

ICN2 is a renowned research centre. Its research lines focus on the newly discovered physical and chemical properties that arise from the fascinating behaviour of matter at the nanoscale.

The Institute promotes collaboration among scientists from diverse backgrounds (physics, chemistry, biology, and engineering) to develop basic and applied research, always seeking interactions with local and global industry.

ICN2 also trains researchers in nanotechnology, develops numerous activities to facilitate the uptake of nanotechnology by industry, and promotes networking among scientists, engineers, technicians, business people, society, and policy makers.

ICN2 was accredited in 2014 as a Severo Ochoa Centre of Excellence.

The Severo Ochoa Program, sponsored by the Spanish Ministry of Economy and Competitiveness, aims to identify and support Spanish research centres that are among the world's best in their specialty. This award is the highest recognition of centres of excellence in Spain, and it is granted after international scientific committees carry out a rigorous evaluation of project proposals submitted by Spanish research centres.

Job Title: Research Technician

Area or Group of research:

Force Probe Microscopy and Surface Nanoengineering

Description of Group/Project:

Within the NFFA-EUROPE European Project, fast-scan capabilities of scanning probe microscopes (SPM) will be developed in collaboration with Technical University of Munich (TUM) and Consiglio Nazionale delle Ricerche (CNR) in Trieste.

One of the main limitations of SPM is their rather low time resolution that precludes the in-operando investigation of a variety of surface phenomena where time resolution down to few ten ms/image is required. Within this Fast SPM project a universal module transferable to various SPM control units will be developed. The fast module will be adapted both to STMs and to AFMs, at the maximum scanning rate achievable.

Main Tasks and Responsibilities:

- Characterization of photodetector response of commercial AFMs as well as study of eventual limiting factor for fast scanning
- Compatibility of the Fast SPM universal module to commercial AFM systems
- Perform fast scan experiments with the new setup

Qualifications, Experience and Skills Required:

Degree/PhD in Physics, Nanotechnology, Material Sciences, Chemistry.

Experience with Atomic Force Microscopy is mandatory. Good knowledge of English is required.

Summary of Conditions:

This is a full time position for a one year contract. The salary will be commensurate with the candidate's qualifications and experience.

How to apply:

Submit the following application documents through <http://jobs.icn2.cat/job-openings/81/research-technician> and include:

- Resume or CV
- Summary of the applicant's experience
- List of three references with contact details.
- Brief letter of motivation.

Equal opportunities:

ICN2 is an equal opportunity employer committed to diversity and inclusion of people with disabilities.