Applications are invited for a PostDoc position to conduct investigations on the timing performance) prediction for high-performance hardware platforms in the context of the reliable power and time-constraints-aware predictive management of heterogeneous systems.

The main objective is to propose appropriate models for the timing prediction of high-performance heterogeneous platforms, as well as reliability characteristics of those platforms for time-constrained applications.

Additionally, the researcher will need to collaborate on the progress of other research fronts related to the implementation of hardware designs on FPGAs advising PhD and master students, and engineers.
Key Duties

- Participate the development of timing models for high-performance heterogeneous hardware platforms.
- Participate in the development of time prediction models (for worst-case performance) for high-performance heterogeneous hardware platforms.
- Guide the development of hardware techniques on FPGA platforms.
- Co-advice PhD students on these topics.

Requirements

- Education
  - Degree in Computer Sciences or Telecommunications (or similar).
  - or PhD in Computer Sciences or Telecommunications (or similar).

- Essential Knowledge and Professional Experience
  - Previous experience on RTL design and verification, FPGA prototyping and RTL simulation tools.
  - Experience in high-performance memories: timing and reliability.
  - Experience in EU-funded and/or private-funded projects.

- Competences
  - Ability to take initiative, prioritize and work under set deadlines pressure
  - Ability to work independently and in a team
  - Capacity to interact and build strong relations with other research groups
  - Good verbal communication skills in English

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
- 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: 01/01/2019

Applications Procedure

All applications must include:

- A motivation letter with a statement of interest, including two contacts for further references - COMPULSORY - 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