

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 behavior of matter at the nanoscale. ICN2 has been awarded with the Severo Ochoa Center of Excellence distinction for two consecutive periods (2014-2018 and 2018-2022). ICN2 comprises 17 Research Groups, 7 Technical Development and Support Units and Facilities, and 2 Research Platforms, covering different areas of nanoscience and nanotechnology.

Job title: Research Technician of the X-ray Diffraction Facilities

Research area or group: Core Research Support Facilities

Description:

The Catalan Institute of Nanoscience and Nanotechnology (ICN2) seeks a Research Technician to manage the overall activity of the X-ray Diffraction Facility. This facility is equipped with two advanced X-ray diffractometers (X'Pert MPD and MRD from PANalytical). These pieces of equipment are dedicated to X-ray diffraction analysis of nanopowders and thin films as support of the research activities within ICN2 as well as the surrounding research community. The equipment are quite versatile so they are intended to perform from routine powder analysis and phase identification to more sophisticated measurements: glancing angle diffraction, X-ray reflectometry, diffuse scattering studies in nanopowders (SAXS), high-resolution analysis and reciprocal space mapping in epitaxial films, in-plane diffraction, as well as diffraction under non-ambient conditions (high temperature and controlled atmosphere), etc. The successful candidate will be responsible for the overall activity of the facility: operation and maintenance of the equipment, as well as management of equipment access by the users, and to provide the necessary training for the new users. As responsible of the X-ray Facility he/she will closely collaborate with the ICN2 scientists but also with other scientific institutions and private companies assisting them in the use of the facilities, and actively develop new procedures for nanomaterial characterization.

Main Tasks and responsibilities:

- Coordinating and overseeing all activities of the facility, running of the X-ray diffraction equipment including: operation, routine maintenance and trouble-shooting of equipment providing technical support to achieve optimum performance. Set up and calibration of instruments for specific experimental requirements.
- Arrange servicing and maintenance of equipment by the supplier when necessary.
- Managing the access of in-house or external users to the equipment.
- Provide training, advising and guiding in the use of the equipment.
- Supervise the proper use of the different lab facilities, including all laboratory safety issues
- Develop, implement and optimize novel working protocols and keep up-to-date the X-ray diffraction facilities equipment.

Education, Experience, Knowledge and Competences required:

- University degree preferably in Physics, Chemistry, Geology, Material Science or Materials Engineering.

- We look for a candidate with a solid experience in the techniques associated with the equipment described above but also with an experience of more than three years directing a X-Ry Diffraction Facility.
- The candidate shall possess good command of English.
- Candidates must be able to work independently and should have excellent laboratory skills.
- Demonstrated capability to work with scientists from disciplines different than own.
- Proactivity, team working and communication skills to train, support and collaborate with the team partners and the project partners.
- Effective spoken and written communication skills necessary to work in a collaborative research environment and to elaborate technical reports / measuring protocols

Summary of conditions:

- Full time work (37,5h/week)
- Contract: Permanent
- Salary will depend on qualifications and demonstrated experience.
- Support to the relocation issues.
- Life Insurance.

How to apply:

All applications must be made via the ICN2 website 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: 24th December 2019

Equal opportunities:

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