

The mission of the Catalan Institute of Nanoscience and Nanotechnology (ICN2) is to achieve the highest level of scientific and technological excellence in Nanoscience and Nanotechnology. Its research lines focus on the newly-discovered physical and chemical properties that arise from the behaviour of matter at the nanoscale. ICN2 has been awarded with the Severo Ochoa Center of Excellence distinction for three consecutive periods (2014-2018 and 2018-2022 and 2023-2026). ICN2 comprises 20 Research Groups, 7 Technical Development and Support Units and Facilities, and 2 Research Platforms, covering different areas of nanoscience and nanotechnology.

Job Title: Specialist Technician

Research area or group: Atomic Manipulation and Spectroscopy Group

Description of Group/Project:

This project is part of the activities to be held within the In-CAEM subproject, as part of the Advanced Materials program of the Planes Complementarios de I+D+I of the Plan de Recuperación, Transformación y Resiliencia. The main activity consist on the installation, set-up and supervision of a scanning probe microscope (SPM) that operates in ultra-high vacuum and cryogenic conditions and combines SPM techniques with tip-enhanced photon spectroscopies such as Raman and luminiscence, called Photon-SPM hereafter.

Main Tasks and responsibilities:

Set-up of the optical spectroscopy equipment of the UHV Photon SPM. This includes lasers, spectrometers, detectors, time resolved measurements. The candidate will centralize the control and communication of the different components and synchronize it with SPM operation.

Requirements:

- **Education:** Bachelor level background in physics, nanoscience or engineering
- **Knowledge:** Background in optical spectroscopies, experimental physics, instrumentation.
- **Professional Experience:** Automatization, control software, optical spectroscopies.
- **Personal Competences:** Good skills in programming for equipment control, data acquisition and analysis. Proficiency in English and demonstrated skills in oral and written communication.

Summary of conditions:

- Full time work (37,5h/week)
- Contract Length: Temporary (12-24 months)
- Location: Bellaterra (Barcelona)
- Salary will depend on qualifications and demonstrated experience.
- Support to the relocation issues.
- Life Insurance.

Estimated Incorporation date: Second semester of 2023

How to apply:

All applications must be made via the ICN2 website <https://jobs.icn2.cat/job-openings/543/specialist-technician-atomic-manipulation-and-spectroscopy-group> and include the following:

1. A cover letter.
2. A full CV including contact details.
3. 2 Reference letters or referee contacts.

Deadline for applications: 30/09/2023

“Financiado por el MCIN con fondos de la Unión Europea-NextGenerationEU(PRTR-C17.11) y por la Generalitat de Catalunya”

Plan de Recuperación, Transformación y Resiliencia – Financiado por la Unión Europea – NextGenerationEU.

Este contrato está financiado por el Mecanismo de Recuperación y Resiliencia de la Unión europea, establecido por el Reglamento (UE) 2020/2094 del Consejo, de 14 de diciembre de 2020, por el que se establece un Instrumento de Recuperación de la Unión Europea para apoyar la recuperación tras la crisis de la COVID-19, y regulado según Reglamento (UE) 2021/241 del Parlamento Europeo y del Consejo de 12 de febrero de 2021 por el que se establece el Mecanismo de Recuperación y Resiliencia, y quedará sometido a la totalidad de la normativa reguladora del Mecanismo de Recuperación y Resiliencia.

Se enmarca en la implementación de los Planes Complementarios de I+D+I con las comunidades autónomas, que forman parte del componente 17 del Plan de Recuperación, Transformación y Resiliencia, denominado “Reforma institucional y fortalecimiento de las capacidades del Sistema Nacional de Ciencia, Tecnología e Innovación”, en concreto en el SUBPROYECTO DE I+D “INSTALACIÓN CORRELATIVA IN-SITU PARA MATERIALES AVANZADOS PARA ENERGÍA (In-CAEM)” DEL PLAN COMPLEMENTARIO EN EL ÁREA DE MATERIALES AVANZADOS como parte de actuaciones del programa de Materiales Avanzados “Materials amb funcionalitats avançades per a la nova transformació tecnològica”, correspondientes a la comunidad autónoma de Cataluña, gestionado a través del Departament de Recerca i Universitats de la Generalitat de Catalunya.

Equal opportunities:

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

ICN2 is following the procedure for contract of people with disabilities according with article 59 of the Royal Decree 1/2015, of 30 of October.