PREDOCTORAL RESEARCHER ON 2D/MOLECULAR DEVICES

Company Description

NanoGUNE is a Research Center set up with the mission to conduct excellence research in Nanoscience and Nanotechnology with the aim of increasing the Basque Country's Business Competitiveness and Economic Development. NanoGUNE is a member of the Basque Research and Technology Alliance (BRTA) and is also recognised by the Spanish Research Agency as a "María de Maeztu" Unit of Excellence 2017-2021.

Information

- Deadline: 2020-07-31
- Category: Academia
- Province: Gipuzkoa
- Country: Basque Country
- City: Donostia - San Sebastián

Company

CIC nanoGUNE

Main functions, requisites & benefits

Main functions

The CIC nanoGUNE Nanoscience Cooperative Research Center, is located in Donostia-San Sebastian, Basque Country. It is currently looking for a PREDOCTORAL RESEARCHER to work on 2D/Molecular Devices. The new position is offered within the Nanodevices group, led by Prof. Luis E. Hueso and Prof. Fèlix Casanova, currently composed of 20 members including senior and junior researchers. The group counts with extensive research facilities for fabrication and characterization of devices. Our group is interested in electronic properties in reduced dimensions, with several active research lines spanning from nanofabrication to 2D and molecular electronics, with a special emphasis on spintronics. In this particular project, the research will be focused on the fabrication and electronic properties with 2D/molecular hybrid materials. As an example related to this specific position here advertised, a selection of recent work published in the last years can be found in the following articles: Advanced Materials 32, 1906908 (2020); Nano Letters 19, 8758 (2019); Journal of Materials Chemistry C 7, 10389 (2019); Nature Communications 10, 2089 (2019); Nano Letters 19, 1074 (2019); Advanced Functional Materials 28, 1702099 (2018); Chemical Science 9, 199 (2018); Nature Communications 8, 2198 (2017); Nature Communications 8, 661 (2017); Science 357, 677 (2017); Nanoscale 9, 10178 (2017); Advanced Materials 19, 1606901 (2017); Nature Materials 16, 507 (2017); Nature Communications 7, 13751 (2016); Advanced Materials 28, 2609 (2016).

Requisites

The successful candidate will have a Master degree in Physics, Materials Science or equivalent discipline. Experience in experimental techniques such as lithography, characterisation of materials, and electrical measurements will be positively evaluated.

Benefits

We offer an international and competitive environment, state-of-the-art equipment, and the possibility of performing research at the highest level. We promote teamwork in a diverse and inclusive environment and welcome applicants regardless of age, disability, gender, nationality, race, religion or sexual orientation. The position is expected to start on September 1, 2020 and for a total length of up to 4 years for developing a PhD degree in the Nanodevices group. The contract will be financed by “María de Maeztu” funds.