The Nanoscience Cooperative Research Center, CIC nanoGUNE, located in Donostia / San Sebastian, Basque Country (Spain), is currently looking for a

POST-DOCTORAL RESEARCHER

to work on

Cell-based microrobotic therapies for lung cancer treatment

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 **Mariana Medina Sánchez** (m.medina@nanogune.eu) and the candidate will join a research line focusing on Medical Microrobotics. More information can be found at https://www.nanogune.eu/nanombiosystems

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

Candidate Profile:

• 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

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 **01/07/2025** and for a total length of up to 24 months (01/07/2025 - 31/06/2027) in the Nanobiosystems Group.

We promote teamwork in a diverse and inclusive environment and welcome all kinds of applicants regardless of age, disability, gender, nationality, race, religion, or sexual orientation.

Candidates should **apply** by completing the **form below** and attaching the following documents:

• A complete CV

• A cover letter and at least two reference letters grouped in a single PDF file

The **deadline** for applications is **22/06/2025**.

NOTES:
(i) All applicants will receive an answer after the end of the selection process; but please note that due to the large number of submissions that are expected, we cannot provide individual feedback.
(ii) Additional information about nanoGUNE's commitment towards HR excellence in Research and Gender Equality are available on our website.
(iii) We encourage you to subscribe to our HR mailing list to receive information related to nanoGUNE's open positions and open calls for different training and talent attraction programs.