

[371_24_LS_CG_RE1](#)

Job Reference

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Position

Computational genomics and bioinformatics engineer (RE1)

Data de tancament

Dimecres, 31 Juliol, 2024

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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, was a founding and hosting member of the former European HPC infrastructure PRACE (Partnership for Advanced Computing in Europe), and is now hosting entity for EuroHPC JU, the Joint Undertaking that leads large-scale investments and HPC provision in Europe. 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 1000 staff from 60 countries.

Look at the BSC experience:

[BSC-CNS YouTube Channel](#)

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We are particularly interested for this role in the strengths and lived experiences of women and underrepresented groups to help us avoid perpetuating biases and oversights in science and IT research. In instances of equal merit, the incorporation of the under-represented sex will be favoured.

Context And Mission

The Computational Genomics group, led by ICREA professor Toni Gabaldón, is looking for a highly motivated bioinformatician to develop, maintain and run data analysis pipelines related to next generation sequencing and genomics applications in the context of the SGR2021 Comparative genomics project. The project is focused on the analysis of sequencing data to i) assemble and annotate new reference genomes, ii) map re-sequencing data to estimate recent population genomics parameters, and iii) assess taxonomic and

functional diversity on meta-genomics sample. The candidate will join a dynamic research group within the Life Sciences department. The researcher will work in a sophisticated HPC environment and will have access to systems and computational infrastructures. Priority will be given to highly motivated and proactive candidates with a bioinformatics-related background and with the ambition to develop their career in the field of computational genomics.

Key Duties

- Developing, maintaining, and running, bioinformatics pipelines at cgenomics
- Designing and developing new software features, analysis pipelines, and databases
- Managing DevOps operations related to software deployment and maintenance across various computing infrastructures
- Perform bioinformatics tasks in collaborative projects
- Report to the group and team leaders
- Support other researchers in programming or HPC-related tasks

Requirements

- Education
 - Bachelor or Master's Degree in Computer Science, Biology, or related discipline
- Essential Knowledge and Professional Experience
 - Proficiency in at least one general-purpose programming language, such as Python, or R
 - Knowledge on next generation sequencing data analysis in at least two of these applications: genome assembly and annotation, metabarcoding analysis, metagenomics, or population genomics.
 - Knowledge of technologies such as Github, Docker or Singularity.
 - Knowledge of HPC usage
- Additional Knowledge and Professional Experience
 - The ideal candidate will have a strong background in bioinformatics, a keen attention to detail, and the ability to work effectively within a collaborative team environment
 - Fluency in spoken and written English.
- Competences
 - Ability to work both independently and within a team.

Conditions

- The position will be located at BSC within the Life Sciences Department
- We offer a full-time contract (37.5h/week), a good working environment, a highly stimulating environment with state-of-the-art infrastructure, flexible working hours, extensive training plan, restaurant tickets, private health insurance, support to the relocation procedures
- Duration: Open-ended contract due to technical and scientific activities linked to the project and budget duration
- Holidays: 23 paid vacation days plus 24th and 31st of December per our collective agreement
- 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 a 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](#)

This position is reserved for candidates who meet the requirements and have the legal status of disabled persons with a degree of disability equal to or greater than 33%. In case there are no applicants with disabilities that meet the requirements, the rest of the candidates without declared disability will be evaluated.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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