150_CS_RSPPM_R0

Job Reference

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Position

Undergraduate Student for Runtime Systems for Parallel Programming Model R0

Data de tancament

Dimarts, 31 Julliol, 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 Programming Models group at BSC is offering a part-time position compatible with pursuing a CS degree. The successful candidate will work on the OmpSs programming model, participating in industrial and/or European research project, extending the framework to support new requirements and disseminating the work through conference and journal publications. We are looking for a motivated and talented undergraduate student with a good academic record and background or interest in programming models, High Performance Computing and computer architecture.

Key Duties

- Extend OmpSs with new features by extending both Mercurium compiler and/or Nanos runtime system

Requirements
• Education
  o Final year BSc student in Computer Sciences, Computer Engineering, Telecommunication Engineering or equivalent.
• Essential Knowledge and Professional Experience
  o Excellent computing skills in C/C++ programming languages.
• Additional Knowledge and Professional Experience
  o Experience in MPI, GPGPU programming (CUDA and OpenCL) and UNIX/LINUX environments will be valued.
• Competences
  o Good written and verbal communication skills.
  o Ability to take initiative, prioritize and work under set deadlines and pressure.
  o Ability to work independently and in a team

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: 01/09/2018

Applications Procedure

All applications must include:

• A motivation letter with a statement of interest, including two contacts for further references - COMPULSORY - 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.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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