Job Reference

554_23_ES_CS_R2

Position

PostDoctoral Researcher. Climate services for health (R2)

Data de tancament

Diumenge, 31 Desembre, 2023
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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 aim of the Earth System Services Group (ESS) within the Earth Sciences Department is to research the impact of weather, atmospheric chemistry and climate upon socio-economic sectors such as renewable energy, agriculture, water management, forest fires and urban development and demonstrate the ongoing value of earth system services to society and the economy.

Within this context, we are looking for a climate scientist to work on the development of sub-seasonal,
seasonal and decadal climate service products for health. We co-develop impact-based forecasting models at sub-seasonal to decadal timescales in collaboration with public health, disaster risk management, and humanitarian agencies. This helps enhance surveillance, preparedness and response to climate-sensitive disease outbreaks and health outcomes and to disentangle the impacts of global environmental change on infectious disease risk.

The person appointed will be involved in different EU projects and national initiatives. The selected candidate will work with state-of-the-art climate predictions to obtain relevant climate indicators for health assessments at both global and local spatial scales. His/her activity will be positioned within the context of WMO’s Global Framework for Climate Services (GFCS), whose aim is to advance climate predictions to provide actionable sub-seasonal to decadal climate information to key sectors of society. This position therefore presents the opportunity to work alongside a wide range of leading international climate scientists delivering cutting-edge climate science and climate services across Europe. The position holder will enjoy joining one of the leading and most dynamic European groups in the field of climate services.

Successful candidates will benefit from expert training and BSC-CNS staff benefits: international multidisciplinary scientific environment and advanced applied research training. We encourage applications from highly motivated candidates with demonstrated experience in climate science and interest in applied research projects within the context of climate services.

**Key Duties**

- Perform user-oriented research, understand user needs and facilitate technology transfer
- Actively participate in the management of work packages in EU projects (participate in teleconferences workshops, meetings and writing deliverables)
- Disseminate the results in peer-reviewed scientific papers and international conferences
- Teamwork: Interaction with scientists in the group and the department to favour synergies
- Participate in projects proposal preparation
- Active involvement in the engagement with users within the climate services context

**Requirements**

- **Education**
  - Degree in Physics, Environmental Sciences, Mathematics (or similar)
  - PhD in atmospheric sciences, applied statistics or related field
- **Essential Knowledge and Professional Experience**
  - Experience handling, analysing and validating large climate model datasets
  - Experience with climatic statistical analyses
  - Scientific programming in a suitable language (e.g. R, Python) and familiarity with working in a UNIX environment
  - Written and verbal communication skills in English, especially for scientific publications
  - Ability to work in a professional environment within a multidisciplinary and international team
- **Additional Knowledge and Professional Experience**
Candidates with research expertise in all aspects of climate science (climate dynamics, climate diagnostics, climate modelling), climate impacts on society (atmospheric environment, biodiversity, economy and finance, energy, health, infrastructure, marine environment, water resources, etc.) or climate risk are welcome to apply. Candidates with experience in energy/agriculture/water management companies and consultancy companies will be also welcome.

- Experience working with sub-seasonal, seasonal or decadal climate predictions / climate change projections is highly recommended.
- It will be positive valued but not mandatory having experience in developing climate related extreme indices, bioclimatic or tailored indicators to specific sectors, such as energy, agriculture, water management or forest fires.
- It will be positive valued but not mandatory having experience on some of the following topics: statistical downscaling, multi-model combination techniques, bias adjustments techniques or tropical/extratropical teleconnections will be positively evaluated but not needed.

**Competences**

- Problem-solving, pro-active, result-oriented work attitude
- Capability to work in an international team
- Organizational capacity for dealing with parallel tasks
- Good communication skills

**Conditions**

- The position will be located at BSC within the Earth Sciences 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: a continuació
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