**220_ES_CES_RE1**

**Job Reference**

220_ES_CES_RE1

**Position**

Software Engineer - evaluation and quality control of climate data (RE1)

**Data de tancament**

Diumenge, 31 Març, 2019

**Reference:** 220_ES_CES_RE1

**Job title:** Software Engineer - evaluation and quality control of climate data (RE1)

**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](https://www.youtube.com/channel/UCgKs67FJLcN57dN2z2H46Lg)

Let's stay connected with BSC Folks!

**Context And Mission**

Within the Copernicus Climate Change Service (C3S), the Evaluation and Quality Control (EQC) function plays a critical role to ensure that the service meets the needs of a range of users for high-quality data and information, and in proposing the necessary evolution of the service itself, while shaping the research agenda to attend the most important challenges detected.

The Earth Sciences Department of the BSC will be in charge of developing and implementing a system to evaluate the quality of the operational data from the C3S, both observations, seasonal forecasts, and climate projections, as well as the quality of the toolbox and the whole service.

The successful applicant will join the BSC Computational Earth Sciences group to help with the practical implementation of such an evaluation system based on the work done in the previous projects.

Moreover, the applicant will contribute to the implementation of the ongoing strategy to develop the Earth Sciences Department tools, thereby increasing the applicability and international visibility—and hence the
impact—of the research coming out of current and future projects.

**Key Duties**

- Experience with UNIX/LINUX environments and scripting languages (bash, python, etc.)

**Requirements**

- **Education**
  - BSc in computer science, telecommunications, physics or a related discipline

- **Essential Knowledge and Professional Experience**
  - Excellent computing skills in R or other interpreted languages
  - Good programming skills to manage big and collaborative projects and experience with git
  - Good knowledge of climate data formats (GRIB, NetCDF)
  - Previous experience in HPC architecture and parallel programming (multi-threaded applications) will be valued
  - Knowledge of workflow design is not necessary but will be valued

- **Competences**
  - Capacity to interact and build strong relations with both climate and computer scientists
  - Excellent written and verbal communication skills
  - Ability to take initiatives, prioritize the tasks and work under set deadlines
  - Ability to work both independently and within a team
  - Ability to learn and adapt to multiple programming languages easily
  - Fluency in English, both speaking and writing

**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 hours, extensive training plan, tickets restaurant, private health insurance, fully support to the relocation procedures
- Duration: Temporary - 2 years 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: asap

**Applications Procedure**

All applications must include:

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