242_CASE_FS_RE1RE2

Job Reference

242_CASE_FS_RE1RE2

Position

Junior Developer (RE1/RE2) on Computational Modeling for Fusion

Data de tancament

Diumenge, 14 Gener, 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

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Context and Mission

The Computer Applications in Science and Engineering (CASE) department is looking for a junior developer with a degree in Computer Science to work in the BSC Fusion group (fusion.bsc.es). The Fusion group develops applications to simulate plasma behavior in fusion reactors. The position supports the developments in the group and involves different state-of-the-art technologies.
Key Duties

- Participate in the development of applications: coding, debugging and testing
- Analysis and optimization of applications to be used on supercomputers

Requirements

- Education
  - Computer Sciences Degree or similar

- Essential Knowledge and Professional Experience
  - Experience in programming, especially in C and FORTRAN
  - Experience in parallel programming models: vectorization, MPI and OpenMP
  - Strong skills in Linux environment (shell, build, configure…). HPC skills will be valued
  - Experience using performance analysis tools
  - Experience in numerical methods will be appreciated
  - Experience in physics will be valued

- Competences
  - Fluency in spoken and written English
  - Highly collaborative spirit and ability to work as part of a large, strongly-coordinated team and to continuously share both knowledge and tools
  - Ability to efficiently communicate results

Conditions

- The position will be located at BSC within the CASE 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
- Duration: 2 years (renewable)
- 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.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación