

## PhD student in biochemistry

### Job Summary

Did you enjoy playing Lego as a child? Will you take a challenge to rebuild highly dynamic molecular interactions to understand how bacteria grow and divide? If yes, consider joining the Bottom-up Cell Biology Lab at CIC biomaGUNE for a PhD project in biochemistry/bacterial cell biology and bioengineering (microfluidics). In this project, you will rebuild in vitro peptidoglycan synthesis machinery to explore the mechanisms of peptidoglycan synthesis and search for novel efficient inhibitors.

Our group has strong expertise in bottom-up reconstitution in the field of bacterial cell biology ([Baranova et al 2020](#) and [Hernandez-Rocamora and Baranova et al 2021](#)). We employ approaches covering advanced protein biochemistry and reconstitution of transmembrane proteins on polymer-supported lipid membranes. To access molecular interactions, we use a range of surface-sensitive biophysical techniques, as well as single-molecule tracking microscopy.

We are young and newly established group looking for excellent, highly motivated, and scientifically curious members. We are also highly committed to ensuring that every team member receives individual support and training and enjoys their time in the lab.

### Education Level:

The ideal candidate has a Master's Degree **in molecular biology, biochemistry/biophysics or microbiology** with an interest in quantitative research.

### Skills:

- Previous experience in protein purification or microfluidics
- Enthusiasm about interdisciplinary research and willingness to learn about new research fields
- Committed to research excellence
- Ability to solve problems creatively and carefully
- Ability to conduct independent research, as well as to work effectively as a member of a research team
- Good command of English (working language)
- Good verbal, written, communication, interpersonal, and organizational skills

### Duration:

- Full time contract with a duration of 3 years (Initial contract of 12 months renewable annually up to 36 months).

**Envisaged Job Starting Date:** July 2024

**Application Deadline:** 2024-06-10

**Project Funding:**

- - RYC2022-038104-I - (Spanish Research Agency - AEI)

**How to apply:** [Check the full details at webpage](#)

**Informal Inquiries:** Informal requests for additional information can be sent to *Natalia Baranova* at [nbaranova@cicbiomagune.es](mailto:nbaranova@cicbiomagune.es) or at .

Applications sent directly to the emails listed above **will be NOT be accepted**

**Equal opportunities Policy:** CIC biomaGUNE is proud to be an equal opportunity employer and applicants will receive consideration for employment without regard to: age, color, disability, gender, national origin, race, religion, sexual orientation, gender identity, or any other classification protected by European, national, or local law.

Open Transparent and Merit Based Recruitment Policy:

[You can check here CIC biomaGUNE OTM-R Policy](#)

## **About CIC biomaGUNE**

CIC biomaGUNE, located in the Science and Technology Park of Gipuzkoa (Donostia-San Sebastián), is a leading research center in the area of bionanomaterials, molecular imaging and regenerative medicine and counts with more than 160 people from 24 countries. The activity of CIC biomaGUNE is conducted by a team of 11 international and dynamic research groups, supported by flexible and efficient management teams and a unique research infrastructure including the Molecular Imaging Facility, one of the biggest preclinical imaging research infrastructures in Europe.

CIC biomaGUNE maintains a vibrant weekly scientific seminar program by visiting leading scientists. Additional training in soft skills and technologies covered by the CIC biomaGUNE technical platforms is offered to researchers within the in-house training program.

CIC biomaGUNE is committed 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 the Human Resources Strategy for Researchers - [HRS4R at CIC biomaGUNE](#).