

## [424\\_24\\_ES\\_CVC\\_RE1](#)

### Job Reference

424\_24\_ES\_CVC\_RE1

### Position

Research Engineer - Impact of horizontal model resolution on European Climate (RE1)

### Data de tancament

Dimecres, 31 Juliol, 2024

**Reference:** 424\_24\_ES\_CVC\_RE1

**Job title:** Research Engineer - Impact of horizontal model resolution on European Climate (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, 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](#)

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

### Context And Mission

We are offering a junior research engineer short contract to investigate the role that the North Atlantic Ocean plays in European hydroclimate, with a specific focus on the mediating role played by mesoscale ocean eddies, seeking also to disentangle the internally from externally-driven changes. This will be done through the analysis of different high-resolution historical and control climate simulations. This research will contribute to the European Project EERIE on the role of mesoscale eddies in the regional expression of

climate change.

## **Key Duties**

- Characterising the simulated trends in European precipitation in historical (forced) and control (unforced) eddy-resolving climate simulations , and comparing them with the observed trends
- Investigating the link between the precipitation trends and the large-scale atmospheric circulation
- Benchmarking the previous findings against an ensemble of lower resolution models

## **Requirements**

- Education
  - Being enrolled in a degree in Computer Sciences, Mathematics, Physics, Meteorology or equivalent
- Essential Knowledge and Professional Experience
  - Excellent coding skills in 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 weather and climate sciences will be valued as well
  - Fluency in English
- Competences
  - Capacity to interact and build strong relations with both climate and computer scientists
  - Good written and verbal communication skills
  - Ability to take initiatives prioritize tasks and work under set deadlines

## **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.
- Duration: Temporary
- 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: 16/09/2024

## **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

---

**Source URL (retrieved on 13 jul 2024 - 23:27):** <https://www.bsc.es/ca/join-us/job-opportunities/42424escvcre1>