

Postdoctoral Position in Nanophotonics

TOPIC: Integration of Photonic Nanostructures in LEDs

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

DURATION: 2 years . (**Begin** April 2025)

FUNDING: The candidate will join the HORIZON-EIC-2023-PATHFINDEROPEN project RADIANT (*Chiral LEDS based in Photonic Architectures*). <https://radiant-pathfinder.eu/>

IN 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

- a) Construction of **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*). Special emphasis in circular dichroism set ups and LED characterization.
- b) **Modelling** optical properties of nanostructures and **designing** chiral photonic nanostructures via FDTD (*Comsol, Lumerical, etc*)
- c) **Fabrication** of different nanostructures exhibiting photonic properties will be valued.
- d) **Integration of Photonic nanostructures in different LED technologies**

We look for an enthusiastic researcher familiarized with the following topics: **Circular Dichroism**, **LED devices** and **photonics/plasmonics** and also a good level of written and spoken English.

Details of the position

Contract (full time) duration for 2 years, within the EIC Pathfinder project RADIANT
Tentative Starting date: April 2025 (take into account the hiring process is lengthy)

How to apply

Interested candidates should send by email to the following address (agustin.mihi@csic.es) including 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 April 28th or **when a suitable candidate is found.**

<https://icmab.es/>

