Institute of Microelectronics of Barcelona IMB-CNM CSIC

Research Technician - Printed RF Antennas

Integrated Circuits and Systems Group (ICAS)

The **IMB-CNM** is the largest institute in Spain dedicated to the research and development of Micro and Nano Technologies and Microsystems and with unique capabilities in silicon technology. It belongs to CSIC since its foundation in 1985 and is distinguished as a María de Maeztu Unit of Excellence.

IMB-CNM aims to contribute to the advancement of knowledge and to the economic and social development of society, as well as to the training of researchers and engineers and to the advice to public and private entities.

Research activities of IMB-CNM are dedicated to Micro/Nano Integrated Systems: miniaturized electronic systems which include sensing and/or actuating capabilities in addition to electronic information processing, power management and external interfaces.

The IMB-CNM is located on the Autonomous University of Barcelona (UAB) Campus and contains the largest clean room facilities in Spain with full capability to process its own CMOS technologies and laboratories.

Project:

The Institute of Microelectronics of Barcelona (IMB CNM CSIC) contributes to the European APECS pilot line, an initiative focused on advancing heterogeneous integration, chip-let based architectures, and 2.5D/3D packaging technologies for next generation electronic systems. Within this framework, Integrated Circuits and System Group employs innovative materials and advanced printing processes to fabricate antenna modules for future 5G/6G communication systems.

Key Responsibilities:

- ❖ Printing RF antennas and wireless components employing inkjet, screen-printing and dispensing technologies.
- ❖ Perform electrical and material characterisation of printed devices using appropriate measurement techniques and laboratory equipment.
- ❖ Collaborate with researchers and engineers from multidisciplinary teams.

Education and Experience

- ✓ MSc or equivalent degree in Nanotechnology, Chemistry, Electrochemistry, Electronic Engineering, Materials Science, or a closely related discipline. Candidates with interdisciplinary backgrounds, such as a dual degree in Physics and Chemistry, are also encouraged to apply.
- ✓ Hands-on experience in experimental research within a laboratory environment.
- ✓ Desirable: Experience with printed electronics and/or fabrication technologies, such as inkjet printing, screen printing, dispensing techniques, microfabrication or related additive manufacturing processes.
- ✓ Working proficiency in English and Spanish is required.

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Skills and Competencies

- ✓ Strong teamwork and collaboration skills in multidisciplinary research environments.
- ✓ Critical thinking and problem-solving abilities, with a proactive approach to experimental challenges.
- ✓ Ability to manage deadlines, prioritize tasks and work effectively across multiple activities.
- ✓ Commitment to continuous learning, openness to feedback and a willingness to contribute to process and technology improvement.

What We Offer

- ➢ The opportunity to join one of Spain's leading research centres in micro- and nanotechnologies, internationally recognised for the excellence of its scientific and technological activities.
- ➢ Access to advanced micro/nanofabrication and testing facilities.
- ➢ A dynamic, collaborative and multidisciplinary environment with highly qualified researchers, engineers and technical specialists.
- ➢ Permanent full-time contract.
- ➢ Salary in accordance with qualifications and applicable CSIC employment conditions.
- ➢ Expected start date: October-November 2026

Interested in joining us?

Complete this **form** and send your CV and Motivation Letter to Carme.Martinez@imb-cnm.csic.es, with the subject: **"Research Technician - Printed RF Antennas".** Incomplete or non-eligible applications will be automatically rejected.

*Applicants are kindly advised to ensure that their CVs clearly demonstrate compliance with the requirements of the position. CVs should include precise dates, relevant skills, and notable achievements that evidence the candidate's suitability and distinction in the selection process.

Deadline: August 30th, 2026

Shortlisted candidates will be contacted by September 29th, 2026 to be informed of next steps.

Check our website for more information about the IMB-CNM and our research activities

Take the next step in your research career with us!

By applying, you accept our data protection policy.

IMB-CNM (CSIC) adheres to the European Charter and Code of Conduct for Researchers, ensuring full alignment with their principles and requirements, including equal opportunity, transparency, merit and ability, caring for an open, fair, and excellence-based hiring processes.

IMB-CNM holds the HR Excellence in Research award, which acknowledges CSIC's commitment to continuous improvement in HR strategies for researchers.

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