Job Reference

399_21_CS_WDC_RE1

Position

Parallel Machine Learning research engineer (RE1)

Data de tancament

Divendres, 31 Desembre, 2021

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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, 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 700 staff from 49 countries.

Look at the BSC experience:

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Context And Mission

The Computer Sciences (CS) department of the Barcelona Supercomputing Center aims at carrying out research and development to influence the way computing machines are built, programmed and used. The Workflows and Distributed Computing group at the Barcelona Supercomputing Center aims at carrying out research on programming models for distributed computing. More specifically, this group is contributing to the CECH project (Cluster Emergent del Cervell Humà) with the dislib machine learning library and the programming model PyCOMPSs/COMPSs. The dislib (dislib.bsc.es) provides distributed algorithms ready to use as a library solving machine learning methods. The dislib is parallelized with PyCOMPSs/COMPSs. PyCOMPSs/COMPSs is a task-based programming model that aims at making easier the parallelization of applications and their execution in distributed computing platforms. For this research, the group is looking for a junior developer with knowledge both of machine learning and computer science to contribute to the dislib, implementing new methods and data structures.
CECH project (expedient number 001-P-001682) has been co-financed in a 50% with 1.527.637,88€ by the European Union European Regional Development Fund within the Catalonian 2014-2020 Operative Programme FEDER, with the Generalitat de Catalunya Support.

**Key Duties**

- Implementation of new methods for the dislib
- Extension of the dislib data structure to support n-dimensions
- Bug fixing, code maintenance for the dislib
- Maintenance of the dislib test infrastructure

**Requirements**

- **Education**
  - MS in Artificial Intelligence
  - BS in Computer science
- **Essential Knowledge and Professional Experience**
  - Machine Learning basics
  - Deep Learning basics
  - Good programming skills in Python and Java
- **Additional Knowledge and Professional Experience**
  - Knowledge in parallel machine learning
  - Knowledge in parallel programming models
- **Competences**
  - Fluency in spoken and written English, while fluency in other European languages will be also valued

**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 working hours, extensive training plan, tickets restaurant, private health insurance, fully support to the relocation procedures
- Duration: Temporary - One year, renewable 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: asap
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 of 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 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

This position is reserved for candidates who meet the requirements and have the legal status of disabled persons with a degree of disability equal to or greater than 33%. In case there are no applicants with disabilities that meet the requirements, the rest of the candidates without declared disability will be evaluated.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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