

MARIE SKŁODOWSKA-CURIE ACTIONS

Become a MSCA Postdoctoral Fellow at i3N

Click [here](#) to learn the next steps to apply for funding under this call



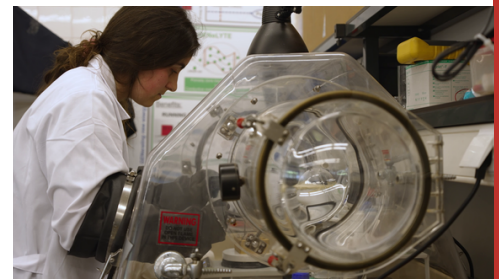
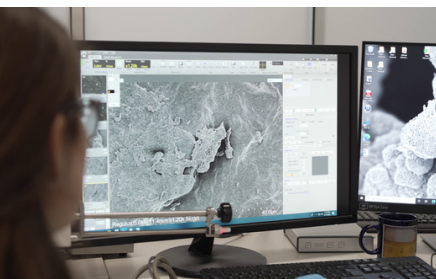
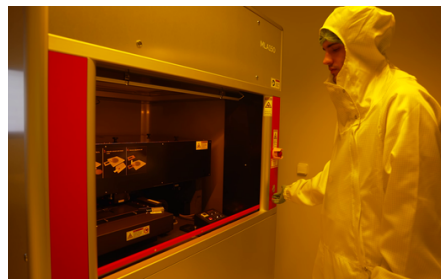
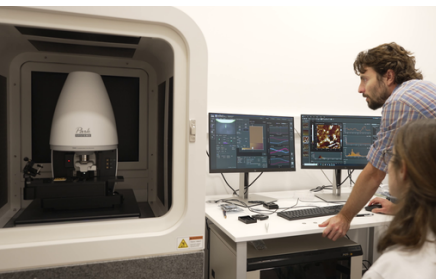
i3N

INSTITUTE FOR
NANOSTRUCTURES,
NANOMODELLING AND
NANOFABRICATION

EU Call Deadline: SEPTEMBER 11, 2024

Eligibility Criteria

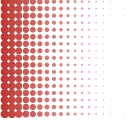
- a)** Hold a PhD degree at the time of the deadline for applications;
- b)** A maximum of eight years experience in research, from the date of the award of their PhD degree;
- c)** mobility rules: the candidate must not have spend more than 12 months at i3N, in the 36 months before recruitment.



Being a **MSCA Postdoc Fellow** at i3N means you can:

- Enjoy a fully funded research position lasting between 12 and 24 months;
- Collaborate closely with an international and multidisciplinary team;
- Develop new skills using i3N's state-of-the-art facilities;
- After the fellowship, have the option for an additional placement of up to 6 months in a non-academic European organization.

6 RESEARCH GROUPS



■ **Materials for Electronics, Optoelectronics and Nanotechnologies**

Following the responsible electronics directives from EU, the group develops research on i) flexible and sustainable electronics, ii) energy harvesting, conversion and storage and iii) bioelectronic and biomedical devices. These are transversally supported by world-class infrastructure and expertise on nanomaterials synthesis&deposition (0D to 3D), micro&nanopatterning and advanced characterization.

Group Leader Prof. Pedro Barquinha | pmcb@fct.unl.pt

■ **Nanophotonics and Optoelectronics**

Optical Devices for Sensing and Fundamental Optics and Photonics.

Group Leader Prof. Paulo Antunes | pantunes@ua.pt

■ **Physics of Advanced Materials and Devices**

Synthesis and analysis of advanced materials spanning micro to nanostructures. The focus is on understanding optical, electrical, and magnetic properties to drive innovation for novel prototype devices. The main goal is to develop customised solutions across electronics, optoelectronics, photonics, energy, and biomedical fields.

Group Leader Prof. Manuel Graça | mpfg@ua.pt

■ **Soft and Biofunctional Materials**

The SBMG research is aligned with i3N thematic lines and focuses on:

i) biomimetic cellulose-based materials with stimuli-responsive properties allowing the control and detection of chirality at the micro- and nanoscale. ii) the development of hybrid bio(nano)materials for biomedical applications: multifunctional magnetic nanoparticles for cancer theranostics, controlled drug delivery systems, bio-batteries, and scaffolds for tissue regeneration. iii) Rheometry and NMR spectroscopy as tools for the development of new materials .

Group Leader Prof. João Paulo Borges | jpb@fct.unl.pt

■ **Structural Materials**

Welding, Addictive Manufacturing, and the production of nanostructured materials encompassing metals, ceramics, and composites. The materials of interest range from advanced metallic alloys to ceramics, and even extend to the preservation of cultural heritage assets.

Group Leader Prof. João Pedro Oliveira | jp.oliveira@fct.unl.pt

■ **Theoretical and Computational Physics**

The group research aims at understanding and anticipating the physics of materials and devices through modelling and simulation. It also focuses on understanding complex systems with multiple interacting components.

Group Leader Prof. José Mendes | jfmendes@ua.pt

Click [here](#) to watch the i3N Infrastructures and Equipment Promotional Video

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