

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 **Medina Sánchez, Mariana** ([m.medina@nanogune.eu](mailto: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/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

### **What 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 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 **02/06/2025** and for a total length of up to 23 months (02/06/2025 - 31/05/2027) in the Nanobiosystems Group.

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

- a. A complete CV
- b. A cover letter and at least two reference letters grouped in a single PDF file

The **deadline** for applications is **30/04/2025**.

### **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.*