

[577_24_CASE_DPPP_RE1](#)

Job Reference

577_24_CASE_DPPP_RE1

Position

Junior research engineer - Software/Data Engineer (RE1)

Data de tancament

Dimecres, 16 Octubre, 2024

Reference: [577_24_CASE_DPPP_RE1](#)

Job title: Junior research engineer - Software/Data Engineer (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.

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

At the Data Analytics and Visualization Group of the BSC, we are looking for a software engineer to work with us to deploy and develop software for data management, especially in the context of digital twins. The position involves developing software for handling different data structures, as well as developing data processing algorithms, accordingly. Also, the position involves deploying data ingestion, cleaning, and preparation procedures, making it available to other consuming layers.

The developments will be developed to run in local machines and internal High-Performance Computing, as well as cloud architectures. The candidate will work in close collaboration with multiple projects and other members of the team in developing these tools.

Key Duties

- Develop software for handling and processing different data structures, following a given database schema.
- Implement the data processing layer of a platform for urban digital twins
- Implement usable tools to control and monitor all steps of the different operations
- Deploy software and virtualize environments
- Document all the data preparation and processing steps to ensure traceability of the data
- Produce documentation of the code

Requirements

- Education
 - Bachelor's degree in Software Engineering or equivalent
- Essential Knowledge and Professional Experience
 - Expert knowledge of Python
 - Master's degree in Computer Science or equivalent. Alternatively, 1-year experience as a software engineer/developer
 - Experience on virtualization, communication, and storage platforms
- Additional Knowledge and Professional Experience
 - Experience working with Apache Kafka, Spark
 - Expert knowledge of Java or C++
 - Experience with some orchestrating software and Docker
 - Experience in workflow software
 - Interest in science, research, and engineering a plus
- Competences
 - Self-organization and problem-solving
 - Proactive, ability to take initiative and prioritize tasks
 - Ability to work independently
 - 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: 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](#)

Source URL (retrieved on 24 ago 2024 - 16:12): <https://www.bsc.es/ca/join-us/job-opportunities/57724casedpppre1>