**83_CS_CAPP_R3**

**Job Reference**

83_CS_CAPP_R3

**Position**

Computer Architect (R3)

**Data de tancament**

Diumenge, 31 Març, 2019  
Reference: 83_CS_CAPP_R3  
Job title: Computer Architect (R3)

**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, and is a hosting member of the PRACE European distributed supercomputing infrastructure. 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 500 staff from 44 countries.

Look at the BSC experience:  
BSC-CNS YouTube Channel  
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**Context And Mission**

Study of different Architectures for the EPI accelerator

**Key Duties**

- Develop and maintain a simulator for the vector processor accelerator for EPI project  
- Research on different design alternatives of the vector processor accelerator  
- Work with the team of engineers to modify RTL of the vector processor accelerator in order to improve it according the results of the research
Requirements

- **Education**
  - PhD on Computer Architecture or related PDPh with at least 5 years of experience in Computer Architecture

- **Essential Knowledge and Professional Experience**
  - Large expertise modifying simulators (like Gem5, Simplescalar) (5 or more years)
  - Expertise in RTL (Verilog, System Verilog, VHDL) (2 or more years)
  - Expertise working with FPGAs (2 or more years)
  - Expertise in Vector Architectures (2 or more years)

- **Competences**
  - Capacity to interact and build strong relations with computer scientists
  - Excellent written and verbal communication skills
  - Ability to take initiatives, prioritize the tasks and work under set deadlines
  - Ability to manage a group of students or engineers
  - Ability to work both independently and within a team
  - Fluent English, both written and spoken, another language would be a plus

Conditions

- The position will be located at BSC within the Computer Sciences Department
- We offer a full-time contract, a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible hours, extensive training plan, tickets restaurant, private health insurance, fully support to the relocation procedures
- Duration: Temporary - until 31/10/2022 - renewable
- 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: 01/05/2019

Applications Procedure

All applications must include:

- A motivation letter with a statement of interest, including two contacts for further references - Applications without this document will not be considered
- A full CV including contact details

Deadline

The vacancy will remain open until suitable candidate has been hired. Applications will be regularly reviewed and potential candidates will be contacted.
Diversity and Equal Opportunity Employment

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.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación