

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

Multi-responsive spintronic devices based on van der Waals interfaces (MULTISPIN)

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 Nanodevices Group, led by Casanova Fernández, Felix / Hueso Arroyo, Luis (l.hueso@nanogune.eu / f.casanova@nanogune.eu). The group counts with extensive research facilities for fabrication and characterization of devices and several active research lines spanning from nanofabrication to 2D electronics and spin transport.

The candidate will join a **research line** focusing on different research themes: Spintronics, Multifunctional devices and Advanced nanofabrication. We are mostly interested in the electronic properties of systems in reduced dimensions. More information can be found at <https://www.nanogune.eu/nanodevices>.

The aim of the **project** is the realization of proof-of-concept devices based on van der Waals interfaces for spintronics. The tasks to be performed will include the fabrication of multi-functional devices based on 2D magnetic materials combined with other layered compounds or organic molecules, and the characterization of their electrical response to light and magnetic field..

The successful **candidate** will have a PhD in Physics, Materials Science or a similar field and experience in the following skills:

- Handling of 2D Materials, fabrication of van der Waals heterostructures
- Nanofabrication (e-beam lithography, materials growth and characterization, etching)
- Electrical transport measurements
- Molecular functionalization
- Previous knowledge in molecular electronics and/or spintronics.
- Proficiency in spoken and written English.

The following points will also be considered:

- Previous track record in publications at the highest level.
- Self-motivated and a team player willing to coordinate the research efforts in 2D material-based devices

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 01/03/2022 and for a total length of up to 36 months (01/03/2022 - 28/02/2025) in the Nanodevices Group. The contract will be funded by the .

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 **19/12/2021**.

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.