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

Tailoring 2D Materials through molecular treatments

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, under the supervision of Prof. Luis Hueso and Dr. Marco Gobbi. The group has extensive research facilities for fabrication and characterization of devices and several active research lines including nanofabrication, 2D materials and spin transport.

The candidate will join a **research line** focusing on the engineering of the physical properties of 2D Materials through molecular treatments (including intercalation and surface functionalization). The research will include the (electro)chemical intercalation of van der Waals materials and the characterization of the so-obtained compounds via X-Ray diffraction, electrical transport, Raman spectroscopy and magnetometry. Devices based on the chemically tailored materials will be fabricated and characterized. The final goal of the project is to integrate 2D Materials with tailored electronic and magnetic properties into functional spintronic and opto-electronic nanodevices.

The successful **candidate** will have a master's degree in Materials Science or in a similar field and meet the following requirements:

- Proficiency in spoken and written English
- Self-motivated and a team player willing to coordinate the research in a particular topic.

Although not compulsory, the following points will be considered:

- Previous knowledge in 2D Materials, electrochemistry or magnetism.

- Electrical transport measurements

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 Regional Development Fund (FEDER).

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

1. A complete CV, including two references
2. A cover letter

The **deadline** for applications is **30/09/2022**.

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 listto receive information related to nanoGUNE's open positions and open calls for different training and talent attraction programs.