



Postdoctoral researcher position at Nanobots Therapeutics | Chem

Location: Barcelona

Employment Type: Full-time

www.nanobotstx.com

About Nanobots Therapeutics

Nanobots Therapeutics is a young innovative biotech start-up developing a disruptive drug delivery platform with a priority in oncology. We are a dynamic, fast-paced team passionate about pushing the boundaries of science and delivering solutions that have a meaningful impact on healthcare. We are located at Barcelona Science Park (PCB).

Role Overview

We seek a highly motivated and organized post-doc researcher to lead and coordinate critical projects within our organization. This individual will play a pivotal role in driving research applied to biomedical unmet needs primarily in oncology field. The ideal candidate thrives in a start-up environment and has a strong background in nanomedicine within the chemistry or life sciences sector.

Key Responsibilities:

1. Research planning & execution:

- Synthesis and characterization of biocompatible and biodegradable nanoparticles to be used as drug delivery carriers.
- Characterize the physico-chemical structure of the nanoparticles/nanomotors.
- Study of enzyme functionalization and drug loading/release capabilities of nanoparticles for the development of precision and personalized nanobots.
- Design of nanobots to be used as active smart drug delivery systems.

2. Research coordination & reporting:



- Guide bachelor, master, and PhD students.
- Interaction and reporting within Nanobots Therapeutics and partners.
- Actively working in the development of new ideas that give rise to future and/or evolution of projects and generation of intellectual property.
- Technical preparation and justification of project proposals to public and private funding.
- Direct reporting to CSO. Provide regular updates to C-level management on project status and KPIs.

3. Strategic Contribution:

- Support the development of the company's long-term goals and pipeline.
- Identify opportunities for nanomotors and drug development improvement and scalability.

Qualifications & skills:

Essential:

- PhD in the field of chemistry, biochemistry, nanobiotechnology, pharmacy, nanomedicine, or similar with five years of experience.
- Experience in nanoparticle synthesis, and characterization of biocompatible and/or biodegradable organic (e.g., lipidic, polymeric, hydrogel-based) nanocarriers.
- Knowledge of common characterisation techniques in chemistry (NMR, FTIR, DLS, Z- potential, GPC, HPLC chromatography, SEM, TEM, AFM, spectroscopy equipment, etc).
- Experience on surface and functionalization of nanoparticles (e.g., surface grafting with polymers to reduce protein corona effect, anchoring an antibody/enzyme.)
- High level of English.

Advantageous:

- Experience in drug loading and drug delivery studies with therapeutic small molecules.



- Basic knowledge of fluorescence microscopy.
- Competencies and skills: Communication, Teamwork, Proactivity, Commitment, Collegiality, Integrity, Critical and Analytical thinking.

What we offer:

- Opportunity to work in a cutting-edge, fast-growing start-up.
- A collaborative and inclusive work environment.
- Professional development and growth opportunities.
- Competitive salary.
- Flexible working hours.
- Possibility to apply together to a Torres-Quevedo contract.

How to Apply:

Until **April 23st**

Please send your resume and a cover letter to msoler@nanobotstx.com (Marta) with the subject line "Postdoc researcher (Chem) Application – [Your Name]."

We are an equal-opportunity employer and value diversity at our company. We encourage applications from individuals of all backgrounds.