

453_24_CS_RSPPM_R0

Job Reference

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Position

Undergraduate Student - Star-Lenovo (R0)

Data de tancament

Dimecres, 31 Juliol, 2024

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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 System Tools and Advanced Runtimes (STAR) group is a computer system group that explores research crossing multiple layers of the system software stack, from OS, runtimes and low-level APIs to programming models, tools, and applications. Our goal is to improve system software stack to support increasingly complex workloads such as traditional HPC, AI and Data Analytics on massively parallel HPC and Cloud platforms

The STAR group offers a part time position (10h/week) to work on the intersection between the Linux kernel and runtimes systems. We are looking for a student interested in working on system software for HPC systems. The successful candidate will participate in industrial and European research projects, with the possibility to disseminate the work done through conference or journal publications. We are looking for a motivated and talented student interested in working on the Linux kernel and runtimes systems.

Key Duties

- Boot Linux OS on experimental Risc-V platforms
- Extend the Linux kernel with new interfaces and scheduling policies to improve the performance of task-based runtime systems.

Requirements

- Education
 - Undergraduate student in Computer Sciences, Computer Engineering, Telecommunication Engineering or equivalent.
- Essential Knowledge and Professional Experience
 - Experience in Linux kernel or parallel runtimes development will be highly valued.
 - Excellent computing skills and experience in C/C++ programming languages.
- Competences
 - Ability to take the initiative, prioritize and work under set deadlines and pressure
 - Ability to work independently and in a team

Conditions

- The position will be located at BSC within the Computer Sciences Department
- We offer a part-time fellowship (10h/week), a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours,
- Duration: 4 months
- 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: 16/09/2024

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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