60_CS_CAOS_R1

Job Reference

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Position

PhD Student - R1

Data de tancament

Diumenge, 10 Març, 2019

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Job title: PhD Student - R1

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

In the framework of several H2020 European projects and projects with industry, the group is aiming to investigate the applicability of parallel programming models into critical embedded systems to cope with the future performance requirements (e.g., autonomous driving). Distributing computing technologies such as COMPSs and as well as advanced parallel programming models for parallel and heterogeneous processors (e.g. many-core fabrics, GPUs) will be considered. For this research, the group is looking for a PhD Student to investigate the use of these technologies in critical systems.

Key Duties
- Investigation of novel run-time and compiler solutions targeting critical systems on parallel embedded architectures and distributed systems
- Support the development of the necessary software to integrate the framework into critical real-time environments
- Attend project meetings

Requirements

- Education
  - Master in Computer Science

- Essential Knowledge and Professional Experience
  - Knowledge on Java and C/C++ programming

- Competences
  - Problem-solving, pro-active, result-oriented work attitude
  - Good communication skills including a good command of the English language (written and spoken)

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 - 3 years 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: March 2019

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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