

927_24_ES_CVC_R0

Job Reference

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Position

Master Student - evaluating land-atmosphere interactions associated with hot and dry extremes in seasonal prediction models (R0)

Fecha de cierre

Lunes, 30 Diciembre, 2024

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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 1000 staff from 60 countries.

Look at the BSC experience:

[BSC-CNS YouTube Channel](#)

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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. In instances of equal merit, the incorporation of the under-represented sex will be favoured.

We promote Equity, Diversity and Inclusion, fostering an environment where each and every one of us is appreciated for who we are, regardless of our differences.

If you consider that you do not meet all the requirements, we encourage you to continue applying for the job offer. We value diversity of experiences and skills, and you could bring unique perspectives to our team.

Context And Mission

The successful candidate will conduct process-based and statistical analyses of the climate simulation data and compare these to observational estimates, with the goal to evaluate both the process representation in the seasonal prediction models and the predictability of relevant variables.

Key Duties

- Analyze land-atmosphere interactions and relevant variables in state-of-the-art seasonal prediction systems
- Evaluate process representation and predictability in comparison to observations
- the research should form the basis of a Master thesis

Requirements

- Education
 - Having a degree in Climate Science, Meteorology, Oceanography, Mathematics, Physics or a related discipline
- Essential Knowledge and Professional Experience
 - Excellent coding skills in R, Python
 - Experience with UNIX/LINUX environments and scripting languages (bash,...)
- Additional Knowledge and Professional Experience

- Experience of version control in a distributed team, including SVN or Git will be valued
 - Previous experience in a scientific area related to the research position, in particular climate or ocean modeling will be valued
 - Previous experience in HPC architectures and parallel programming (multi-threaded applications) will be valued
 - Fluency in English
- Competences
 - Good written and verbal communication skills
 - Ability to take initiatives prioritize tasks and work under set deadlines

Conditions

We are offering a research internship over 4 months (with the possibility of a part-time contract). In the position the successful applicant will evaluate multi-model seasonal prediction systems for their representation of land-atmosphere interactions, with a focus on hot and dry climate extremes. This position will be hosted by the Climate Variability and Change group within BSC's Earth Science Department.

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

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