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Job Reference

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Position

Fullstack Developer (RE1)

Data de tancament

Diumenge, 31 Desembre, 2023
Reference: 558_23_CASE_DPPP_RE1
Job title: Fullstack Developer (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 oversights in science and IT research.

Context And Mission

The Computational Applications in Science and Engineering department (CASE) works with industry and academia to develop software and applications that leverage the power of High-Performance Computing to solve real problems.

In particular, a large line of research is the creation of efficient interfaces for these applications. The challenge is a composition of difficulties like large data volumes, complex data-based interaction and
representation, and scientific correctness. Inside the CASE department works the Data Analytics and Visualization group, whose role is to develop and apply advanced statistical and determinist models to extract valuable information from large data sets and convert them into visual and practical tools and representations.

The role of this position will be to develop and implement the backend and frontend of the applications, collaborating in the design of the architecture, with more weight on each side depending on the project. This person will collaborate on several different projects, as well as in internal applications that the group uses for its tools.

Key Duties

- Design and implement web-based application architectures (backend)
- Implement and deploy web-based application interfaces (frontend).
- Learn and transfer knowledge and technology to other projects in the group.
- The candidate will work closely with the project team and the rest of the analytics and visualization group.
- Collaborate in the maintenance and development of the group internal tools and systems.

Requirements

- Education
  - Degree in Informatics, Computer Science, or Engineering.
  - We will value equivalent hands-on experience in backend and frontend development and system administration.

- Essential Knowledge and Professional Experience
  - Server-side programming languages: Python, Java, Node, or Go.
  - Mapping technologies on web applications (Leaflet, Mapbox, CartoDB, etc.)
  - Strong experience with D3.js and/or WebGL
  - Strong experience in Javascript and interactive web application development
  - Strong experience in data visualization technologies inside interactive frameworks (e.g. React)

- Additional Knowledge and Professional Experience
  - Experience with relational and non-relational databases (e.g. SQL, PostGIS, MongoDB, Cassandra)
  - We will value experience with applied Big data and distributed computing projects and experience setting up data-processing projects in production
  - Knowledge of cloud and virtualization technology
  - Knowledge of Linux system administration (specially web server)
  - Fluency in spoken and written English and Spanish.

- Competences
  - Strong initiative to work on a challenging multidisciplinary innovation project involving talking to people in many fields.
  - Good communication skills, especially in producing internal documentation (manuals, white papers).
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: 01/01/2024

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](#)
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