64_CS_CAPP_RE1

Job Reference

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Position

Software Engineer for project “Checkpointing for High-Performance Computing” (RE1)

Data de tancament

Diumenge, 31 Març, 2019
Reference: 64_CS_CAPP_RE1
Job title: Software Engineer for project “Checkpointing for High-Performance Computing” (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.

Look at the BSC experience:
BSC-CNS YouTube Channel
Let's stay connected with BSC Folks!

Context And Mission

The Computer Science Department at the Barcelona Supercomputing Center (BSC) is offering a full-time software engineer position. The engineer will work on a project that studies and implements new techniques in open-source fault tolerance software for high-performance computing (e.g., multilevel checkpoint-restart). We strongly encourage the application of candidates who are interested in a close collaboration with industry and contact with cutting edge technology developers.

Key Duties

- Integration, improvement and maintenance of resilience techniques for the FTI library developed at
BSC

- Continuous integration and unitary tests of the resilience software developed
- Performance analysis of parallel applications and integration of the resilience techniques developed
- Large scale evaluation of checkpointing techniques with scientific applications

Requirements

- Education
  - B.Sc or M.Sc in Computer Science or a related discipline

- Essential Knowledge and Professional Experience
  - Experience with Unix/Linux environments
  - Skills in programming languages (C/C++, Fortran, Python, Perl, Bash)
  - Experience with parallel programming models (OmpSs, OpenMP, MPI)

- Additional Knowledge and Professional Experience
  - Experience with git, travis and jenkins (and other continuous integration tools) is a plus
  - Experience in developing fault tolerance middleware is a plus

- Competences
  - Capacity to interact and build strong relations with computer scientists
  - Excellent written and verbal communication skills
  - Ability to take initiatives, prioritize the tasks and work under set deadlines
  - Ability to work both independently and within a team
  - Ability to learn and adapt to multiple programming languages easily

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 - 1 year 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: 01/04/2019

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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