Postdoctoral Research Positions

Nano Medicine and Drug Delivery

Research Projects: We have developed novel technologies to encapsulate biological therapeutics and poorly bioavailable therapeutics at higher loadings and efficiencies than previously achieved. The process is being implemented at large scale for global health by the Gates Foundation, and a startup is focusing on biologics delivery. The research involves developing fundamental understanding of the encapsulation process, the control of release kinetics, and demonstrating biological efficacy and endosomal targeting trafficking of nanoparticles. All of the work is collaborative with industrial and academic research groups. Students from the group have gone on to both academic and industrial research positions.

Desired Research Background of Applicant: I am looking for two postdoctoral researchers. The skill sets for the projects span: mammalian cell culture, cell biology, oligonucleotide and peptide delivery, polymer self-assembly, nanoparticle characterization, transport phenomena, polymer synthesis, drug conjugation, and imaging. Of course, no candidate is expected to cover this spectrum of fields. Broadly speaking I am looking for one candidate with more biological emphasis and one with more nanoparticle formation and delivery emphasis.

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Selected references:
https://app.box.com/s/uir6r6nr1juwbp96b673bbd05tg5spbt