

## PhD position at Carbon Nanobiotechnology Lab

### Job Summary

Applications are invited for a multidisciplinary pre-doctoral position in the Carbon Nanobiotechnology lab at CIC biomaGUNE to develop platforms based on Carbon Nanotubes (CNTs) for neuronal signalling, reconnection and regeneration.

The applicant will be involved in the chemical synthesis, characterization, and manufacturing of the CNT-based substrates, and in the biological validation and evaluation both *in vitro* and *in vivo*. The research project will be aimed at deepening the comprehension of the neurological and neurodegenerative diseases and seek for innovative technologies to speed up the drug discovery and therapeutic process. Therefore, the candidate will interact with experts in different disciplines, spanning from synthetic chemistry to cell biology, from photochemistry to medical imaging, and with the opportunity to employ a wide range of characterization and purification methods (i.e. optical spectroscopy, AFM, TEM, XPS, SEM, HPLC, gel electrophoresis, etc) and biology procedures (i.e. cell biology studies, confocal microscopy, medical imaging by MRI and/or PET/SPECT). The project will be developed in collaboration with lead scientist in the field of nanotechnology and neuroscience. Mobility to other institutions and countries will be highly encouraged.

Non-resident applicants must have the necessary paperwork to perform a PhD in Spain by the deadline of the application (VISA and passport).

### Education Level:

- MS in Biomedical Engineering, Chemistry, Polymer Science, Biotechnology, Biochemistry or related disciplines.

### Skills:

- Research experience
- Good theoretical background and previous practical experience in molecular biology or nanotechnology.
- Experience with Carbon nanomaterials is preferred.
- Experience in *in vitro* cultures and animal experience is highly valuable.
- Proficiency in English, spoken and written.

### Duration:

Pre-doctoral, 3-year contract (Initial contract of 12 months renewable annually up to 36 months).

**Envisaged Job Starting Date:** October - November 2023

**Application Deadline:** 2023-09-22

**Project Funding:**

- NEUROGEL - PID2022-140419OB-I00 - (Agencia Estatal de Investigación - AEI)

**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](#).