480_24_CASE_NHRA_R3

Job Reference

480_24_CASE_NHRA_R3

Position

Modelling Specialist (hydrologist, atmospheric, risk) (R3)

Data de tancament

Divendres, 01 Novembre, 2024
Reference: 480_24_CASE_NHRA_R3
Job title: Modelling Specialist (hydrologist, atmospheric, risk) (R3)

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.

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

We seek a passionate and talented Climate Modelling specialist to join our Natural and Social Hazards (NaSH) group. In this role, you'll have the chance to work in a multidisciplinary team that aims to develop methodologies and products related to risk maps as well as early warning products, with a strong focus on solving real-world problems. This position will focus on how climate change might affect different hazards, we are interested in profiles that have experience in one or several of the following: hydrological drought/water stress, wildfire, extreme events, hydrology, atmospheric modelling. You will have the chance to drive the direction of future team projects. The methodologies that will be developed within these projects are based on physical modelling, sometimes assisted with AI/ML. We look for someone who is a quick and willing learner, and who is not afraid to get involved and form part of a close-knit team.

Key Duties

- Contribute to studying climate processes and their impact on regional and local weather patterns at various time scales.
- Collaborate on planning, designing, developing, testing, and maintaining software products with a multidisciplinary team.
- Contribute to developing and implementing catastrophe risk models for humanitarian and insurance sectors, enhancing societal resilience to natural hazards and mitigating climate change impacts.
- Find gaps in existing methodologies to design new projects.
- Contribute to writing funding applications.

Requirements

- Education
    - To have a Ph.D. degree in climate modelling, meteorology, atmospheric physics and dynamics or any other related field.

- Essential Knowledge and Professional Experience
    - Proven track record in climate/risk modelling applicable to this role
    - Experience with physical models.
    - Experience or strong interest in AI/ML tools and their application to modelling atmospheric phenomena will be considered a plus.

- Additional Knowledge and Professional Experience
    - Proficiency in English is a must. Good handling of Spanish is a plus
    - Demonstrates inter-dependence and ownership in managing projects to completion.
    - Experience with data analysis in languages such as Python.

- Competences
    - Focuses on providing excellent applied science research
    - Project management skills.
    - Possesses strong understanding and organizational skills with attention to detail and reliability.

Conditions

- The position will be located at BSC within the [department] 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 consideredIn 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 [dot] 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

---