

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
Magnetically-driven micro-nanotools for healthcare applications

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). The Nanobiosystems group is focused on nanobiomedical engineering; more information can be found at <https://www.nanogune.eu/en/research/groups/nanomedicine>

We are actively searching for a highly motivated postdoctoral researcher to contribute to groundbreaking work in the field of medical microrobotics, specifically focusing on applications for targeted drug delivery in gynecological healthcare. The candidate will join a **research line** focusing on encompasses both in vitro and in vivo settings, providing a comprehensive exploration of innovative solutions in this critical domain.

Tasks to be carried out:

Fabrication of micro- and nanodevices able to navigate in biological-relevant media, development of in-vivo mimicking microfluidic devices to optimize their performance, implementing them in small animal models, supporting PhD students supervision and proposal writing..

The **successful candidate** will have a scientific university degree in biomedical engineering, biotechnology, or nanomedicine, accompanied by a doctorate in natural sciences or related disciplines. The ideal candidate should possess expertise in medical microrobotics, particularly in the context of gynecological healthcare. Proficiency in clean-room processes, including soft lithography, two-photon lithography, and microfluidics, is desirable. Excellent written and spoken English skills are essential, along with a proactive and enthusiastic approach to scientific endeavors. Candidates should also demonstrate a keen interest in biomedical applications and their translation to in vivo models.

Additionally, the candidate should demonstrate experience in the following skills:

- Animal handling
- Surface biofunctionalization
- Micro- and nanofabrication

- Magnetic microrobotics
- Python programming

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.

The position is expected to start in 01/07/2025 and for a total length of up to 12 months (01/07/2025 - 30/06/2026) 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 **19/10/2024**.

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.