

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

## MASTER STUDENT

to work on

### Combinatorial Vapor Deposition for Advanced Thin-Film Biosensors

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.

This **project** focuses on the design and fabrication of a highly sensitive and versatile thin-film biosensor platform. We will employ combinatorial vapor deposition to create a surface functionalized with a library of molecular stacks, each tailored to bind specific target biomolecules. The incorporation of optically active inorganic clusters and quantum dots will provide a robust and multiplexed detection mechanism. This research will explore the fundamental principles of thin film sensing and demonstrate the potential of this technology for biomolecular analysis. Expected outcomes include optimized deposition protocols, characterization of sensor performance, and proof-of-concept demonstrations of multi-analyte detection.

The student will join the **Nanomaterials Group**, led by **Prof. Mato Knez** ([m.knez@nanogune.eu](mailto:m.knez@nanogune.eu)). More information can be found at: <https://www.nanogune.eu/en/research/groups/nanomaterials>

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

- a. A complete CV
- b. A cover letter

The **deadline** for applications is **13/03/2025**.

#### 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.

