

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 three consecutive periods (2014-2018, 2018-2022 and 2023-2026). ICN2 comprises 20 Research Groups, 7 Technical Development and Support Units and Facilities, and 2 Research Platforms, covering different areas of nanoscience and nanotechnology.

Job Title: 10 Severo Ochoa Doctoral Students (multiple groups) – General Call

Research topics:

- Doctoral Student in Advanced materials for quantum technologies (Ref.PhD1)
- Doctoral Student in Translating nanotechnologies in Medicine (Ref.PhD2)
- Doctoral Student in Nanosolutions for energy efficient information processing and communication (Ref.PhD3)
- Doctoral Student in Advanced technologies for energy harvesting, conversion, storage and thermal management (Ref.PhD4)
- Doctoral Student in Nanocharacterization of materials through advanced in-situ/operando techniques (Ref.PhD5)
- Doctoral Student in Modelling and Simulation of nanomaterials harnessing AI and ML methods (Ref.PhD6)
- Doctoral Student in Nanomaterials design, engineering and discovery supported by AI (Ref.PhD7)
- Doctoral Student in Developing innovative methods for nanofabrication of advanced nanomaterials (Ref.PhD8)
- Doctoral Student in Nanosolutions in Oncology (Ref.PhD9)
- Doctoral Student in Nanoelectrocatalysis and sustainable chemistry (Ref.PhD10)

Description of Group/Project:

During the application process, candidates will be asked to select the ICN2 research group(s) they would like to join. Please visit the profiles of our groups at <http://icn2.cat/en/research>

Requirements:

Candidates must fulfil the following requirements:

- Have obtained a Master or equivalent degree in a field of science related to ICN2 research activities or group they would like to join by the date of incorporation.
- Have an excellent academic record and strong commitment to scientific research. Previous research experience is highly regarded.
- High level of English.
- Specific additional eligibility requirements may apply depending on the funding schemes available.

For any further clarification as to these requirements, applicants should contact hr@icn2.cat prior to submitting an application.

Research career profile (based on the European Framework for Research Careers):

First Stage Researcher (R1)

Summary of conditions:

- Full-time working contract as a PhD researcher. Contracts include medical care under the Spanish public healthcare system and workplace accident insurance.
- Relocation support.
- ICN2 social benefits: life insurance, flexible timetable, flexible compensation package.
- Training and monitoring programme: Students admitted to the ICN2 PhD Programme will have full access to the scientific, technical, and transferable skills training and relevant monitoring activities organised each year.

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.
4. Applicants should indicate in the application form 3 ICN2 groups they would like to work in.

Deadline for applications: 15th January, 2023*

1. Doctoral Student in Advanced materials for quantum technologies (Ref.PhD1): <https://jobs.icn2.cat/job-openings/483/doctoral-student-in-advanced-materials-for-quantum-technologies-refphd1>
2. Doctoral Student in Translating nanotechnologies in Medicine (Ref.PhD2): <https://jobs.icn2.cat/job-openings/484/doctoral-student-in-translating-nanotechnologies-in-medicine-refphd2>
3. Doctoral Student in Nanosolutions for energy efficient information processing and communication (Ref.PhD3): <https://jobs.icn2.cat/job-openings/485/doctoral-student-in-nanosolutions-for-energy-efficient-information-processing-and-communication-refphd3>
4. Doctoral Student in Advanced technologies for energy harvesting, conversion, storage and thermal management (Ref.PhD4): <https://jobs.icn2.cat/job-openings/486/doctoral-student-in-advanced-technologies-for-energy-harvesting-conversion-storage-and-thermal-management-refphd4>
5. Doctoral Student in Nanocharacterization of materials through advanced in-situ/operando techniques (Ref.PhD5): <https://jobs.icn2.cat/job-openings/487/doctoral-student-in-nanocharacterization-of-materials-through-advanced-in-situoperando-techniques-refphd5>

6. Doctoral Student in Modelling and Simulation of nanomaterials harnessing AI and ML methods (Ref.PhD6): <https://jobs.icn2.cat/job-openings/488/doctoral-student-in-modelling-and-simulation-of-nanomaterials-harnessing-ai-and-ml-methods-refphd6>
7. Doctoral Student in Nanomaterials design, engineering and discovery supported by AI (Ref.PhD7): <https://jobs.icn2.cat/job-openings/489/doctoral-student-in-nanomaterials-design-engineering-and-discovery-supported-by-ai-refphd7>
8. Doctoral Student in Developing innovative methods for nanofabrication of advanced nanomaterials (Ref.PhD8): <https://jobs.icn2.cat/job-openings/490/doctoral-student-in-developing-innovative-methods-for-nanofabrication-of-advanced-nanomaterials-refphd8>
9. Doctoral Student in Nanosolutions in Oncology (Ref.PhD9): <https://jobs.icn2.cat/job-openings/491/doctoral-student-in-nanosolutions-in-oncology-refphd9>
10. Doctoral Student in Nanoelectrocatalysis and sustainable chemistry (Ref.PhD10): <https://jobs.icn2.cat/job-openings/492/doctoral-student-in-nanoelectrocatalysis-and-sustainable-chemistry-refphd10>

After submitting their application, the applicant will receive confirmation of receipt by email. For additional information in the application procedure, please contact hr@icn2.cat

* Applications will be reviewed continuously, and vacancies may be filled before the deadline due to the scholarship calendar. Do not wait until the deadline for your application.

Equal opportunities:

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

ICN2 is following the procedure for contract of people with disabilities according with article 59 of the Royal Decree 1/2015, of 30 of October.