Position:

Director/Senior Principle Scientist, LNP (Lipid Nanoparticle) Formulation

Company Overview:

Kernal is creating mRNA drugs that instruct specific cells in the body on how to make their own medicine. Messenger RNA technology has proven extremely useful in rapidly developing vaccines against COVID. Kernal is developing the next-generation of mRNA therapy, called mRNA 2.0. It solves a critical problem of cancer cell selectivity that affects mRNA and oncolytic virus-based immuno-oncology drugs. Located in Cambridge, MA, Kernal received three awards from Amgen and NASA. With roots at MIT, Harvard, and Big Pharma, Kernal's interdisciplinary team of MDs and PhDs previously built a successful Biotech company and has deep expertise in mRNA space.

Job Summary:

Kernal is seeking an individual with deep expertise in RNA delivery space to lead our mRNA delivery efforts. This person will report to the CSO and will be responsible for developing novel LNP (Lipid Nanoparticle) systems for *in vivo* mRNA delivery to support our immuno-oncology and infectious diseases efforts. In addition, this person will oversee and, when necessary, help with routine LNP manufacturing. The successful candidate must be able to work in a fast paced and highly dynamic startup environment. Ideal candidate will be a leader and a great team player with excellent communication skills and effective, inspiring management style.

Responsibilities:

- Develop novel LNP systems (identify novel lipids, lipid modifications, conjugations, new processes, etc.)
- Improve existing LNP formulations, working closely with scientific advisory board members
- Characterize physicochemical properties of LNP formulations
- Work closely with pharmacology and program teams to deliver on key milestones
- Guide company's RNA delivery strategy
- Help build and manage company's LNP team
- Stay up-to-date on RNA delivery literature and prepare technical reports and white papers
- Assist in IP filings and manuscript preparations
- Present scientific findings internally and then externally at key scientific conferences and industry events.

Requirements:

- PhD in Chemistry/Chemical Engineering/Biochemisty (Candidates with BS/MS may be considered if they have a successful track record in industry)
- 3-10 years of hands-on experience with lipid nanoparticles systems for mRNA and/or siRNA delivery
- Proficiency in synthesis of novel lipids and conjugation of biomaterials

- Experience with analytical techniques for LNPs such as HPLC/UPLC, DLS, UV-Vis, fluorescence spectrophotometry, Ribogreen assay, gel electrophoresis, capillary electrophoresis, etc.)
- Excellent communication skills (oral and written)
- Strict record keeping skills (eLN)
- Startup mind-set (innovative and enthusiastic team player, problem solver)
- Willingness to learn, teach, and grow in a fast-pace environment
- Industry experience, strong management skills and basic knowledge of the drug development processes are preferred

Benefits:

- Competitive 401(k)
- Highly competitive healthcare coverage
- On-site subsidized cafeteria
- Free parking, monthly subway pass or a subsidized commuter rail pass
- Free MIT Athletic Membership
- Free Bluebikes Membership
- Flexible Spending Account
- Paid parental leave, family caregiver leave, medical leave
- Paid insurance coverage
- Competitive vacation and sick days per year

Kernal is dedicated to providing a diverse work environment and is committed to equal employment opportunity for all its employees and qualified applicants. We do not discriminate in employment practices for reasons of race, color, national origin, age, gender, sexual orientation, marital or veteran status, religion, disability, or any other legally protected status. Kernal will make reasonable accommodations for qualified individuals with known disabilities, in accordance with applicable law.

Click Here to Apply: https://www.kernalbio.com/careers