

The mission of the Catalan Institute of Nanoscience and Nanotechnology (ICN2) is to achieve the highest level of scientific and technological excellence in Nanoscience and Nanotechnology. Its research lines focus on the newly-discovered physical and chemical properties that arise from the behavior of matter at the nanoscale. ICN2 has been awarded with the Severo Ochoa Center of Excellence distinction for two consecutive periods (2014-2018 and 2018-2022). ICN2 comprises 19 Research Groups, 7 Technical Development and Support Units and Facilities, and 2 Research Platforms, covering different areas of nanoscience and nanotechnology.

**Job Title:** Postdoctoral Researcher

**Research area or group:** Thermal Properties of Nanoscale Materials

**Description of Group/Project:**

The Group of Thermal Properties of Nanoscale Materials (GTNaM) at ICN2 has been working on stable vapor-deposited organic glasses and some of their applications for the past 10 years. Recent works include: the increase efficiency of organic light-emitting devices (OLEDs) using ultrastable glasses (Sci. Adv. 2018), the transformation mechanisms of stable glasses (Phys. Rev. Lett. 2019 and 2020), the absence of two-level systems in the low-temperature regime (PNAS, 2014) and the anisotropy in the thermal transport of these materials (Phys. Rev. Mat. 2018), among many other works

**Main Tasks and responsibilities:**

- Growth and thermodynamic and microstructural characterization of donor and non-fullerene acceptor thin films and their mixtures during co-evaporation.
- Fabrication and characterization of OPVs.

**Requirements:**

- **Education**  
PhD in Physics or Physical Engineering.
- **Professional Experience**  
Experience in fabrication and characterization of organic devices, including organic photovoltaics. Strong publication record in this area
- **Knowledge**  
Thermal evaporation of organic materials and photovoltaic and electronic characterization of organic devices.

**Summary of conditions:**

- Full time work (37,5h/week)
- Contract Length: Temporary (6 months).
- Location: Bellaterra (Barcelona)
- Salary will depend on qualifications and demonstrated experience.
- Support to the relocation issues.
- Life Insurance.

Estimated Incorporation date: 15/02/2022

**How to apply:**

All applications must be made via the ICN2 website and include the following:

1. A cover letter.
2. A full CV including contact details.
3. 2 Reference letters or referee contacts.

Deadline for applications: 23/11/2021

**Equal opportunities:**

ICN2 is an equal opportunity employer committed to diversity and inclusion of people with disabilities.