

JOB OFFER



Postdoctoral researcher - RNA Synthetic Delivery Systems

Founded in 1964, Inserm is a public scientific and technological institute dedicated to biomedical research and human health. It is involved in the entire range of activities from laboratory research to the patient care. Inserm brings together 15,000 researchers, engineers, technicians and administrative staff, all with one shared objective: improve health by advancing knowledge of living organisms and diseases and developing innovative treatments.

A new project, **ReNAissance** led by Bruno Pitard, has been selected by an international jury as a high-risk health research program with the potential to generate strategic conceptual and technological breakthroughs in the coming decades. The goal of **ReNAissance** is to advance medical research by developing a breakthrough therapeutic approach for treating infectious diseases through *in vivo* mRNA expression encoding therapeutic antibodies.

The Pitard laboratory, in the Immunology and New Concepts in Immunotherapy (INCIT) department of Inserm and CNRS (Nantes University, France) **is seeking an innovative and highly motivated postdoctoral researcher to lead the design and synthesis of novel, breakthrough synthetic delivery systems for the efficient non-inflammatory delivery of therapeutic mRNA molecules.**

KEY RESPONSABILITIES



- **Lead medicinal chemistry efforts** aimed at optimizing a new class of synthetic delivery systems for RNA therapeutics
- **Identify and develop suitable analytical methods** for characterization and validation
- **Oversee chemistry synthesis activities at CRO/CDMO partners**, including approval of protocols and reports
- **Collaborate with the team** to evaluate and optimize the efficiency and safety of our RNA delivery technologies
- Prepare technical updates for reporting to funding agencies
- Prepare figures and authors manuscripts for submission to high-impact journals

BASIC QUALIFICATIONS



- **Ph.D in chemistry with 2-4 years of experience, demonstrated by a strong track record of peer-reviewed publications and project achievements**
- Experience in polymer chemistry is preferred; experience in lipid and nucleotide is a plus
- Strong synthetic chemistry expertise and proficiency in analytical techniques

PREFERRED QUALIFICATIONS



- Ability to work independently, collaborate across disciplines and lead interdisciplinary activities to guide the selection of breakthrough mRNA delivery systems and deliver project milestones.
- Experience with analysis of polymer and RNA is highly desirable
- Hands-on experience with DLS, HPLC, fluorescence-based RNA quantification, UV, microfluidic mixing is highly recommended



APPLICATION PROCESS



Candidates should submit a motivation letter, a Curriculum Vitae (including publication list) and contact details of three professional references (including the PhD advisor) to bruno.pitard@univ-nantes.fr



The position is based in Nantes, France, near the Atlantic Ocean.

Learn more: <https://www.levoyageanantes.fr/>

The successful candidate will work at the Health Research Institute 2 (IRS2) within the New Concepts in Immunotherapy (INCIT) department: <https://incit.fr/>



Start date: June 1, 2025

Contract type: Fixed-term (18 months, renewable)