

Company Description

NanoGUNE is a research center devoted to conducting world-class nanoscience research for a competitive growth of the Basque Country. NanoGUNE is a member of the Basque Research and Technology Alliance (BRTA) and is recognized by the Spanish Research Agency as a María de Maeztu Unit of Excellence. The position is offered in the Nanobiosystems Group, led by Medina Sánchez, Mariana (m.medina@nanogune.eu). The candidate will join a research line focusing on Medical Microrobotics. More information can be found at <https://www.nanogune.eu/nano>

Information

 Deadline: 2025-07-31
 Category: Business
 Province: Gipuzkoa

 Country: Basque Country
 City: Donostia

Company

CIC nanoGUNE



Main functions, requisites & benefits

Main functions

The Nanobiosystems Group at CIC nanoGUNE is looking for a highly motivated postdoctoral researcher to contribute to cutting-edge research in medical microrobotics, with a focus on cell-based therapies for lung cancer treatment. Our interdisciplinary project combines micro/nanofabrication, biomedical engineering, and pre-clinical research, spanning both in vitro and in vivo models. The successful candidate will be part of a dynamic team advancing the frontiers of targeted cancer therapies using smart, biologically integrated microrobotic systems. Key Responsibilities: Design and fabrication of micro- and nanocarriers for the transport of biomolecules and single cells in biologically relevant environments; development of microfluidic platforms that mimic in vivo conditions to optimize carrier performance; implementation and testing of microrobotic systems in small animal models; support on the supervision of PhD students and proposal writing.

Requisites

A university degree in biomedical engineering, biotechnology, or electronic/mechanical engineering, and a PhD in natural sciences or a related discipline. Proven experience in medical microrobotics, particularly in the context of targeted cancer therapy. Hands-on expertise in clean-room technologies such as soft lithography, two-photon lithography, and microfluidics. Excellent written and spoken English communication skills. A proactive, enthusiastic attitude and genuine interest in translational biomedical research. Experience in vivo models and possession of a valid mouse handling certificate are highly advantageous.

Benefits

We offer a vibrant, multidisciplinary and international research environment at one of Europe's leading nanoscience institutes, located in the beautiful city of San Sebastian, in Spain. We also offer access to state-of-the-art facilities and infrastructure and the opportunity to contribute to high-impact research with clinical relevance and collaborative opportunities with academic, clinical, and industrial partners. The position is expected to start in 01/09/2025 and for a total length of up to 24 months in the Nanobiosystems Group.