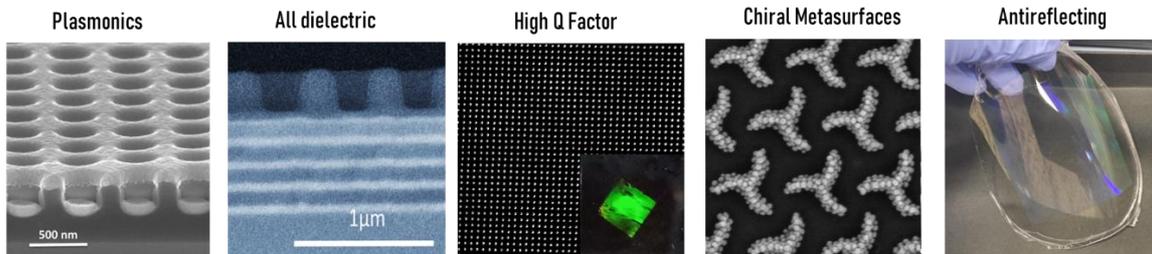


## Postdoctoral Position OFFER



TOPIC: Photonic architectures fabricated by soft nanoimprinting lithography for light manipulation

WHERE: Institute of Materials Science of Barcelona ICMAB-CSIC (SPAIN)

DURATION: 2 years

FUNDING: The candidate will join be funded by the HORIZON-EIC-2021-PATHFINDEROPEN project DYNAMO (*Dynamic Spatio-Temporal Modulation of Light by Phononic Architectures*).

OUR GROUP (<https://nanophotonics.icmab.es>) We focus on the exploration of nanophotonic properties in light matter interaction with a twist: our photonic nanostructures are fabricated via soft nanoimprinting lithography, so they can be easily produced and seamlessly implemented in many applications and devices.

### Main tasks of the candidate

The main tasks that will be carried out within the project include:

- Fabrication and optimization of different nanostructures exhibiting photonic and phononic properties (*cleanroom experience valued*)
- Design and building optical set ups for the optical characterization of the nanostructures. Fundamental study/characterization of materials and devices using, e.g. advanced spectroscopy. (*optical spcetroscopy experience valued*)
- Experience modelling optical properties of nanostructures via FDTD (*Comsol, Lumerical, etc*)



## Requirements

**We look for** an enthusiastic researcher familiarized with the fields of photonics/plasmonics and:

- PhD in Materials Science, Nanoscience, Physics or similar subjects.
- A good level of written and spoken English.
- Optical setups know-how and optical spectroscopy background.
- Nanofabrication experience, knowledge of vacuum and cleanroom work environments.

## Details of the position

Contract (full time) duration for 2 years, within the EIC Pathfinder project DYNAMO

Tentative Starting date: January-February 2024

Further information (contact person): Dr. Agustín Mihi, [agustin.mihi@csic.es](mailto:agustin.mihi@csic.es)

<https://nanophotonics.icmab.es>

## How to apply

Interested candidates should send by email to Dr. Agustín Mihi ([agustin.mihi@csic.es](mailto:agustin.mihi@csic.es)) the following documents:

- motivation letter (where you introduce yourself, previous experience in relation to the post and future goals)
- detailed CV, including the academic record, and a list of references with contact details

HIRING PROCESS will take place via the CSIC employment platform. This is a lengthy process but we will help you with it.

**Closing date for application: The recruitment process will be closed on December 30<sup>th</sup> or when a suitable candidate is found.** However, in the interest of gender equality, this may be extended until the ratio between female and male applicants is reasonable.

**About ICMAB** :The Institute of Materials Science of Barcelona (ICMAB-CSIC) is a multidisciplinary research center focused on cutting-edge research in functional advanced materials. The ICMAB is integrated within the Barcelona Nanocluster in Bellaterra (BNC-b), a research network that includes the UAB, the CSIC (ICMAB, IMB-CNM and ICN2) and IRTA, part of the UAB Research Park of the Universitat Autònoma de Barcelona (PRUAB) and the ALBA Synchrotron.

<https://icmab.es/>