230_OP_SA_HPCSup

Job Reference

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Position

HPC SUPPORT & Application consultant

Data de tancament

Diumenge, 31 Desembre, 2017

About BSC

BSC-CNS (Barcelona Supercomputing Center – Centro Nacional de Supercomputación) is the National Supercomputing Facility in Spain and manages MareNostrum, one of the most powerful supercomputers in Europe. The mission of BSC-CNS is to investigate, develop and manage information technology in order to facilitate scientific progress. With this aim, special dedication has been taken to areas such as Computer Sciences, Life Sciences, Earth Sciences and Computational Applications in Science and Engineering.

Look at the BSC experience:

BSC-CNS YouTube Channel

BSC-CNS Corporate Video

Let's stay connected with BSC Folks!

Context and Mission of the role:

The Barcelona Supercomputing Center-Centro Nacional de Supercomputación (BSC-CNS) is looking for a User support and Application Consultant candidate to join the user support group inside the BSC-CNS's Operations Department.

Responsibilities:
The position will be responsible for the resolution of the 2nd level support requests generated by the HPC users working with the BSC supercomputers and also to participate in European and national projects to cooperate with other centers and work together in EU infrastructures to reinforce the use of HPC, deep learning and Big Data around the EU researchers.

The main tasks will be:

- Porting and optimization of various scientific application codes to multiple supercomputing platforms.
- Performance analysis and benchmarking of applications.
- Support to researchers within their work field: (Engineering, Chemistry, Biology, ... )
- Addressing scientific user issues as they are encountered as users pursue HPC results on the supercomputing resources available.
- Collaborating with other functional groups within the center on technical matters related to supporting scientific application work.
- Participating in European e-infrastructures projects like EUDAT, PRACE and HBP.

Qualifications:

- Education
  - Bachelor in Computer Science, Telecommunications, Physics or related discipline.
  
- Knowledge and Professional Experience
  - Experience in working with codes programmed in Fortran, C, MPI, OpenMP, and other parallel methods
  - Experience compiling and porting codes to different HPC architectures.
  - Experience using GPU’s and a basic knowledge of acceleration programming languages (CUDA or/and OpenACC)
  - Experience with the use of performance analysis tools, compiler and debuggers.
  - A good understanding of high performance computing architectures.

Competences:

- Excellent interpersonal skills to be able to work within a team to complete tasks on schedule.
- Analytical problem solving ability.
- Team work.
- Planning and organizing (Structured mindset).
- Proactive Cooperation (Desire to learn and improve).
- Service Attitude.
- Flexibility.

Applications Procedure

All applications must be done through the BSC website, including:

1. Motivation letter and a statement of interest, including two recommendation letters or contacts.
2. A full CV including contact details

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