

**236_ES_CES_RE2**

**Job Reference**

236_ES_CES_RE2

**Position**

Data Management Engineer

**Data de tancament**

Dilluns, 25 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](https://www.youtube.com)

[BSC-CNS Corporate Video](https://www.youtube.com)

[Let's stay connected with BSC Folks!](https://www.bsc.es)

**Context and Mission of the role**

Within the Earth Sciences Department of Barcelona Supercomputing Center, led by Prof Francisco Doblas-Reyes, the climate prediction group aims at developing a climate prediction capability for time scales ranging from a few weeks to a few decades into the future (sub-seasonal to decadal climate prediction) and from regional to global scales. In the framework of the H2020 PRIMAVERA project, this will deliver novel, advanced and well-evaluated high-resolution global climate models, capable of simulating and predicting regional climate with unprecedented fidelity.
The successful applicant will join the Computational Earth Sciences group to provide guidance and technical support to external and internal users in the daily use of data systems and ensure adherence to Earth Sciences Consortiums standards. Furthermore, the successful applicant will devise and implement efficient and secure procedures for data handling and analysis with attention to all technical aspects as well as create and enforce policies for effective data management.

Moreover, the successful applicant will contribute to the ongoing strategy for the development of the Earth Sciences Department tools, thereby increasing the applicability and international visibility—and hence the impact—of the research coming out of present and future projects. This work will be carried out interacting closely with the climate prediction group and external collaborators/software vendors.

Requirements

- **Education**
- Having a Bachelor in Computer Science, Physics engineer, Mathematics, Physics or related discipline

- **Knowledge and professional experience**
  1. Proven experience as data manager
  2. Excellent computing skills in high-level computer languages (especially FORTRAN and C/C++) and experience with UNIX/LINUX environments and scripting languages (bash, Python, etc)
  3. Excellent programming skills to manage big and collaborative projects and experience with git and SVN
  4. Good knowledge of climate data formats (GRIB, NetCDF) and data dissemination technologies (e.g. THREDDS, ESGF)
  5. Previous experience in a scientific area related to the position, in particular climate or ocean modeling
  6. Previous experience in dealing with Metadata and Provenance Provision
  7. Previous experience in scientific software and tools (R, CDO, CDFTools, Python etc)
  8. Previous experience in HPC architecture and parallel programming (multi-threaded applications) will be valued
  9. Computer programming experience related to solving scientific computing problems involving the handling of very large projects
  10. Proven experience in the Design and Implementation of Quality-Control assessment strategies for large data sets
  11. Excellent understanding of data administration and management functions (collection, analysis, distribution etc.)

**Applications Procedure**

All applications must be done through the BSC website:

http://www.bsc.es/about-bsc/employment/vacancies

Including:

1. 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.