

As a flagship research center in nanoscience and nanotechnology, our mission is to open and explore new frontiers of knowledge at the nanoscale, and bring value to society in the form of new understanding, capabilities and innovation, while inspiring and providing broad training to the next generations of researchers. Our values are Commitment, Collaboration and Transformation.

Our research lines focus on the newly-discovered physical and chemical properties that arise from the behaviour of matter at the nanoscale. ICN2 has been awarded with the Severo Ochoa Center of Excellence distinction for three consecutive periods (2014-2018 and 2018-2022 and 2023-2026). 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: Lab Technician (NANORADIOMED)

Research area or group: Nanostructured Functional Materials Group

Description of Group/Project:

This project belongs to the project call Colaboración Público-Privada (CPP), CPP2024-011271, funded by MICIU, AEI and FEDER funds. It will be carried out through the collaboration between the Nanostructured Functional Materials (Nanosfun) Group (www.nanosfun.com) of the Institut Català de Nanociència i Nanotecnologia (ICN2), Carinsa SA, UAB, and FUNDACIÓ INSTITUT D INVESTIGACIÓ EN CIÈNCIES DE LA SALUT GERMANS TRIAS I PUJOL. The project is highly multi- and interdisciplinary and focused on the development of biocompatible nanocapsules for the controlled release of additives to prevent radiodermatitis in women subjected to radiotherapy after treatment of breast cancer (Title: Nanopartículas para la liberación controlada de ingredientes activos para la Prevención en Mujeres de la Radiodermatitis secundaria asociada a la radioterapia contra el cáncer de mama (NANORADIOMED)). The project has a highly applied focus and implies the collaboration with both academic and industrial partners.

Main Tasks and responsibilities:

The candidate research activity will be related to the NANORADIOMED project, with full dedication. It is an applied research project, in collaboration with research institutes and other companies (Carinsa SA). New patents are expected to come out from the project.

The project involves:

- the optimization of the formation of biocompatible nanocapsules loaded with active materials,
- Morphological and structural characterization of the nanocapsules.
- Study of the control release of the active materials.
- Investigation of the beneficial effects of the released loading against radiodermatitis.
- Direct collaboration with private companies.
- Preparation of samples for the delivery to partners.
- Studies in biological tissues.
- Formulations of prototypes of commercial product.
- Participation to meetings.

Most of work will be carried out in high confidential regime.

The hired person will be fully focused on this project, carrying on lab work, but also preparation of progress reports, protocols and presentations to share the latest results.

Requirements:

- **Education:**
Master in Chemistry, nanoscience and nanotechnology, Materials Science, and similar.
 - **Knowledge and Professional Experience:**
At least 2 years of experience in lab work and research, especially in the synthesis and characterization of polymeric nanoparticles.
Expertise in working with biocompatible nanomaterials.
Experience/Background in materials/polymers science.
Will to run an applied research project.
Will to work with both private and academic partners.
 - **Personal Competences:**
Good spoken English.
Used to pressure during peak activities.
Capability to work autonomously is a must.
- Other skills that would be considered:
Experience in cells culture and work devoted to the treatment of cancer with nanotechnology
Good attitude in working in a team.
Motivation and ability to overcome scientific challenges.

Summary of conditions:

- Full time work (37,5h/week)
- Contract Length: Temporary, until the end of the project (3 years)
- Location: Bellaterra (Barcelona)
- Salary will depend on qualifications and demonstrated experience.
- Support to the relocation issues.
- Life Insurance.
- Work-Life Balance and Flexibility with flexible work schedules
- 28 holidays per year
- Flexible compensation plan: tax advantages contracting some products (health insurance, childcare, training, among others.)
- Training activities: languages, mentoring programme, wellbeing programme.
- International environment

Estimated Incorporation date: as soon as possible

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.

Applications will be reviewed continuously.

This contract is part of the project CPP2024-011271, funded by MICIU/AEI/10.13039/501100011033/ FEDER, UE



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.