

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

### Information Technology based on Hybrid Organic Interfaces

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 **project** will include the design of patterned molecular nanostructures on magnetic surfaces (including thin-film deposition, ultraviolet and e-beam lithography, etching), the study of the propagation of spin information in these nanostructures (by using electrical transport experiments) and the realisation of proof-of-concept hybrid magnetic circuitries..

The successful **candidate** will have a PhD in Physics or a similar subject and experience in the following skills:

- Nanofabrication (e-beam lithography, materials growth and characterization, etching)
- Electrical transport measurements

- Previous knowledge in molecular electronics and/or spintronics.
- Proficiency in spoken and written English.

Although not compulsory, the following points will be considered:

- Previous track record in publications at the highest level.
- Self-motivated and a team player willing to coordinate the research in a particular topic.

**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 02/12/2021 and for a total length of up to 24 months (02/12/2021 - 01/12/2023) in the Nanodevices Group. The contract will be funded by the European Union's Horizon 2020 research and innovation programme.

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

1. A complete CV

The **deadline** for applications is **01/07/2021**.

*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.*

