

Institute of Microelectronics of Barcelona IMB-CNM (CSIC)

Design of DC-DC converters for Energy Harvesting Applications

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.

This work will design analog and mixed-signal blocks for Energy Harvesting applications based on DC-DC converters and/or charge pumps. The design may include both converters and complementary blocks.

Key Responsibilities

- Research of the state of the art
- Design and simulation of the different blocks
- Design of the physical implementation

Required skills

- Previous knowledge on CMOS technologies/design
- Knowledge in Electronic design

Experience

- Having coursed the Microelectronic design subject
- Preferably knowledge in Electronic circuit design

Job conditions

- Flexible hours
- TFG/TFM or work placemanship

How to apply

Applications should be submitted to rrhh@imb-cnm.csic.es and miquel.redon@imb-cnm.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/>