28_CS_ASBP_RE1

Job Reference

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Position

Junior Research Engineer (RE1/RE2)

Data de tancament

Dissabte, 31 Març, 2018

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

BSC-CNS Corporate Video

Let's stay connected with BSC Folks!

Context and Mission

The Computer Science department is working on Supercomputing for Artificial Intelligence, in particular right now with special focus on Deep Learning. In this context we have some projects with big companies. The open position will be assigned in one of these projects. The candidate will participate in this project and also in other ongoing exploratory research projects related with Deep Learning (and Artificial Intelligence in general) that are going on in our research group http://jorditorres.org/research-teaching/research-group/. The candidate occasionally will participate in activities around our research/teaching collaboration with https://imatge.upc.edu/web.
Key Duties

- Implementation of Deep Neural Networks training processes on TensorFlow/Keras/PyTorch
- Help in the design and creation of new models to improve the current models
- Managing workloads on HPC facilities, specially on a BSC-CNS GPU cluster in the process of training the DL models.
- Write the related documentation of this activity
- Attend meeting at client offices (Barcelona area) in order to help their development team to put in production the results of the innovation collaboration

Requirements

- Education
  - BCs/MSc in Computer Sciences, Telecommunication Engineering, Computer Engineering or equivalent

- Essential Knowledge and Professional Experience
  - Excellent computing skills in Python programming language
  - Demonstrable knowledge in the use of Deep Learning frameworks as TensorFlow/Pytorch/Keras.
  - Demonstrable knowledge in Machine Learning, Deep Learning and Artificial Intelligence in general
  - Experience managing workloads on HPCs (CPU and GPU clusters)

- Competences
  - Fluency in English essential: regular written and spoken communication in English will be required
  - Good written and verbal communication skills
  - Ability to take 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 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, home office, fully support to the relocation procedures
- 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

All applications must include:

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

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