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

Transport Properties in 2D Heterostructures

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 Nanodevices group, co-led by Prof. Luis E. Hueso and Prof. Fèlix Casanova, is currently composed of 27 members including senior and junior researchers. 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. More information can be found at https://www.nanogune.eu/en/research/groups/nanodevices

The candidate will work alongside an international consortium on the FantastiCOF project (Fabricating and Implementing Exotic Materials from Covalent Organic Frameworks).

The **research** will include fabrication, nanostructuring and electrical transport measurements of van der Waals heterostructures, including twisted bilayers.

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

- Exfoliation and characterization of 2D materials.
- Nanofabrication (e-beam lithography, materials growth and characterization, etching).
- Low Temperature magnetotransport measurement.
- 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 offer an international and competitive environment, state-of-the-art equipment, and the possibility to perform research at the highest level.

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 on September 1, 2022 and go on for up to 3 years in the Nanodevices group. The contract will be funded by the European Union's *Horizon Europe* research and innovation programme.

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

- https://www.nanogune.eu/en/nanogune/join-us/open-position/308-post-doctoral-researcher-transport-properties-2d-heterostructures
- A complete CV, including the name and contact details of at least three possible reviewers

- A cover letter

The **deadline** for application is **June 30, 2022**.

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.