351_22_LS_SLA_RE1

Job Reference

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Position

Junior Research Engineer for Social Link Analytics (RE1)

Data de tancament

Dilluns, 31 Octubre, 2022
Reference: 351_22_LS_SLA_RE1
Job title: Junior Research Engineer for Social Link Analytics (RE1)

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 770 staff from 55 countries.

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BSC-CNS YouTube Channel
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Context And Mission

Within the Life Sciences Department, we are looking for a research engineer to work on a recently granted project to explain the relationship between the vulnerability of Internet users to fake news and the dynamics of propagation and repercussion of these contents on social media. The project will explore the phenomenon from a holistic and comprehensive perspective by combining experimental research with quantitative and qualitative methods. The research engineer will be part of a team within this project that will develop tools, methods, and guidelines that can be employed by public health institutions, media organizations, and the general public to counteract the dissemination of fake news.

The work will be carried out at the Social Link Analytics unit (https://www.bsc.es/discover-bsc/organisation/scientific-structure/social-and-media-impact-evaluation). The unit develops methodologies to determine the social consequences of scientific projects by analyzing large data sets to assess the
consequences of the implementation of specific projects, monitoring their progress and assisting in the planning of new projects. The successful candidate will interact directly with a team in text mining and language processing covering domain application and project development-related aspects.

**Key Duties**

- Develop tools to collect, clean, process, and analyze social media data;
- Design a data collection pipeline to build datasets of information related to fake news using various APIs;
- Preparing multilingual datasets from social media for ML and statistical analysis;
- Train NLP models for text classification and topic modelling;
- Participate in the dissemination of results through visualisations, scientific articles, blogs, and online media posts.

**Requirements**

- **Education**
  - Degree in Computer Science, Data analysis or related discipline.

- **Essential Knowledge and Professional Experience**
  - Experience with software development and at least one of the following:
  - Experience in Python programming language;
  - Experience in web programming languages and frameworks (e.g., Javascript, HTML, CSS);
  - WordPress experience.

- **Additional Knowledge and Professional Experience**
  - Experience with Python data science tools (e.g., Pandas, Numpy, Jupyter Notebooks, Scikit-learn, Matplotlib/Seaborn) to obtain, curate, clean, analyze, and visualization of information;
  - Knowledge of ML and NLP tools (e.g. Pytorch/Huggingface/Transformer architecture);
  - Excellent verbal and written Spanish and English. Catalan language skills are also appreciated.

- **Competences**
  - Good communication and teamwork skills to work in a multidisciplinary team.

**Conditions**

- The position will be located at BSC within the Life 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: Open-ended contract due to technical and scientific activities linked to the project and budget duration.
- 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: 01/11/2022.
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 or 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
Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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