517_23_CASE_F_R2

Job Reference

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Position

Researcher in Scientific Computing (R2-R3)

Data de tancament

Diumenge, 31 Desembre, 2023
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Job title: Researcher in Scientific Computing (R2-R3)

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, was a founding and hosting member of the former European HPC infrastructure PRACE (Partnership for Advanced Computing in Europe), and is now hosting entity for EuroHPC JU, the Joint Undertaking that leads large-scale investments and HPC provision in Europe. 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 900 staff from 55 countries.

Look at the BSC experience:
BSC-CNS YouTube Channel
Let's stay connected with BSC Folks!

We are particularly interested for this role in the strengths and lived experiences of women and underrepresented groups to help us avoid perpetuating biases and oversights in science and IT research.

Context And Mission

The Computer Applications in Science and Engineering (CASE) department is looking for researchers in computational physics, computer science, engineering or related fields to join the BSC Fusion group (fusion.bsc.es). The BSC Fusion group aims to enhance modelling capabilities in fusion by code development, validation, integration and optimization, including the use of advanced HPC techniques. We work closely towards the objectives of EUROfusion (www.euro-fusion.org), the European fusion research programme for Horizon 2020, in collaboration with Fusion for Energy (F4E), ITER, International Tokamak
Physics Activity, and the Spanish national fusion laboratory CIEMAT. The successful candidate will participate in the group's R&D activities within the assigned domain.

Key Duties

- GPU programming in fusion codes
- Parallel optimization in fusion codes

Requirements

- Education
  - MSc or PhD in computers science, engineering, physics, or related fields

- Essential Knowledge and Professional Experience
  - Demonstrated experience in using and porting codes to GPUs
  - Strong skills in MPI-OPENMP environment
  - Experience in numerical methods, code development and scientific computing
  - Experience in scientific writing and communicating results

- Additional Knowledge and Professional Experience
  - Experience in programming
  - Experience in performance analysis of large supercomputing codes is desirable
  - Knowledge of debugging (C, C++, Fortran, MPI, OpenMP, OpenACC and CUDA) is desirable
  - Experience in training code users is desirable
  - Experience in working within interdisciplinary teams is desirable

- Competences
  - Flexible team player capable of working with others and also independently
  - Problem-solving, pro-active, result-oriented and positive work attitude
  - Good interpersonal skills, including in multicultural environments
  - Analytical thinking
  - Fluent English, both written and spoken

Conditions

- The position will be located at BSC within the CASE Department
- We offer a full-time contract (37.5h/week), a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours, extensive training plan, restaurant tickets, private health insurance, support to the relocation procedures
- Duration: Open-ended contract due to technical and scientific activities linked to the project and budget duration
- Holidays: 23 paid vacation days plus 24th and 31st of December per our collective agreement
- 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 and process

All applications must be made through BSC website and contain:

- A full CV in English including contact details
- A Cover Letter with a statement of interest in English, including two contacts for further references - Applications without this document will not be considered

In accordance with the OTM-R principles, a gender-balanced recruitment panel is formed for every vacancy at the beginning of the process. After reviewing the content of the applications, the panel will start the interviews, with at least one technical and one administrative interview. A profile questionnaire as well as a technical exercise may be required during the process.

The panel will make a final decision and all candidates who had contacts with them will receive a feedback with details on the acceptance or rejection of their profile.

At BSC we are seeking continuous improvement in our recruitment processes, for any suggestions or feedback/complaints about our Recruitment Processes, please contact recruitment [at] bsc [dot] es.

For more information follow this link

Deadline

The vacancy will remain open until a suitable candidate has been hired. Applications will be regularly reviewed and potential candidates will be contacted.

OTM-R principles for selection processes

BSC-CNS is committed to the principles of the Code of Conduct for the Recruitment of Researchers of the European Commission and the Open, Transparent and Merit-based Recruitment principles (OTM-R). This is applied for any potential candidate in all our processes, for example by creating gender-balanced recruitment panels and recognizing career breaks etc.

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.

For more information follow this link

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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