

[423_24_CASE_DPPP_RE1](#)

Job Reference

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Position

Research Engineer - data visualization and digital twin (RE1)

Data de tancament

Dimarts, 16 Juliol, 2024

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Job title: Research Engineer - data visualization and digital twin (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](#)

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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.

Context And Mission

At the Visualization Group of the BSC, we are looking for a software engineer to work with us to develop infrastructure for our data visualization and digital twin pipelines. The position involves developing and deploying cluster and cloud based tools and platforms to process data, store it, and serve it to machine learning layers. In addition, the position will work with data analysis and machine learning models to produce insight and knowledge out of data. The candidate will work in close collaboration with other

members of the team.

Key Duties

- Install, configure, and run data gathering software.
- Perform basic data modeling, according to data sources and given databases principles
- Perform data cleaning, and basic procedures regarding data mining/analysis
- Collaborate in the design of software architectures
- Implement software according to specifications
- Collaborate with software engineers and data engineers
- Develop data pipelines for integrating and transforming data.

Requirements

- Education
 - The applicant is expected to hold an official university degree, such as “Informatics Engineering”, “Software Engineering”, “Data Engineering” or similar studies.
- Essential Knowledge and Professional Experience
 - Java and Python
 - SQL Databases
 - Software Architecture
 - Data Mining or Data Analysis
 - Data gathering via API or scraping
- Additional Knowledge and Professional Experience
 - Basic Knowledge of NoSQL Databases
 - Basic Knowledge of Machine Learning techniques
 - Web development
- Competences
 - Good written and verbal communication skills

Conditions

- The position will be located at BSC within the CASE 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: 1 Julio 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

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