Job Reference

3_CASE_NLP_RE2

Position

NLP Platform Development Engineer

Data de tancament

Dimecres, 28 Febrer, 2018

JOB DESCRIPTION

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

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Context and Mission
The CASE department of the BSC seeks Natural Language Processing experts for a newly established Language Technologies R&D group. CASE will host a Technical Management Office (OTG) and a reference center to support the Plan for the Advancement of Language Technology through scalable processing platforms and the use of HPC (High Performance Computing).

BSC-CASE is looking for a NLP Platform Development Engineer.

**Key Duties**

- Collaborate in the design of the OTG processing platform.
- Responsible of the technological part of the project with regard to the definition and implementation of the OTG and the OTG-supported projects.
- Lead the development of the platform’s scalability through the use of High Performance Computing techniques.

**Requirements**

- **Education**
  - Computer Science or Telecommunications degree.

- **Essential Knowledge and Professional Experience**
  - Extensive experience in text processing software projects.
  - Experience in a wide spectrum of R&D projects at the European and national levels.
  - Demonstrable experience, of at least five years, in installation, configuration, administration and operation of robust natural language processing architectures outside of academic lab environments and in industrial contexts. Experience with Mallet, IXA-pipes, GATE, Stanford, Freeling, etc. will be especially valued.
  - Ability to write well documented technical reports.
  - Demonstrable experience, of at least two years, in projects that incorporate continuous integration environments (SVN, Git, Jenkins, Maven, etc).
  - Demonstrable experience in HPC environments such as: MPI, OpenMP, OpenCL, CUDA, and in the performance evaluation of HPC applications.
  - Knowledge and coding experience in programming languages relevant to the project, including Python, Java, C++, etc.
  - Demonstrable experience, of at least two years, in the installation, configuration, administration and operation of Docker containers and elements of the Docker ecosystem (Docker Registry, Docker Swarm, Docker Compose, Docker Machine, Kubernetes, etc).
  - Demonstrable knowledge in applications based on Big Data technologies and distributed computing.
  - Working knowledge of machine learning techniques.
  - Working knowledge of English.

- **Additional Knowledge and Professional Experience**
  - Scientific curiosity and proactive initiative to solve complex technical problems.
  - Basic knowledge of Spanish and some other co-official language of the Spanish State.
  - Ability to work as a team player, and lead other software developers in the project.
Conditions

- The position will be located at BSC within the Computational Architectures in Science and Engineering 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
- Salary: we offer a competitive salary commensurate with the qualifications and experience of the candidate and according to the cost of living in Barcelona
- Duration of the contract: 1 year renewable until 3 years, with a test period of 6 months
- Starting date: January – February 2018

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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