Job Reference

186_CS_SS_RE1RE2

Position

Junior C/C++ Developer (RE1/RE2)

Data de tancament

Dimecres, 28 Febrer, 2018

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

BSC-CNS Corporate Video

Let's stay connected with BSC Folks!

Context and Mission

The Storage Systems Research Group is offering a junior developer position to collaborate on the development of next-generation large-scale storage systems based on emerging Storage Class Memory (SCM) technologies. The candidate will support the design, coding and testing of any software prototypes produced by the group, and will also be involved in the day-to-day development of international research projects and collaborations with industrial partners such as Intel, IBM or Fujitsu. To this end, the group is searching for a motivated and talented developer with excellent programming skills and an interest/background in storage technologies and High Performance Computing.
Key Duties

- Collaborate in the design, coding, and testing of distributed, SCM-based prototypes
- Identify bottlenecks and bugs, and devise solutions to these problems
- Help maintain code quality, organization, and automatization

Requirements

Education
- MSc in Computer Sciences, Computer Engineering, Telecommunication Engineering or equivalent

Essential Knowledge and Professional Experience
- Proficiency in C with thorough knowledge of the ANSI/ISO standard library
- Proficiency in C++ with thorough knowledge of STL containers and algorithms
- Good understanding of memory management in non-garbage collected environments
- Knowledge of low-level threading primitives

Additional Knowledge and Professional Experience
- Knowledge of network communication mechanisms
- Knowledge of the Linux kernel and especially of the VFS subsystem
- Previous experience developing in-kernel/user-level filesystems
- Knowledge of the architecture of current distributed filesystems
- Familiarity with language tools, such as Valgrind, Oprofile, etc.
- Proficient understanding of code versioning tools such as Git, SVN, and Mercurial

Competences
- Critical and creative thinking skills
- Excellent written and verbal communication skills
- Fluent in English
- Capacity to interact and build strong relations with a diverse members/stakeholder/staff base
- Ability to work both independently and within a team
- Ability to take initiative, prioritize and work under set deadlines and pressure

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
- 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
- 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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