

Open postdoc position – lipid nanoparticle formulation development and processing

The Ristroph Lab (RistrophLab.com) in the Department of Agricultural and Biological Engineering at Purdue University is looking for a collaborative, communicative postdoctoral scholar to join our research program as soon as possible. Candidates must have a Ph.D. in biological/chemical engineering, biology/biochemistry, pharmacology, or a related field.

The successful applicant will lead the group's work on an industrial/academic partnership, funded by a \$2.7M contract with the United States FDA, that focuses on developing novel mRNA lipid nanoparticle formulations and large-scale processing techniques to improve throughput and stability. The successful applicant will also have the opportunity to contribute to several side projects in nanomedicine for global health (formulating small molecules, peptides, proteins, etc.) coming online in the coming months. Experience with *in vitro* protein expression is desirable. Candidates should have a strong publication history and interest in mentoring graduate students and undergraduates in research projects related to drug formulation and delivery.

Interested candidates should email their C.V. and contact information for at least one reference to Dr. Ristroph (ristroph@purdue.edu) with the subject line "FDA project postdoc candidate."

Work in the Ristroph Lab focuses on developing *scalable organic nanomaterials for medical and agricultural applications*. We design nanocarriers for the controlled delivery of therapeutics, imaging agents, and agrochemicals, then evaluate their movement and efficacy in target systems. In parallel, we closely study the material science fundamentals underpinning our nanoformulation platform to inform future process development and drive innovation.

The Purdue Agricultural and Biological Engineering Department and its undergraduate and graduate programs are regularly ranked #1 in the nation by *U.S. News & World Report*. For more information, see engineering.purdue.edu/ABE.