**403_22_LS_ICONBI_R2-3**

**Job Reference**

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**Position**

Post-doctoral Researcher in Computer and Biomedical Data Science (R2-R3)

**Data de tancament**

Dimecres, 30 Novembre, 2022

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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 770 staff from 55 countries.

Look at the BSC experience:

BSC-CNS YouTube Channel

Let's stay connected with BSC Folks!

**Context And Mission**

Professor Nataša Pr?ulj is looking for several post-docs to work in Machine Learning (ML) and network data science algorithms for mining molecular (“omics”) and medical data to improve precision medicine. They will be developing new algorithms for computationally hard problems and applying them to analyzing large-scale molecular and patient data to aid drug discovery and personalizing treatment. Sample papers from the lab can be viewed at Google Scholar. The successful candidates will work on the prestigious ERC Consolidator grant of Prof. Pr?ulj.

The successful candidates will address developing and applying sophisticated Machine Learning and network data science models and algorithms. The algorithms will be carefully tuned to extract relevant biological and medical knowledge from systems-level real-world molecular and medical data. The aim is to utilize them to understand the structure of the data that would enable mining algorithms efficiently for the
data to uncover new biological and medical insight that would further lead to improving diagnostics, discovering new biomarkers, improving patient stratification and treatment, personalizing treatment and facilitating rational drug development. The successful candidates will join a dynamic research group of Prof. Przulj within BSC. The students will work in a highly sophisticated HPC environment of BSC, will have access to systems and computational infrastructures, and will establish collaborations with experts in different areas.

**Key Duties**

- Conduct high-quality research
- Write and publish research papers in high impact peer-reviewed journals and conferences
- Present research at national and international conferences and meetings
- Collaborate with various research groups across Europe and elsewhere
- Help supervise PhD and MSc students
- Participate in grant writing and organizational activities
- Participate in educational and outreach activities

**Requirements**

- **Education**
  - PhD in Computer Science, Mathematics, Physics, Bioinformatics, or a related field
- **Essential Knowledge and Professional Experience**
  - Good publication record for the career stage
  - Fluency in spoken and written English
- **Additional Knowledge and Professional Experience**
  - Desired at least 2 years of working experience
- **Competences**
  - Good technical skills including at least several of the following: algorithms, data analysis, graph, network and complexity theory, scientific computing, statistics, machine learning, programming in C, C++, a scripting language and Matlab, using a parallel computing environment, bioinformatics, network biology, network medicine, network analytics, medical informatics.

**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: 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 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

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