

Job title

Fabrication, assembly and characterization of micro-thermoelectric generators

Job description

TFG on the development of micro-thermoelectric harvesting devices under research.

Main tasks and responsibilities

The proposed work will be related with the different parts of the development of micro-thermoelectric generation devices: fabrication (involving clean room processes), assembly (involving advanced techniques to adapt the microdevices to optimize its performance to the conditions of the application environment) and characterization (including detailed performance measurements to fully understand how the devices work and to provide information for improving the devices). The proposed work plan for the student will be focused, after a whole understanding of the device and its fabrication and assembly processes, into the electrical and thermal characterization of the device.

Requirements

Be in position for a TFG work and knowledge/interest in the Micro and Nano Technologies field.

Description of Group/Project

The main interest of the IMB-CNM Thermoelectrics grup is focused to the fabrication and characterization of micro-thermoelectric generators. In the frame of the European Projects HARVESTORE and EPISTORE, our research group is involved in the development of both energy harvesting and energy storage microdevices focused on IoT wireless nodes. These devices are conceived and fabricated by means of Micro and Nano Technologies, extensively using the Clean Room Facilities at IMB-CNM and also in collaboration with the corresponding facilities from the other partners in the projects.

How to apply

All applications must be sent to joaquin.santander@imb-cnm.csic.es

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- This offer can be found on: <https://www.imb-cnm.csic.es/en/about-center/careers/open-positions>
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