



Call for Expression of Interest:

Marie Curie Individual Fellowship for post-docs

The Micro & Nanotools Group (MNTLs) invites PhD researchers to express their interest in writing a Marie Curie Postdoctoral Fellowship application related to one or more of the research topics listed below.

The deadline for the expression of interest is 30th June 2023. The actual deadline for submission of the proposal is 13th September. Please visit the MSCA Postdoctoral Fellowship webpage for more details on what the funding covers and who can apply:

<https://marie-skłodowska-curie-actions.ec.europa.eu/actions/postdoctoral-fellowships>

MNTLs is a multidisciplinary group focused on the development of advanced functional Micro- and Nanostructures, for a wide range of applications. Our research include the design, simulation, fabrication, characterization, and the final application. One of our research lines deals with the development of novel **opto-magnetic nanodevices** enabling wireless actuation and detection with light and magnetic fields for applications in the Health and Environment areas. Within this research line, we support applications focused on the next research topics:

- 1) Opto-magnetic nanoreactors as therapeutic agents of solid tumours
- 2) Opto-electric actuators for stimulation of retinal and superficial tissue
- 3) Magneto/opto-mechanical microstimulators (for mechanical stimulation of excitable cells) and detectors.

Successful candidate will have access to the facilities of the IMB-CNM, including the 1500 m² clean room for micro and nanofabrication and associated labs (SEM/AFM, rapid prototyping, magneto-opto-mechanical characterization, Biolab, etc.). She/he will be trained in the use of these laboratories and equipment as needed for the development of the proposed research.

Candidate Profile:

We are looking for motivated researchers with PhD in Physics, or Micro and Nano technology, with experience or high interest in the biomedical application (hands-on). Experience in micro/nano fabrication, plasmonics, opto-electronics, opto-mechanics, photothermal effects, and cell cultures will be valued. We welcome Expressions of Interest from researchers of any nationality, and especially encourage women's applications.

Interested candidates, please send your expressions of interest to borja.sepulveda@csic.es or mar.alvarez@csic.es

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