

BIOMEDICAL SCIENCE FOR THE BENEFIT OF SOCIETY

"Junior Bioinformatician – Computational Protein Design and Software Infrastructure"
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 Centre for Genomic Regulation (CRG) has 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

We are looking for a highly motivated junior bioinformatician to support the computational protein design work of the Design of Biological Systems group (Dr. Luis Serrano) and its software infrastructure. This is a technical support role rather than a research training position: the bioinformatician will work on concrete group needs, in close collaboration with researchers, PhD students and experimental collaborators.

Main responsibilities:

- **Validation of a diffusion model for peptide generation:** run benchmarks, compare generated peptides using structural and energetic criteria (FoldX, AlphaFold3, Boltz) and report results to the team.
- **Automation of molecule parameterisation in FoldX:** develop and maintain scripts and pipelines that generate FoldX parameters for new small molecules and non-standard residues.
- **Software maintenance and distribution:** take charge of compiling, maintaining and version-controlling the group's development and distribution infrastructure, including FoldX (multiplatform builds, dependency updates, portable binaries and release support).

About the team

Our group aims to quantitatively understand biological systems and to rationally design and modify their behaviour. We develop software that spans biological databases to structural modelling at the atomic level, including the FoldX suite (foldxsuite.crg.es) and ModelX (modelx.crg.es). We combine these computational tools with experiments to validate our predictions.

Whom would we like to hire?
Professional experience

Must Have

- You have a basic understanding of protein structure and structural biology
- You have working knowledge of Python and of the Linux command line

Desirable but not required/ Nice to have

- C++ programming, or willingness to learn it on the job

C/ Dr. Aiguader, 88
08003 Barcelona
Tel. +34 93 316 01 00
Fax +34 93 316 00 99
www.crg.es



- Version control (Git) and build tools (CMake, Make, compilers on Linux and macOS)
- Experience with HPC clusters and job schedulers
- Experience with structural modelling tools (FoldX, AlphaFold, Boltz, Rosetta or similar)
- Experience running or evaluating machine-learning models
- SQL databases

Education and training

- You hold a bachelor's or master's degree in bioinformatics, Biotechnology, Biochemistry, Chemistry, Computer Science or a related field

Languages

- You are fluent in English, spoken and written

Technical skills

- You can write and maintain scripts that automate computational workflows

Competences

- Highly developed organisational skills
- Reliability and attention to detail
- Ability to document your work clearly
- Team player in an interdisciplinary environment

The Offer – Working Conditions

- **Contract duration:** Technical and scientific activities contract linked to the project (with an estimated duration of 1 year).
- **Estimated annual gross salary:** Salary is commensurate with qualifications and consistent with our pay scales.
- **Target start date:** January 2026.

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

All applications must include:

1. A motivation letter addressed to Dr Luis Serrano.
2. A complete CV including contact details.
3. Contact details of two referees.

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

Selection Process

C/ Dr. Aiguader, 88
08003 Barcelona
Tel. +34 93 316 01 00
Fax +34 93 316 00 99
www.crg.es



- **Pre-selection**: The pre-selection process will be based on qualifications and expertise reflected on the candidates CVS. It will be merit-based.

- **Interview**: Preselected candidates will be interviewed by the Hiring Manager of the position and a selection panel if required.

- **Offer Letter**: Once the successful candidate is identified the Human Resources department will send a Job Offer, specifying the start day, salary, working conditions, among other important details.

Deadline: Please submit your application by November 20, 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.

Funded by the European Union (ERC, SafeDelivery, Grant Agreement Nº 101266773)"

Funded by the European Union

European Research Council

HR EXCELLENCE IN RESEARCH

C/ Dr. Aiguader, 88
08003 Barcelona
Tel. +34 93 316 01 00
Fax +34 93 316 00 99
www.crg.es