559_23_CASE_DPPP_RE1

Job Reference

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Position

Data Engineer/Wrangler (RE1)

Data de tancament

Diumenge, 31 Desembre, 2023
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Job title: Data Engineer/Wrangler (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 900 staff from 55 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 oversight in science and IT research.

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 develop infrastructure and to manage the data ingestion and collection for our data pipelines, specially digital twins. The position involves developing and deploying data ingestion, cleaning, preparation, and storage pipelines, and make it available to machine learning and interface layers. The developments will be developed to run in 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 the data processing layer of a platform for urban digital twins
- Implement usable tools to control and monitor all steps of the pipelines
- 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 and C++
  - 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
  - Experience with some orchestrating software
  - 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](https://www.bsc.es/ca/join-us/job-opportunities/55923casedpppre1)

**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.

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