393_21_ES_CES_RE2

Job Reference

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Position

Technical support position on development of air quality forecasting systems (RE2)

Data de tancament

Dimarts, 16 Novembre, 2021
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Job title: Technical support position on development of air quality forecasting systems (RE2)

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 700 staff from 49 countries.

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

Context And Mission

The Earth Science department at the Barcelona Supercomputing Center searches for one junior developer willing to work on the operational air quality forecasting system CALIOPE. The position will support the developments to support up this system and will face different and state-of-the-art technologies. Furthermore, this position will be part of the Computational Earth Sciences group team dealing with many other IT profiles.

Key Duties

- Implementation, execution and monitoring of atmospheric numerical models (WRF-ARW, CMAQ,
MONARCH) in a High Performance Computing environment.

- Interact with computational earth sciences scientist to improve the performance and the reliability of the system. This includes communication with HPC user support at BSC.
- Interact with atmospheric composition scientist to understand processes and model configuration.

Requirements

- Education
  - Computer Science Degree or similar

- Essential Knowledge and Professional Experience
  - Experience in programming especially in Python and C++
  - Experience in parallel programming models and workflow-managers
  - Strong skills in Linux environment (shell, build, configure…). HPC skills will be valued.
  - Fluent English, both written and spoke
  - Proven experience in with operational Air Quality Forecast System models will be valued
  - Proven experience in Earth Sciences file types (NetCDF, GRIB, HFD…), tools (CDO, NCO…) and managing large volumes of data will be valued

- Competences
  - Experience in similar fields will be valued.

Conditions

- The position will be located at BSC within the Earth Sciences Department
- We offer a full-time contract, a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours, extensive training plan, tickets restaurant, private health insurance, fully support to the relocation procedures
- Duration: Temporary - 1 year renewable
- 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: 01/12/2021
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 of rejection of their profile.

For more information follow this link

Deadline

The vacancy will remain open until 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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