

The Nanoscience Cooperative Research Center, CIC nanoGUNE, located in Donostia / San Sebastian, Basque Country (Spain), is currently looking for a

## EXPERIENCED ELECTRON MICROSCOPY SPECIALIST

to cover

### External service requests

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*.

**Electron microscopy laboratory** is urgently seeking an experienced electron microscopy specialist to address the growing demand for Electron Microscopy services from external customers. The Electron-Microscopy Laboratory, led by Chuvilin, Andrey ([a.chuvilin@nanogune.eu](mailto:a.chuvilin@nanogune.eu)), is established with the aim of providing a high-end electron microscopy support for nanoGUNE's multidisciplinary research team. More information can be found at <https://www.nanogune.eu/electron-microscopy>.

We are looking for a **candidate** with PhD in chemistry, physics or engineering strongly biased for performing studies in diverse application fields by a complete variety of electron microscopy techniques existing at Electron Microscopy Lab at nanoGUNE. Substantial part of the workload will be devoted to advanced sample preparation as well as nanofabrication using FIB and related techniques. Preferable applicant will have at least 10 year experience related to electron microscopy, material synthesis and materials characterization, profound knowledge of specialized software for electron microscopy image acquisition and data processing. Successful candidate will be responsible for a complete service chain starting from facility advertisement to sample preparation, experimental work, data analysis and reporting.

The successful candidate will possess:

- expertise in Scanning Electron and Focused Ion Beam Microscopy and related techniques (EDX, EBSD, environmental and wet SEM, in situ testing, nanofabrication by FIB, EBID and FEBID), FIB/SEM 3D imaging;
- proficiency in FIB samples preparation for TEM;
- proficiency in image analysis using TIA, Digital micrograph, ImageJ, etc.;
- experience in chemical analysis by secondary-ion mass spectrometry (SIMS);

- direct hands-on experience in nanostructure synthesis by chemical (ALD, VPI, MLD) and physical deposition techniques (magnetron sputtering, thermal evaporation);
- knowledge in complex structural and property characterisation of materials (XPS, FTIR, XRD, AFM, UV-VIS, Raman, TGA);
- basic programming skills in python or maple;
- the candidate should be able to communicate and work efficiently with collaborators both inside and outside nanoGUNE;
- English communication and writing skills.

Although not compulsory, the following points will be considered:

- experience with FEI Helios DualBeam, FEI Quanta FEG ESEM, Tescan Amber X;
- working experience in the cleanroom;
- experience in cryo-SEM and FIB;
- language skills in Spanish and/or Basque.

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.

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

- A complete CV
- A cover letter and at least two reference letters grouped in a single PDF file

The **deadline** for applications is **16/02/2023**.

*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.*