241_LS.CG.2

Job Reference

241_LS.CG.2

Position

PostDoctoral position in Computational Genomics

Data de tancament

Dimecres, 27 Desembre, 2017

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 Computational Genomics group within the Life Science Department at the Barcelona Supercomputing Centre, offers a position for scientists with a PhD in bioinformatics or similar disciplines to carry out multiple analysis to understand the genetic and molecular basis of complex diseases and to design new diagnosis signatures based on the interaction of risk genetic variants. In more detail, the project aims at identifying novel risk variants on multiple diseases, to finally generate and evaluate maps of genetic interaction with clinical value. This project will also involve the use of cognitive computing approaches in order to identify genetic signatures that can be transformed into prognosis protocols. For the last ten years, our group has been focusing on studying the genomic basis of disease. In the field of complex disease, we have developed a novel methodology and protocols for comprehensive imputation and association testing (GWAS), that we have so far applied to several traits and phenotypes. See an example of our last study here: http://www.biorxiv.org/content/early/2017/04/04/112219

Selected candidates will be dealing with the analysis of BIG biological data, in a highly competitive computational environment, at the level of research and at the level of resources. This research frame offers postdoctoral scientist a unique opportunity to develop and improve their bioinformatic skills in the growing and expanding field of biomedical genomics. This activity will be carried out within a dynamic group that combines biological and computer sciences to seed light into the genetic basis of disease.

More information about the group and the activity can be found at: http://cg.bsc.es/cg/

**Main Responsibilities:**

- Coordinating other scientist and the research related to the application of bioinformatics tools for genome analyses in the context of genomics within an HPC environment.
- Coordination of different projects related to the analysis of complex diseases.
- To set up in the group, new approaches of cognitive computing in order to apply it to genomic clinical data.

**Skill Specifications**

- We seek for highly motivated postdocs that want to contribute to the understanding of the genetic basis of complex diseases.
- Candidates must be ready to push this project with certain independence and, at the same time, to work within a cooperative environment.

**Qualifications & Experience**

- Candidates with a PhD in bioinformatics will be prioritized.
- Strong experience in computational environments related to biomedical genomics.
- Experience with genotyping data within a biomedical context.

**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
- Duration of the contract: temporary
- Starting date: asap
Applications Procedure

All applications must include:

- A full CV including contact details

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

Source URL (retrieved on 25 des 2017 - 04:00): https://www.bsc.es/ca/join-us/job-opportunities/2411scgr2