

Early stage researcher (ESR)

Job Summary

Early Stage Researcher position for a period of 6 months is offered in the Radiochemistry and Nuclear Imaging Group led by Dr. Jordi Llop, to conduct research activities related to the preparation, characterisation, radiolabelling and *in vivo* evaluation of nanoparticles.

Nanomedicine is an interdisciplinary branch of medicine that uses tools and knowledge of nanoparticles (materials of 100nm or less in diameter) for applications in healthcare. In particular, nanoparticles offer new solutions in the therapeutics and diagnostics for drug delivery and enhanced imaging, necessary to detect and treat chronic diseases like cancer. Despite numerous exciting research findings the area of nanomedicine suffers from several drawbacks, and the translation from laboratory to clinical products is significantly lower than the expected pace. Molecular imaging techniques, and particularly Positron Emission Tomography (PET), could be helpful in bridging the gap between basic development and clinical application, as they offer unique opportunities for the *in vivo* and non-invasive investigation of pharmacokinetics and biological fate of nanomaterials.

Job purpose:

The ESR position is available in the research group of Dr. Jordi Llop for a duration of 6 months. Further financial support beyond the established duration of the contract will be pursued but is not guaranteed. The project seeks to find a highly motivated researcher to carry out a study focused on the preparation and characterization of gold nanoparticles, functionalized with negatively charged glycans to prevent (or minimize) the formation of the protein corona. Radiolabelling strategies for the incorporation of positron emitters into the NPs will be developed, and the resulting nanosystems will be investigated *in vivo* in a rat model of brain ischemia. The research project is highly multidisciplinary and the candidate will develop knowledge in nanotechnology, radiochemistry, molecular imaging and animal experimentation.

Education Level:

Master Degree in Chemistry or related area

Skills:

For candidates where English is not their first language: a high standard of written and spoken English is required.

Previous experience in radiochemistry, in vivo imaging or animal experimentation will be highly valued.

Capacity of applying a multidisciplinary approach in research and thinking.

Marie Curie eligibility rules requires ESRs to have at most four years of research experience. To satisfy Marie Curie mobility criteria, you must not have resided or carried out your main activity (work, studies, etc.) in Spain for more than 12 months in the 3 years prior to the start date (short stays such as holidays and/or compulsory national service are not taken into account).

Duration:

Full time contract, 6 months.

Application Deadline: 2022-02-15

Project Funding:

- NanoCarb - 814236 - (European Commission - H2020)

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

Informal Inquiries: Informal requests for additional information can be sent to *Jordi Llop* at jllop@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](#).