[434_24_CS_DCC_R2](#)

Job Reference

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Position

PostDoc Researcher for Cloud-Edge Management Projects (R2)

Data de tancament

Dimecres, 31 Juliol, 2024
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Job title: PostDoc Researcher for Cloud-Edge Management Projects (R2)

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

The data-centric computing group from the computer science department at the Barcelona Supercomputing Center searches for 1 researcher as a PostDoc towards Cloud-Edge management platforms, willing to work on a Cloud-Edge Modelling and Orchestration in a EU project, for the course 2024-2025. The main objective is to participate in European research projects focused on data analysis of Cloud and HPC platforms, using machine learning for management. For this, we're looking for a PostDoc Researcher to join the DCC group and develop a research line in workload and environment characterization in large-scale systems and supercomputers. The mentioned tasks involve management of the BSC part of the project and the team involved, and searching for new sources of financement. The candidate should also communicate research results (writing scientific papers, assisting to scientific conferences, ...).

Key Duties

- Contribution to the development of frameworks for Cloud-Edge management
- Functional design and execution of experiments related to HPDA architectures and Cloud + Serverless
- Design of statistical and ML experiments towards multi-domain cases with large-volume data
- Collaborate with international research partners
- Manage and lead the CLOUDSKIN projects towards its succeed.

Requirements

- Education
  - Ph.D. on computer science or related fields (ICT, Mathematics, ...).

- Essential Knowledge and Professional Experience
  - Basic skills on Cloud Computing technologies
  - Basic skills on Virtualization and Containers
  - Domain of Bash/Java/Python/R languages and scripting
  - Basic skills on serverless and distributed computing concepts

- Additional Knowledge and Professional Experience
  - Basic skills on Big Data platforms and technologies (Spark, Lithops, etc...)
  - Basic skills on Reproducible Research (Notebooks, GIT, etc...)
  - Understanding of high performance computing and distributed system concepts

- Competences
  - Good English communication skills
  - Ability to work independently and in the context of a team/project
  - Management of EU projects

Conditions

- The position will be located at BSC within the Computer Sciences 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: 1st September

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