

## Job title

TFM: Micro/nano cells for 'in situ' measurements in synchrotron experiments

## Job description

The objective of this work is the design, manufacture and testing of a manufactured micro / nano platform that confines liquid samples means of ultrathin membranes, allowing the characterization by synchrotron light.

## Main tasks and responsibilities

The design and fabrication will be carried out at the facilities IMB-CNM, which hosts the Integrated Clean Room for Micro and Nano Fabrication ([www.imb-cnm.csic.es/en/micro-and-nanofabrication-clean-room](http://www.imb-cnm.csic.es/en/micro-and-nanofabrication-clean-room)) with the necessary set of equipment and processes for the realization of devices and micro / nano systems. The test will be carried out in collaboration with the Alba synchrotron and also within the framework of the European NEP Project ([www.nffa.eu/news/project-updates/pilot-nep/](http://www.nffa.eu/news/project-updates/pilot-nep/)).

## Requirements

Undergraduate and post-graduate studies on physics, chemistry, electronic engineering, chemical engineering and nanoscience and nanotechnology.

## Description of Group/Project

Nanofabricacion and Nanomechanical Systems Group ([NANONEMS](#))

## Summary of conditions

- This position is thought for a Master Thesis.
- Possibilities to be later on enrolled for a PhD thesis.

## How to apply

- All applications must be sent to [francesc.perez@csic.es](mailto:francesc.perez@csic.es).
- Include a letter of motivation

**Deadline for applications** Position will be open until a suitable candidate is found.

**Institute of Microelectronics of Barcelona IMB-CNM (CSIC)**  
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**Expected start date** To be agreed with the candidate.

- 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/>

