Postdoctoral Researcher Position
Day Lab, University of Delaware, Newark, DE

A postdoctoral researcher position is available in the laboratory of Dr. Emily Day in the Department of Biomedical Engineering at the University of Delaware (UD). Current research in the Day Lab aims to engineer nanoparticles for high precision treatment of cancers, hematologic disorders, and gynecologic/reproductive health conditions. Our expertise spans gene regulation, photothermal therapy, and drug delivery. More information about the Day Lab is available at: http://sites.udel.edu/daygroup. The open postdoctoral position is funded by an R35 from the National Institutes of Health which focuses on understanding and overcoming the biological barriers that limit the efficacy of nanomedicines. In addition to advancing this funded project, the postdoctoral researcher will be encouraged to pursue new research avenues, apply for grants and fellowships, and build scientific management expertise.


Ammon Pinizzotto Biopharmaceutical Innovation Center

Compensation will be commensurate with NIH salary guidelines and will include a competitive benefits and retirement package. The initial term is one year, with renewable, annual contracts pending satisfactory progress and continued funding. The Day Lab is in the state-of-the-art Ammon Pinizzotto Biopharmaceutical Innovation Center at UD. Eligible applicants are encouraged to discuss with Dr. Day the possibility of being nominated for the Institute for Engineering Driven Health Postdoctoral Researcher Award, which offers funding support for outstanding postdoctoral researchers to conduct research under the mentorship of world-class faculty at UD (more information at https://edh.udel.edu/visiting-scholars-program/).

Qualifications:
Candidates must have a doctorate in Biomedical Engineering, Chemical Engineering, Chemistry, Materials Science, Pharmacy/Pharmaceutical Science, or related discipline. The ideal candidate will have experience with both nanomaterials and animal handling, but training to acquire new skills in either area will be offered. Preference will be given to candidates with expertise in three or more of the following: (1) nanoparticle synthesis and characterization, (2) animal research, including healthy mouse models or mouse models of breast cancer, glioblastoma, hematologic disorders, endometriosis, or pregnancy complications, (3) cell culture, (4) molecular biology techniques, (5) gene regulation (i.e., nucleic acid or antibody delivery), (6) overcoming biological barriers in nanomedicine (e.g., mucus, extracellular matrix, protein corona, vessel extravasation), (7) inflammation, (8) immunotherapy, (9) photothermal therapy, (10) photoacoustic imaging, (11) drug delivery, (12) biomimicry, and (13) microscopy. Candidates must demonstrate excellent scientific communication skills, enthusiasm for interdisciplinary research and collaboration, and the ability and willingness to mentor graduate and undergraduate students.

Application Process:
Qualified applicants should assemble a (1) cover letter, (2) curriculum vitae, (3) list of references, and (4) representative first-author manuscripts (3 maximum) and e-mail the application as a single PDF to Kejian Li, the Day Lab Coordinator, at likejian@udel.edu, with a copy provided to Dr. Day at emilyday@udel.edu. The cover letter should describe the candidate's research experience, project interests, career goals, and preferred start date. Review of applications will begin immediately and continue until the position is filled.

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