

ICN2 is a renowned research centre. Its research lines focus on the newly discovered physical and chemical properties that arise from the 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, while seeking out new ways to interact with local and global industry.

It also offers researchers training in nanotechnology, develops numerous activities to promote and enable 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 and is a founding member of the Barcelona Institute of Science and Technology (BIST). The aim of the Severo Ochoa Program, sponsored by the Spanish Ministry of Economy, Industry and Competitiveness, are to identify and support those Spanish research centres that demonstrate scientific leadership and impact at global level.

Job Title: Research Technician

Research area or group: Nanomaterials Growth Division

Description of Group/Project:

We are seeking an individual with background in thin-film growth for the development of Gallium Oxide thin-films for the development of cutting-edge nanoelectronic devices. The development will be carried out mainly at the Pulsed Layer Deposition system at the ICN2 facilities.

Main Tasks and responsibilities:

- To develop a thin-film technology for the growth of gallium oxide layers onto different substrates with different conductivities and doping control.
- To identify other ultra-wide bandgap oxides suitable for semiconductor device definition.
- To help in the definition of novel functional gallium oxide heterojunctions.
- To test the optoelectronic properties of the different fabricated structures.
- To report project progress.
- Possibility of completing a PhD.

Education, Experience, Knowledge and Competences required:

- **Education**
Physics, Nanoelectronics, Electrical Engineering, Chemistry or similar.
- **Knowledge**
Thin-film growth by PLD.
High level of English.
- **Professional Experience**
Ideally thin-film growth by PLD.

- **Competences**
Self-confidence
Independence
Creativity.

Research Career Profile (According to the European Framework for Research Careers):

R1 First Stage Researcher

Summary of conditions:

- Full time work (37,5h/week)
- Contract Length: 2 years approximately.
- Salary will depend on qualifications and demonstrated experience.
- Salary according to the cost of living in Barcelona.
- Support to the relocation issues.
- Life Insurance.

Estimated Incorporation date: January 2018

How to apply:

All applications must be made via the ICN2 website <http://jobs.icn2.cat/job-openings/125/research-technician> 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: December 17th

Equal opportunities:

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