

Institute of Microelectronics of Barcelona IMB-CNM (CSIC)

Design of an RF receiver

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

The main activities of IMB-CNM are basic and applied research and development, education and training in micro and nanotechnologies, components and systems. Its mission is to improve knowledge and contribute to the implementation of solutions based on these technologies in new products to solve societal challenges.

The candidate will design an RF receiver in a flexible technology. The design will be done with the standard analog IC flow. First different topologies for receivers will be researched. From these, one will be selected and designed in the microelectronic technology. Finally, the performance will be analyzed from simulations.

Key Responsibilities

- Researching RF receiver technologies
- Designing the RF receiver
- Simulating and writing a report with the accomplished performance

Required skills

- Knowledge of electronics
- Electronic design
- RF design

Experience

- Microelectronic design subject
- Preferably knowledge of RF receivers and telecommunications

Job conditions

- TFG or work placement internship
- Flexible hours

How to apply

Applications should be submitted to rrhh@imb-cnm.csic.es and roger.sole@csic.es stating the job title as the Subject of the message. The mail should include a cover letter and an updated CV.

Sending CVs to the above address implies consent to the Legal Advice | IMB CNM (csic.es). This offer can be found on:

<https://www.imb-cnm.csic.es/en/about-center/careers/open-positions>.

More information on IMB-CNM: <https://www.imb-cnm.csic.es/en/>