



**Penn Medicine**  
ABRAMSON CANCER CENTER

**Michael J. Mitchell, Ph.D.**  
Skirkanich Assistant Professor of Innovation  
School of Engineering and Applied Science  
Department of Bioengineering  
Abramson Cancer Center  
Institute for Translational Medicine and Therapeutics

University of Pennsylvania  
240 Skirkanich Hall, 210 S. 33<sup>rd</sup> Street  
Philadelphia, PA 19104  
Phone: 215-898-0882  
Email: [mjmitch@seas.upenn.edu](mailto:mjmitch@seas.upenn.edu)  
Lab: <https://mitchell-lab.seas.upenn.edu>

A postdoctoral fellow position is available in Prof. Michael Mitchell's laboratory in the Department of Bioengineering at the University of Pennsylvania. The successful applicant will focus on **engineering polymeric and lipid-based drug delivery systems for immunotherapy and gene editing applications**, and interface with our clinical collaborators at the Parker Institute for Cancer Immunotherapy (<https://www.parkerici.org>) and the Penn Gene Therapy Program (<https://gtp.med.upenn.edu>).

**The successful applicant is expected to conduct the following tasks:**

- Synthesize and characterize novel biomaterials including, but not limited to, lipid and polymeric materials in support of sponsor-funded projects.
- Formulate and characterize lipid and polymeric nanoparticles.
- Pursue independent and collaborative research projects that involve the design, development, and application of polymer and lipid nanoparticle systems.
- Communicate closely with the PI, lab members, and clinical collaborators on project development, material characterization, and experimental results.
- Contribute to sponsor briefings and grant proposals, publish original research, and present research at national and international conferences.

**Required qualifications:**

- PhD in chemistry, polymer science, engineering, materials science, or a related field.
- Extensive hands-on experience with polymer chemistry and lipid synthesis.
- Ability to perform independent research and propose new ideas.
- Organizational skills to maintain laboratory process inventories and notebooks.
- Excellent oral, written, and interpersonal communication skills.
- Experience with cell culture, molecular biology, and animal studies is desirable, but not required for this position.

**To apply:**

Interested candidates should e-mail Prof. Michael Mitchell at [mjmitch@seas.upenn.edu](mailto:mjmitch@seas.upenn.edu) with their cover letter, curriculum vitae, and contact information for three references. The cover letter should include a description of the candidate's relevant research experience, research interests, expectations for the position, short- and long-term career goals, and preferred start date. **The initial appointment is for one year with the ability to renew annually pending satisfactory progress. Start date immediately or upon mutual agreement.**