144_LS_INBCN_R1

Job Reference

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Position

PhD Life Sciences Dept. INB Computational R1

Data de tancament

Divendres, 20 Juliol, 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
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Context And Mission

Our group at the Life Sciences Department is developing a research line centered in the functional characterization of sequence variants in proteins. We have developed PMut, a complete framework to test and apply protein derived features to the prediction of pathology. In this field structural and dynamic features of proteins are largely neglected, mainly due to the difficulties and cost of their obtention. We plan to initiate an ambitious project in the consideration of the role of dynamics features in the functional behaviour of protein variants than can be used to improve prediction algorithms. We seek a young bioinformatician with skills in understanding protein structure and dynamics to generate the core data necessary and develop the required methodology

Key Duties

- Develop and adapt methodologies for conformational analysis both from static structures and from
large scale simulations trajectories
• Develop automated methods for the setup of simulation of protein variants
• Develop analysis tools to derive dynamic features usable in pathology prediction

Requirements

• Education
  o Degree on Biochemistry, biotechnology or equivalent
  o Formation in Bioinformatics at a level of Master
• Essential Knowledge and Professional Experience
  o Experience in the analysis of protein structures, visualization, and simulations software
  o Programming skills (scripting)
  o Familiar with the use of supercomputing facilities
  o Familiar with the use of simulation software
• Additional Knowledge and Professional Experience
  o Knowledge of advanced statistics and data management
• Competences
  o Ability of understand scientific literature, and software documentation
  o Ability to communicate scientific results
  o Ability to work independently

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 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
• Starting date: 01/09/2018

Applications Procedure

All applications must include:

• A motivation letter with a statement of interest, including two contacts for further references - COMPULSORY - Applications without this document will not be considered
• 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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