Position

Postdoctoral researcher on responses and variability of extremes in climate projections (R2)

Data de tancament

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Reference: 598_23_ES_CVC_R2

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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

We are looking for an enthusiastic and motivated researcher to join our group for a position focusing on the analysis of climate simulation ensembles. This position will be hosted in the Climate Variability and Change (CVC) Group within BSC's Earth Science Department. The CVC Group undertakes fundamental research to (1) understand climate variability and change, including for climate extremes, (2) investigate global biogeochemical dynamics, and the effectiveness and impacts of carbon removal technologies to mitigate climate change, (3) develop new Earth System modeling capabilities, and (4) improve our ability to forecast
the climate variations from one month to multiple decades into the future, both at global and regional scales.

The offered position will contribute to several European Horizon2020 and Horizon Europe projects such as LANDMARC, RESCUE and ASPECT, to
(i) analyse the regional exposure to different climate hazards,
(ii) analyse the reversibility of climate extremes in overshoot scenarios, and
(iii) develop and apply novel process constraints to large ensembles of climate simulations for more accurate information about future climate.

The candidate will perform independent research in the context of the above-mentioned projects, contribute to the completion of project deliverables, and actively publish the scientific results in high-quality journals.

This is a continuing position subject to follow-up funding availability.

**Key Duties**

- Develop and apply diagnostics to analyse climate simulation ensembles with a focus to understanding forcing responses and variability of climate extremes
- Evaluate climate responses, variations and processes in climate models against observational data
- Lead the preparation of scientific publications, and present the research at scientific workshops conferences and project meetings
- The candidate will work closely with scientists within the Climate Variability and Change Group and other groups of the Earth Sciences Department, and with international project partners

**Requirements**

- **Education**
  - PhD in atmospheric or climate sciences, physics, applied mathematics, or a related discipline
- **Essential Knowledge and Professional Experience**
  - Demonstrated experience in the analysis of large climate model ensemble data
  - Experience in the analysis of climate extremes would be valued
  - Proven ability to prepare and submit manuscripts to peer-reviewed scientific journals
  - Programming skills: scripting (e.g. bash, Python), data analysis and visualization software (e.g. CDO, NCO, R, Python)
- **Additional Knowledge and Professional Experience**
  - Interest and capacity to participating in the writing of research and computing proposals
  - Knowledge of version control systems (git, svn, …)
- **Competences**
  - Fluency in spoken and written English, while fluency in other European languages will be also valued
  - Highly collaborative spirit and ability to work as part of a large, strongly-coordinated team and to continuously share both knowledge and tools
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: January 2024 if possible, or as soon as possible

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