175_CASE_GA_R2R3

Job Reference

175_CASE_GA_R2R3

Position

Senior Researcher in Geophysical Modelling and Inversion (R2/R3)

Data de tancament

Diumenge, 31 Desembre, 2017

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 Geophysical Applications group of the Computer Applications in Science and Engineering department of BSC-CNS seeks outstanding scientists in the field of geophysics who can contribute to the development of state-of-the-art 3D geophysical imaging tools. The candidate will be in charge of developments related to 3D modelling with parallel, high-order algorithms, as well as their optimization in target HPC platforms. The researcher is expected to collaborate intensively with software engineers and developers and report on its findings at internal meetings, meetings with our sponsor and international conferences.
Key Duties

- R&D related to geophysical simulations
- Development and testing of novel mathematical approaches for wave propagation
- Contribution to relevant scientific journals and conferences

Requirements

- Education
  - B.Sc. in Physics or Computational Sciences AND a Ph.D. in a topic relevant to the mission of the researcher

- Essential Knowledge and Professional Experience
  - Applied mathematics, Wave propagation in 3D, Geophysics, Parallel Computing, High-Performance Computing, MPI, openMP
  - At least one-year experience at the post-doc level in wave propagation problems or geophysics
  - Programming languages: C, Matlab, Fortan

- Competences
  - Problem-solving, pro-active, result-oriented work attitude
  - Capability to work in an international and fast-paced work environment
  - Good communication skills including
  - Languages: English(fluent) – Spanish (Basic)

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
- 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.