

Company Description

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.

Information

 **Deadline:** 2022-12-19
 **Category:** Academia
 **Province:** Gipuzkoa

 **Country:** Basque Country
 **City:** Donostia / San Sebastián

Company

CIC nanoGUNE



Main functions, requisites & benefits

Main functions

The research project encompasses the study of the magnetotransport properties (magnetization, magnetoresistance and Hall effect) of novel flat band systems and 2D topological (Dirac and Weyl semimetals) materials under hydrostatic pressure. The candidate will be part of a multidisciplinary team involving experimentalists at NanoGUNE and the Donostia International Physics Center (DIPC) and theoreticians at the University of Santiago de Compostela and will acquire a broad knowledge in solid state physics and advanced nanofabrication of devices (thin film deposition, electron-beam lithography, etching).

Requisites

The successful candidate will have a master's degree in Physics 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 Previous experience in magnetotransport measurements Previous experience in nanofabrication Candidates should apply by completing the form below and attaching the following documents: A complete CV, including two references A cover letter * Application form: <https://www.nanogune.eu/en/nanogune/join-us/open-position/323-pre-doctoral-researcher-flat-bands-correlated-physics-topological-materials> The deadline for applications is 19/12/2022.

Benefits

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 01/02/2023 for a total length of up to 36 months (01/02/2023 - 31/01/2026).