and C++ programming
  - Experience in programming FPGAs will be valued
  - Knowledge of runtime systems, GPU programming, parallel programming will be appreciated

- **Professional Experience**
  - No previous experience is necessary, although appreciated

- **Competences**
  - Problem-solving, pro-active, result-oriented work attitude
  - Capability to work in an international and fast-paced work environment towards tight deadlines
  - Good communication skills including a good command of the English language (written and spoken)

**Conditions**

The position will be located at BSC within the Workflows and Distributed Computing group from the Computer Science department. The contract will be for the duration of the project.

**Applications Procedure**

All applications must include:

1. A motivation letter
2. A full CV including contact details
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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