

## 970\_24\_ES\_CES\_RE2

### Job Reference

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### Position

Research engineer - Web developer (RE2)

### Data de tancament

Divendres, 03 Gener, 2025

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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

Within the Department of Earth Sciences of the Barcelona Supercomputing Center (BSC), led by Prof. Francisco Doblas-Reyes, the Computational Earth Sciences group is looking for a web developer with knowledge and experience in ReactJs to improve the Graphical Interface (<https://earth.bsc.es/gitlab/wuruchi/autosubmitreact>) from the Autosubmit workflow manager (<https://pypi.python.org/pypi/autosubmit>). Python skills will also be desirable to help develop and maintain Autosubmit.

Autosubmit is a Python-based software that allows you to create, manage and monitor climate and weather modeling experiments by interacting with computing clusters and supercomputers through Secure Shell, being able to combine multiple platforms in the same workflow. It is the tool used in the BSC to carry out experiments with the EC-Earth climate model, the NEMO ocean model, or the MONARCH air quality model. These types of workflow applications are really important due to the advent of new and more flexible software technologies that require scalable and robust model orchestration procedures.

We need a proactive candidate with good programming skills to join our development team and improve the most used tool in the department by adding a new graphic layer to improve the user experience and increase the efficiency of this software.

## Key Duties

- Join the Autosubmit development team
- Design and develop software improvements within an Agile framework
- Work on improvements for the Autosubmit web graphical user interface
- Help to maintain the current operation on different HPC platforms
- Contribute to user support by deploying patches
- Contribute to the documentation including all the new developments and features in the existing manuals

## Requirements

- Education
  - Bachelor in Computer Science, Telecommunications or related discipline.
  - Having a Master's degree will be valued
- Essential Knowledge and Professional Experience
  - Web programming skills: Javascript (ReactJS), CSS, REST, etc.
  - Python development skills.
  - Experience with UNIX/LINUX environments and scripting languages (bash, ...)
- Additional Knowledge and Professional Experience
  - Previous knowledge of the development and execution of scientific applications on parallel computers can be of help
  - Experience of version control in a distributed team, including SVN or Git
  - Previous experience with workflow management solutions will be highly valued.
  - Fluency in English
- Competences

- Excellent problem-solving skills with a proactive approach
- Willingness and capacity to learn about new technologies and procedures
- Capacity to work and communicate in an international and interdisciplinary working environment
- Excellent written and verbal communication skills
- Ability to take initiative, prioritize and work under set deadlines and under pressure
- Ability to work both independently and within a team

## **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: 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 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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