Position 2: Lipid nanoparticles (LNPs) for mRNA-based vaccines

Key Responsibilities:

1. Design, synthesize and characterize LNPs
2. Evaluate the efficacy and safety of mRNA/LNP therapies in vitro and in vivo
3. Perform a range of immunological, molecular biology, and cell culture techniques

Qualifications and Skills Required:

1. PhD in Chemistry, Chemical Engineering, Bioengineering, Immunology, or a related field
2. Experience in the design, synthesis and characterization of lipids and LNPs
3. Proficiency in organic and polymer synthesis
4. Experience in immunological techniques
5. Experience with in vivo models
6. Desirable prior experience with cancer or autoimmune-disease models

The successful candidate will have the opportunity to work in a state-of-the-art laboratory environment and collaborate with leading experts in the field. Interested applicants should submit a cover letter, CV, and contact information for three references to [sj19@cornell.edu]. Review of applications will begin immediately and continue until the position is filled.