171_22_ES_CES_RE1

Job Reference

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Position

Software engineer for climate and health (RE1)

Data de tancament

Dilluns, 31 Octubre, 2022

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Job title: Software engineer for climate and health (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 770 staff from 55 countries.

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Context And Mission

The BSC Earth Sciences Department (ES) is looking for a software developer to consolidate and further develop the existing software environment for Earth data verification. The Data and Diagnostics Team (DDT), in which the position is located, has developed over the years a suite of R packages used by the scientists of the department to perform their analysis and verify the simulations over observations and reanalysis, from subseasonal to decadal time scales, from the load of the data to the computation of the diagnostics and scores and the visualization.

The successful applicant will join the team to contribute to the development and computational optimization of R packages linking climate and health data in decision-support models., in collaboration with the
Department’s Global Health Resilience (GHR) team. The mission of the GHR team is to apply a transdisciplinary approach to co-designing policy-relevant methodological solutions, to enhance surveillance, preparedness and response to climate-sensitive disease outbreaks and emergence. In close collaboration with stakeholders and R tool users, the successful applicant will participate in different projects operating in Europe and Latin America and the Caribbean to develop the R data analysis packages and functions needed. These packages will be developed within a High Performance Computing environment.

Moreover, the 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 and services coming out of present and future projects.

**Key Duties**

- Development and optimization of R packages for Health and Climate projects

**Requirements**

- **Education**
  - A Bachelor in Computer Science, Telecommunications, Mathematics, Physics or related discipline

- **Essential Knowledge and Professional Experience**
  - 0 to 5 years of experience on a similar position
  - Excellent skills in R or other interpreter languages
  - Experience with UNIX/LINUX environments and scripting languages (bash, etc)
  - Good knowledge of climate data formats (GRIB, NetCDF)
  - Previous experience in HPC architecture and parallel programming (multi-threaded applications) will be valued
  - Good programming skills to manage big and collaborative projects and experience with git

- **Additional Knowledge and Professional Experience**
  - Knowledge of health related data types will be valued but is not mandatory

- **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 working hours, extensive training plan, tickets restaurant, private health insurance, fully support to the relocation procedures
- Duration: Permanent conditioned to funding availability
- 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 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
This position is reserved for candidates who meet the requirements and have the legal status of disabled persons with a degree of disability equal to or greater than 33%. In case there are no applicants with disabilities that meet the requirements, the rest of the candidates without declared disability will be evaluated.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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