

BIOMEDICAL SCIENCE FOR THE BENEFIT OF SOCIETY

"Senior Bioinformatics Developer"

Centre for Genomic Regulation (CRG)

The Institute

The Centre for Genomic Regulation (CRG) is an international biomedical research institute of excellence, based in Barcelona, Spain, with more than 400 scientists from 44 countries. The CRG is composed by an interdisciplinary, motivated and creative scientific team which is supported both by a flexible and efficient administration and by high-end and innovative technologies.

In September 2026, the CRG received the renewal of the 'HR Excellence in Research' Award from the European Commission. This is a recognition of the Institute's commitment to developing an HR Strategy for Researchers, designed to bring the practices and procedures in line with the principles of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers (Charter and Code).

Please, check out our Recruitment Policy

The role

The Bioinformatics Unit is seeking a Senior Bioinformatics Developer (Multiomics & AI-Ready Data) to expand institutional capabilities in advanced genomics, multiomics and multimodal data analysis, and contribute to the development of an AI-ready Core Technologies Data & Analysis Platform, a key component of the CRG's Severo Ochoa Strategy for 2026–2030. The position will be based in the Bioinformatics Unit, under the supervision of its Head.

The position offers an opportunity to analyze and integrate data generated using emerging biotechnologies, including single-cell and spatial omics, develop innovative computational solutions and reproducible analytical workflows, and advance institute-wide integration of scientific data according to FAIR principles.

Working closely with bioinformaticians, experimental scientists, other Core Technology Units and Scientific IT, the successful candidate will help establish interoperable computational capabilities connecting experimental data generation with automated processing and multimodal analysis, laying the foundations for the responsible application of generative AI to biological research.

The position will also contribute to broader institutional and strategic projects aligned with the CRG's Severo Ochoa Strategy.

About the Bioinformatics unit

The Bioinformatics Unit supports CRG and external researchers with experimental design, high-throughput sequencing data analysis, software/pipelines and database development, and other scalable bioinformatics solutions that enable reproducible and FAIR research, supported by training and dissemination of best practices.

Whom would we like to hire?

Professional experience

Must have

- Demonstrated experience in bioinformatics data analysis and scientific software development

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- Strong programming skills and solid understanding of algorithms, data structures and scientific computing
- Understanding of biological data, experimental technologies and their computational challenges
- Experience developing reproducible computational workflows in Linux environments, applying good software engineering practices
- Experience analysing and integrating multiomics and multimodal data, from genomics (including long-read, single-cell and spatial) to other modalities such as proteomics, metabolomics or imaging
- Ability to investigate new technologies and translate scientific problems into computational solutions.

Nice to have

- Experience with Nextflow/nf-core, HPC and containerized workflows
- Experience developing scientific software packages or contributing to open-source projects
- Familiarity with FAIR data principles, scientific data interoperability and AI applications in biological research, including generative AI
- Experience teaching, developing training materials or mentoring other scientists

Education and training

- PhD or MSc in Bioinformatics, Computational Biology, Computer Science, or related field

Languages

- Proficiency in spoken and written English

Competences

- Strong analytical thinking, problem-solving skills and ability to make independent technical decisions
- Scientific curiosity, ability to learn new methods and manage competing priorities.
- Excellent communication and collaboration skills across scientific and technical disciplines
- Ability to explain complex computational concepts clearly and share knowledge with scientists through training and documentation
- Ability to manage multiple tasks and priorities and work independently

The Offer – Working Conditions

- **Contract duration:** Technical and scientific activities contract linked to the project duration (estimated duration until June 2030)
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales
- **Target start date:** As soon as possible

We provide a highly stimulating environment with state-of-the-art infrastructures, and unique professional career development opportunities. To check out our training and development portfolio, please visit our website in the training section.

We offer and **promote a diverse and inclusive environment** and welcomes applicants regardless of age, disability, gender, nationality, ethnicity, religion, sexual orientation or gender identity.

The **CRG is committed to reconcile a work and family life** of its employees and are offering extended vacation period and the possibility to benefit from flexible working hours.

Application Procedure

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All applications must include:

1. A motivation letter addressed to Dr Julia Ponomarenko, Head of the Bioinformatics Unit.
2. A complete CV including contact details.
3. Contact details of two referees.

All applications must be submitted online on the CRG Career site - http://www.crg.eu/en/content/careers/job-opportunities

Selection Process

- **Pre-selection**: The pre-selection process will be based on qualifications and expertise reflected on the candidates CV. It will be merit-based.
- **Interview**: Preselected candidates will be interviewed by the Hiring Manager of the position.
- **Offer Letter**: Once the successful candidate is identified the People department will send a Job Offer, specifying the start day, salary, working conditions, among other important details.

Deadline: Please submit your application by **December 18, 2026**.

Suggestions: The CRG believes in **ongoing improvement** and promotes a **culture of feedback**. This is one of the reasons we have in place, at your disposal as a candidate, a mechanism to gather your suggestions/complaints concerning your candidate experience in our recruitment processes. Your feedback really matters to us in our aim at creating a **positive candidate journey**. You can make a difference and help us improve by letting us know your suggestions through the following form.

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HR EXCELLENCE IN RESEARCH

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