

JOB DESCRIPTION

Ref:

Job Title: Bioinformatics Data Analyst (RE2/3) - Spanish National Bioinformatics Institute (INB)

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 almost 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 of the role

[RD-Connect](#) is a unique global infrastructure project that links up databases, registries, biobanks and clinical bioinformatics data used in rare disease research into a central resource for researchers worldwide. In a six-year project funded by the European Union but uniting researchers across the world, it will develop an integrated research platform in which complete clinical profiles are combined with -omics data and sample availability for rare disease research, in particular research funded under the International Rare Diseases Research Consortium (IRDiRC).

In close connection with RD-Connect, [ELIXIR](#) (European Life Science Infrastructure for Biological Information) is a pan-european organization founded in 2014, which aims to integrate and harmonize European bioinformatics infrastructures. ELIXIR coordinates the participation of more than 20 countries, engages with other strategic european initiatives and projects e.g. ESFRI, Research Data Alliance, EUDat, EGI; promotes specific [training](#) activities and [workshops](#) on ELIXIR resources, partners with industry, and play a key role in shaping the bioinformatics landscape. Spain is member of ELIXIR since 2015, with the INB as the Spanish national node. Within ELIXIR, the INB is responsible for the bioinformatics infrastructure offered by Spain, and therefore, should guarantee its alignment to the strategic areas put forward by ELIXIR.

Responsibilities

- Contribute to deliverables and milestones at the RD-Connect especially at task 5.8, which is about contributing to development of the analysis pipeline
- Contribute to the deployment of existing RNA-Seq analysis pipeline into the CNAG private cluster
- Contribute to further analysis connecting DNA and RNA-Seq data from rare-disease cases
- Contribute to supervise other junior members at the INB unit
- Work together with other developers at the team and other ELIXIR nodes to ensure the appropriate implementation of previously agreed standards and methodologies

Requirements

- **Education**

MSc in Bioinformatics, Biostatistics, Biology or equivalent

- **Essential Knowledge and professional experience**

At least 1 year of professional experience with omics technologies including data interpretation.

At least 1 year of professional experience in the design, implementation and deployment of relational databases (MySQL, PostgreSQL or similar) and/or non-relational databases (Cassandra, ElasticSearch, MongoDB)

At least 1 years of professional experience with programming languages such as C++, Python and/or Java

- **Other knowledge**

Familiar with software containers technologies such as Dockers and/or Singularity
Experience with Unix operating systems, including shell scripts
In-depth understanding of genetics and biology

Competences

In order to be successful in this role the candidate should have:

- Fluency in English
- Good writing and presentation skills
- Used to work under pressure under strict deadlines
- Strong personal soft-skills sets: Communicative, enthusiastic, highly collaborative, proactive, self-driven
- Strong technical writing skills
- Experience on developing project technical specifications
- Large experience working with Unix/Linux systems

Conditions

- A competitive salary will be provided, matched to the cost of living in Barcelona, depending on the value of the candidate
- 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 and a private health insurance
- A competitive salary will be provided, matched to the cost of living in Barcelona, depending on the value of the candidate

Applications Procedure

All applications must be done through the BSC website:

<https://www.bsc.es/join-us/vacancies/vacancies-list/115lsinbbioinfda>

Including:

1. Motivation letter and a statement of interest, including two recommendation letters or contacts.
2. 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.