



Nano4Rare project – Nanoformulation Development Technician

We are seeking a highly motivated Nanoformulation Development Technician to join the Nanomol-Bio group (<https://nanomol-bio.icmab.es/>) at the Institut de Ciència de Materials de Barcelona (ICMAB-CSIC) in Bellaterra. We are specifically looking for a team member with a background in nanoparticle formulation.

Main tasks:

The candidate will work in the Nano4Rare project (Preclinical development of a nanomedicine candidate for Fabry rare disease treatment to enter clinical phase), funded by the Strategic EIC Transition Challenges program from European Innovation Council, and granted to the Nanomol-bio group (CSIC) (<https://nano4rare.eu/>).

As a Nanoformulation Development Technician, the candidate will prepare and characterize nanoformulations based on nanovesicles, focusing specifically on the pharmaceutical product being developed for the treatment of Fabry disease, named nanoGLA, and intended to progress to preclinical phases. The candidate will also be involved in the data management of the results obtained in the Nano4Rare project.

Key responsibilities:

- Preparation of new batches of nanoGLA at different production scales, especially using high-pressure techniques and tangential flow filtration.
- Characterization of nanoGLA samples, using different physicochemical/biological techniques for colloidal systems, such as DLS, ELS, cryo-TEM, among others.
- Store and classify all the data acquired in the Nano4Rare studies.
- Register and process all the parameters obtained in the Nano4Rare project.
- Collaborate with the other involved areas for the correct advance of the nanoGLA drug product development.

Requirements:

- BSc in Nanoscience, Chemistry, Chemical Engineer, Biochemistry, Pharmacy, or a related field.
- MSc in Biochemistry, Pharmacology, Biotechnology, Nanoscience, or a related field.

Personal skills & others:

- Experience on the preparation and physicochemical characterization of nanovesicular systems is desirable.
- A working understanding of laboratory management, calibrations, protocol development, and quality system monitoring to product development is desirable.
- Proactive, team player and excited to collaborate with others.
- Strong organizational and communication skills.
- Ability to adapt to a flexible and changing R&D environment, and to work independently.
- Basic English and computer skills at user level.

Conditions:

Type of contract: full time contract



Salary: Gross annual salary in accordance with the CSIC salary policy, depending on the candidate's qualification and professional experience.

Starting date of contract: As soon as possible.

How to apply:

Send the following application documents to nano4rare@icmab.es :

- Curriculum (CV)
- Motivation letter
- Statement of the applicant's experience

The recruitment process will be closed when a suitable candidate is found.

About us:

The **Molecular Nanoscience and Organic Materials department (Nanomol)** has extensive experience and recognized excellence in the synthesis, processing, and study of molecular and polymeric materials with chemical, electronic, magnetic, and biomedical properties. We continuously generate new knowledge in our basic and applied research projects on the micro and nanostructure of molecular materials. We offer this knowledge to improve the properties of products manufactured in different sectors, such as chemical, pharmaceutical, and electronic, thus contributing to increase their added value. As a department, we actively participate in the implementation of nanotechnology and sustainable and economically efficient technologies for the preparation of advanced functional molecular materials. Nanomol is a member of the Biomedical Research Network (CIBER) in the area of Bioengineering, Biomaterials, and Nanomedicine (CIBER-BNN); and is awarded with the TECNIO seal, which is given to Catalan research groups with high innovative and technology transfer capabilities. We belong to the Institute of Materials Science of Barcelona (<https://icmab.es/>), a CSIC research institute (ICMAB-CSIC). Our facilities are located on the campus of the UAB (Universitat Autònoma de Barcelona). Nanomol is composed by two research groups, one of them is Nanomol-bio, which is group is devoted to the synthesis, physicochemical characterization, and development, up to pre-clinical regulatory phases, of molecular and polymeric (nano)materials for biomedical applications: (i) therapy, (ii) diagnosis, (iii) prevention, and (iv) regenerative medicine.

ICMAB-CSIC is a multidisciplinary global reference centre for the cutting-edge research of functional materials for electronics, energy and health which fosters knowledge transfer and it is characterized by its internationalization and its education, inclusion and diversity policies. ICMAB-CSIC is committed to know-how transfer to productive sectors as well as to participate in educational and outreach activities. Since 2016, ICMAB -CSIC has been awarded for three consecutive periods with the Severo Ochoa Centre of Excellence distinction.

ICMAB-CSIC, with over 250 members from 47 nationalities, is a more than three decades old research institute located at the Universitat Autònoma de Barcelona (UAB) campus, surrounded by other research and technological centres and with access to many state-of-the-art equipment and scientific facilities. Moreover, ICMAB-CSIC has its own scientific services equipped with the newest scientific instrumentation and with highly specialised technical staff available to the scientific community.