Barcelona Supercomputing Center (BSC)
Spain

Developer for Tango Project

- **Deadline**: Oct. 16, 2017
- **Career levels**: Engineer, Master, PhD student, Software Engineer
- **Keywords**: Computer Architecture, GPUs / Heterogeneous Systems, HPC / Exascale, Parallel Computing

**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 and Professional Experience**
- 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

**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 be applied in BSC website including:
A motivation letter
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.

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 460 staff from 44 countries.

Look at the BSC experience:

- BSC-CNS YouTube Channel
- BSC-CNS Corporate Video
- Let’s stay connected with BSC Folks!