

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

### NONLINEAR OPTICAL PROPERTIES OF MAGNETIC 2D VAN DER WAALS AND TOPOLOGICAL MATERIALS FOR NEXT-GENERATION QUANTUM TECHNOLOGIES

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 aim of the research **project** is to explore charge and spin phototransport phenomena in two classes of materials: magnetic 2D van der Waals systems and 2D materials with topologically non-trivial phases, and to explore whether the coexistence of magnetic order and non-trivial topology in certain materials can lead to synergistic effects, such as enhanced photocurrent generation or novel spin-charge separation mechanisms. The student will be supervised by **Daniel Hernangomez** ([d.hernangomez@nanogune.eu](mailto:d.hernangomez@nanogune.eu)).

The position is offered in the **Theory Group**, led by **Emilio Artacho** ([e.artacho@nanogune.eu](mailto:e.artacho@nanogune.eu)). More information can be found at <https://www.nanogune.eu/en/research>.

The position is expected to start in **01/09/2025** and for a total length of up to **10 months** (01/09/2025 - 30/06/2026).

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

- a. A complete CV
- b. Academic Record and Cover Letter 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.