



**Open positions in Quantum Technologies
at the Institute of Microelectronics of Barcelona, IMB-CNM-CSIC**

Qualified Research Assistant or Postdoctoral Researcher

Recent or running funded projects in the domain of **Quantum Technologies** by the PI, [PhD Rius](#) are

- Micro-nano fabrication technologies for mitigation of Radiation Effects (MINARE)
- Nanofabrication-Enhanced Superconducting Qubit Quality (NESQQ)
- Hybrid Superconducting nanostructures for Qubits & Quantum Technologies (HYBQTECH)
- Quantum Sensing for Dark Matter Searches (QS4DM)

All projects are done in collaboration, such as with National groups – QCT-IFAE, UAM, CFM-EHU, INMA, or IFCA.

A motivated researcher is now wanted for recently awarded project in National call Consolidación Investigadora 2023,

**Tunable Superconductivity in Thin Films for Quantum Sensing
by Advanced Ion Irradiation Methods (QUTE)**

Interested candidates are requested to have education and training profiles, including:

- Hold **BsC and/or Master in Physics, Electronics, Nanotechnology, Quantum, etc.**
- Be experienced in **Experimental Techniques**, in **at least 2 or 3 of the following areas**:
 - Superconducting materials & devices
 - Thin film materials
 - Ion beam irradiation or implantation of materials/surfaces
 - Micro/nanoelectronics processing and device fabrication
 - Electronic and electrical characterization of thin films
 - Cryogenics
- Hold a **PhD in Physics, Materials Science, Nanotechnology, Quantum, HEP, etc.**

Applications and requests for further information should be sent to

gemma.rius@csic.es

Interested researchers should include an **updated CV** and a **letter of intent or motivation**. Arrangement of **2/3 letters of recommendation** is recommended.

The appointments linked to QUTE project are offered for 2 years

Support and assessment for further career development can also be provided.

Proposed start of the appointment: **from April 2024**

Closing date: Open until the position is filled

