



PreDoctoral position at MESSI group of the Institute of Microelectronics of Barcelona IMB-CNM-CSIC

MESSI group (**MicroEnergy Sources and Sensor Integration Group**) of the Institute of Microelectronics of Barcelona (IMB-CNM-CSIC) offers a postdoctoral position within the project *nanoDecoTEG*, funded by the Spanish Ministry of Science and Innovation.

nanoDecoTEG is a coordinated project based on the hypothesis that is possible to create a functional material from nanostructured/ decorated thin films that can be integrated on microfabricated microgenerators that will make possible to provide energy to IoT nodes replacing primary batteries. The subproject “*Micro Thermoelectric Harvesters based on Nanostructured Thin films*” aims at building micro thermoelectric generators based on nanostructured thin films to improve the state of the art, with supply energy to autonomous sensors and actuators that require low energy (sub-Watt) and with a small footprint.

Interested PhD students candidates are expected to:

- Master in **Physics, Materials Science, Nanotech**, etc.
- Knowledge on experimental techniques, in at least two of the following areas:
 - Finite element modelling to evaluate the device performance and integration,
 - Thin film materials and techniques,
 - Micro/nanoelectronic device fabrication,
 - Electrical device characterization.

Applications and requests for further information should be sent to:

marc.salleras@imb-cnm.csic.es and lilibertat.Abad@imb-cnm.csic.es

Interested researchers should include an **updated CV** with a letter of intent or motivation and **academic report**.

Proposed start of the appointment: Jan 2023-Febr 2023

Closing date: Open until the position is filled