

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

**Pre Doctoral Researcher**  
to work on  
**Van der Waals Heterostructures for Spintronics**

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](mailto:l.hueso@nanogune.eu) / [f.casanova@nanogune.eu](mailto: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 **project** will involve the nanofabrication of devices (thin film deposition, electron-beam lithography, etching), together with their magnetotransport measurements (including harmonic Hall measurements)..

The successful **candidate** will have a

- Master's degree in physics or a similar field
- Proficiency in spoken and written English

Although not compulsory, the following points will be considered:

- Experience in nanofabrication techniques (thin film deposition, electron-beam lithography, etching)
- Experience in magnetotransport measurements (including harmonic Hall measurements)
- Previous knowledge of spintronics and spin-orbit torques

**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 01/11/2022 and for a total length of up to 36 months (01/11/2022 - 31/10/2025) in the Nanodevices Group. The contract will be funded by the European Union.

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 **31/08/2022**.



**Funded by**  
**the European Union**

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.*