

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: CLEAN ROOM TECHNICIAN

Research area or group: Advanced Electronic Materials and Devices

Description of Group/Project:

Advanced Electronic Materials and Devices Group focuses on the material sciences and technology aspects of novel electronic materials, with a strong emphasis on graphene as well as other 2D materials (MoS₂). The group also works towards the development of technological applications based on these materials such as electronics, bioelectronics and biosensing, neural interfaces, etc.

The activities cut across different scientific aspects, from the fundamentals (the physics of devices and semiconductors) to materials (growth of graphene and 2D materials by CVD, surface functionalization, advanced characterisation), through to devices (fabrication technology, nanofabrication) and applications (biosensors, neural implants and biomedical technologies, energy storage and conversion).

Main Tasks and responsibilities:

The successful candidate will give support to the research team in the device fabrication on graphene at the clean room facility.

The tasks will involve the support to the fabrication of graphene-based devices and the optimisation of the different steps:

Wafer-scale fabrication, e-beam metal evaporation, photolithography, reactive ion etching (RIE), thin-film transfer.

Education, Experience, Knowledge and Competences required:

- Education
Engineer/Master degree in Material science, Electronics, Chemistry, Technology, Microfabrication.
- Knowledge
Device/semiconductor technology (cleanroom experience)e-beam metal evaporation.
Photolithography.
Lab chemistry.
Design of data acquisition software (Labview, Labwin, Python).
Knowledge of characterisation techniques will be a plus (AFM, SEM,TEM).
Proficiency in English.
- Professional Experience
One year experience in a research lab/environment.
- Competences
Teamwork skills.

Summary of conditions:

- Full time work (37,5h/week)
- Contract Length: 1 year and 4 months aprox.
- 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: December 2018

How to apply:

All applications must be made via the ICN2 website <http://jobs.icn2.cat/job-openings/157/research-engineerlab-engineer> 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: November 20th

Equal opportunities:

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