PhD Position in Nanotechnology and Biomedicine.

Job Summary

A PhD position is available as a collaborative project between the groups Aitziber L. Cortajarena (Biomolecular Nanotechnology Lab at CIC biomaGUNE) and Lorea Blázquez (RNA-processing and therapeutics Lab at Biodonostia). This project will be focused on the development of RNA-editing tools through engineering of biomolecule-nanomaterial hybrids for therapeutic approaches. This collaborative project aims to design and generate hybrid multifunctional modules based on Cas13 proteins or repeat protein scalffolds from natural RNA binding domains fused to an engineered modules in order to coordinate gold nanoclusters.

For this purpose, new approaches will be developed based on the combination of the experience of the two groups involved: the expertise of Prof. Cortajarena in protein engineering for the generation of protein-based functional hybrids, in particular protein-nanoclusters hybrids; and the expertise of Dr. Blázquez in RNA-processing and neurological diseases. The project is highly multidisciplinary and combines research involving biochemistry, protein chemistry, molecular and cell biology and in vitro and in vivo disease models.

The project will be carried out at the CIC biomaGUNE and Biodonostia, two vibrant multidisciplinary and international research institutes in San Sebastian, Spain. Both institutes have established a state of the art research programs at the interface between the chemical, biological and medical sciences. They offer excellent working conditions and is well equipped with instrumentation and facilities

Education Level:

Candidates should have a Master degree in Biochemistry, Molecular Biology, Biomedicine or a related discipline. Candidates that are in the process of their Master thesis defense in the next 3 months will also be considered.

Skills:

Previous experience in protein chemistry, protein engineering, nanobiotechnology and/or molecular biology would be highly valuable but not mandatory would be highly valuable but not mandatory. The candidate is expected to work in a multidisciplinary and an international environment. Good interpersonal skills as well as written and oral communication skills in English are required.

Duration:

Predoctoral contract with a duration of 3 years. The candidate will be contracted by CIC biomaGUNE for the first 18 months, and by Biodonostia for the last 18 months

Envisaged Job Starting Date: September 2022

Application Deadline: 2022-08-15

Project Funding:

- N/A - N/A - (CIC biomaGUNE)

How to apply: Check the full details at webpage

Informal Inquiries: Informal requests for additional information can be sent to *Aitziber López Cortajarena* at *alcortajarena@cicbiomagune.es*.

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.