

## **PhD in fluorescence correlation spectroscopy/SAXS to study molecular complexes of polyelectrolytes and biomolecules**

### **Job Summary**

A PhD Fellowship is offered to work in the group of Dr. Sergio E. Moya (Soft Matter Nanotechnology at CIC biomaGUNE). The thesis will focus on the use of fluorescence correlation spectroscopy, Small Angle X ray Spectroscopy and Circular Dichroism to study the formation of molecular complexes between polymers and biomolecules

The PhD student will apply Fluorescence Correlation Spectroscopy (FCS) as main technique to study complexation phenomena between polyelectrolytes and biomolecules , small and large, aiming at different applications in drug delivery. The PhD will perform physico chemical studies to understand the organization of the molecules in the complexes. Complementary to FCS the student will carry out Circular Dichroism and SAXS/SANS measurements.

### **Education Level:**

A master degree in Physics, Chemistry or Material Science

### **Skills:**

- Experience in fluorescence techniques, biophysics or polymer physics.
- Excellent written and oral communication skills in English.
- Strong motivation for doing research in a multidisciplinary and international team

### **Duration:**

Full Time Predoctoral Contract ( 12 months annually renewed until 36 months).

**Envisaged Job Starting Date:** april 2024

**Application Deadline:** 2024-03-31

**Project Funding:**

- GENNANOPOL - PID2020-114356RB-I00 - (Agencia Estatal de Investigación - AEI)
- POTENTIAL - 101092901 - (European Commission - Horizon Europe)

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

**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](#).