

## JOB OPENING AT IRB BARCELONA

# Research Assistant/Bioinformatician

## Job Opening ID: LAB/24/12

### Your Role & Our Team

IRB Barcelona is seeking a talented and motivated Bioinformatician to join the Biomedical Genomics Lab led by Dr. Núria López-Bigas at IRB Barcelona ([bbglab.irbbarcelona.org](http://bbglab.irbbarcelona.org)).

The position involves contributing to the development of innovative bioinformatics tools designed to analyze cancer patient mutations and identify driver genes and mutations. These tools, used widely in the research community, have significant implications for understanding cancer biology and advancing precision medicine. The successful candidate will improve and develop analysis pipelines and web front-end and back-end functionalities in close collaboration with researchers and software engineers.

The ideal candidate will bring:

- Proven experience in bioinformatic software development and/or front/back-end web development.
- Excellent analytical skills, creativity, and a team-oriented mindset.
- A proactive and enthusiastic approach to research challenges.

This position is cofinanced by the Research Project “Plan Nacional” (PID2021-126568OB-I00”), project financed by the Spanish Ministry of Science, Innovation and Universities, the Spanish Agency of Research and the European Union (MICIU/AEI /10.13039/501100011033/FEDER, UE).

### Key responsibilities

- The successful candidate will improve and develop analysis pipelines and web front-end and back-end functionalities. She/he will play a key role in the development, maintenance, and enhancement of cancer genomics tools created by the group. These include Cancer Genome Interpreter (<https://www.cancergenomeinterpreter.org/>), Intogen (<https://www.intogen.org/>), and BoostDM (<https://www.intogen.org/boostdm>). The responsibilities will encompass developing new analysis modules, improving the interpretation of diverse mutation types, and connecting these tools to various cancer genomics databases. Additionally, the candidate will work to implement functionalities that align the tools with clinical practice needs.
- Additional tasks include:
  - Providing bioinformatics support for research projects.
  - Preparing technical reports in collaboration with senior researchers.
  - Participating in interdisciplinary meetings.

### You have

- A Bachelor's degree in Bioinformatics, Computational Sciences, or similar.
- A Master's degree in Bioinformatics, Computational Sciences, or similar.
- Professional experience in a similar role or related field.
- Programming skills in Python.
- Fluency in English (spoken and written).

**IRB BARCELONA | Research. Discover. Cure.**

For more information please visit our website at: [www.irbbarcelona.org](http://www.irbbarcelona.org)



**IRB**<sup>R</sup>  
BARCELONA

**hr**  
HR EXCELLENCE IN RESEARCH



## You might also have

- Experience in Cancer Genomics and Precision Oncology.
- Experience in analysis of NGS data (WGS, WES, gene panels)
- Experience in pipeline development.
- Strong python software development skills and familiarity with good software development practices.
- Familiarity with front-end and/or back-end web development.
- Experience with databases and clinical data management.
- Familiarity with collaborative software development using Git and platforms like GitHub and Bitbucket.
- Experience with high-performance computing (parallel execution, computational pipelines, workload managers).
- Experience in the development and use of software containers (e.g., Docker, Singularity).
- Exposure to cloud computing environments.
- Excellent interpersonal and communication skills.
- Experience in international teams.
- Ability to work independently and within a collaborative research team, and ability to comply with tight deadlines.
- Willingness to learn if missing any of the above.

## What we offer:

**Good Working conditions:** Employed in compliance with Spanish legislation and regulations under a full-time contract. Employees receive the benefits of the Spanish Social Security system covering sickness, maternity/paternity leave and injuries at work.

**Competitive salary:** commensurate with experience and qualifications.

**International Environment:** we are home to nearly 500 researchers, technical and support staff from 45 countries.

**Multidisciplinary Research:** Research of excellence at the unique interface between biology, chemistry, and structural and computational biology.

**Training and Career:** Transversal and general training is offered to our community (examples include research seminars, conferences, training in time management, scientific integrity, gender equality, health and safety, languages courses and emotional wellbeing).

**Relocation & Visa Assistance:** Trained staff provides support on visa paperwork, administrative requirements, and practical information on living and working in Barcelona, etc.

**Social Life:** We like to have fun. We promote several activities, like a Football League, an annual skiing trip, a Mountaineering Club, a Running Club and "Cool-off sessions", where members meet informally for drinks, snacks and scientific discussions.

**Fairness:** Our recruitment is open, transparent and merit-based, and all applicants compete on the same terms. We are an Equal Opportunity Employer and all qualified applicants are considered for employment without regard to race, colour, religion, age, sex, sexual orientation, gender identity, nationality, ethnic origin or disability.

**IRB BARCELONA | Research. Discover. Cure.**

For more information please visit our website at: [www.irbbarcelona.org](http://www.irbbarcelona.org)

## How to Apply

Applications should include a **Full CV and Motivation letter** and should be submitted through our website <https://recruitment.irbbarcelona.org/> at the job opening with the Reference: **LAB/24/12**

- **Deadline for applications: Jan 10, 2025**  
The deadline can be extended.
- **Number of positions available: 1**

## Selection Process

- **Pre-selection:** Will be based on CV, motivation letter & experience.
- **Interviews:** Short-listed candidates will be interviewed.
- **Job offer:** Will be sent to the successful candidate after the interview.

## About us, the institute

Created in 2005 by the Generalitat de Catalunya (Government of Catalonia) and the University of Barcelona, IRB Barcelona is a Severo Ochoa Centre of Excellence—a seal that was awarded in 2011.

The institute is devoted to conducting research of excellence in biomedicine and to transferring results to clinical practice, thus improving people's quality of life, while simultaneously promoting the training of outstanding researchers, technology transfer, and public communication of science. Its 29 laboratories and seven core facilities address basic questions in biology and are orientated to diseases such as cancer, metastasis, Alzheimer's, diabetes, and rare conditions.

IRB Barcelona is an international centre that hosts 500 members and 45 nationalities. It is located in the Barcelona Science Park. IRB Barcelona forms part of the Barcelona Institute of Science and Technology (BIST) and the "Xarxa de Centres de Recerca de Catalunya" (CERCA).



---

IRB BARCELONA endorses the Requirements and Principles of the European Charter for Researchers, the Code of Conduct for the Recruitment of Researchers, and Open, Transparent, Merit-based recruitment promoted by the European Commission and follows Equal Opportunities policies.

On 9 December, 2014, IRB Barcelona was awarded the "HR Excellence in Research" logo. This recognition reflects the commitment of the Institute to the continuous improvement of its human resources policies in line with the Charter & Code. The Institute works to ensure fair and transparent recruitment and appraisal procedures.

Please check our [Recruitment Policy](#).

**IRB BARCELONA | Research. Discover. Cure.**

For more information please visit our website at: [www.irbbarcelona.org](http://www.irbbarcelona.org)



**IRB**<sup>R</sup>  
BARCELONA

**hr**  
HR EXCELLENCE IN RESEARCH



*Note: The strengths and weaknesses of the applications will be provided upon request.*

**IRB BARCELONA | Research. Discover. Cure.**

For more information please visit our website at: [www.irbbarcelona.org](http://www.irbbarcelona.org)