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Postdoctoral Position in Nanomedicine Day Lab, University of Delaware, Newark, DE

The Day Lab in the Department of Biomedical Engineering at the University of Delaware (UD) is searching for a postdoctoral researcher. Current research in the Day Lab aims to engineer nanoparticles for high precision treatment of cancer, bone marrow failure disorders, and pregnancy-related conditions. Our expertise spans gene regulation, photothermal therapy, and biomimicry. More information about the Day Lab is available at: <http://sites.udel.edu/daygroup>. The open postdoctoral position is funded by grants from the National Institutes of Health. In addition to advancing these funded projects, the postdoctoral researcher will be encouraged to pursue new research avenues, apply for grants and fellowships, and build scientific management expertise.

Salary compensation will be commensurate with NIH guidelines and will include a competitive benefits and retirement package. The initial term is one year, and postdoctoral researchers are eligible for 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. The ideal start date is January 2022, but earlier or later start dates may be negotiated.



Qualifications:

Candidates must have a doctorate in Biomedical Engineering, Chemical Engineering, Chemistry, Pharmacy, Materials Science, or a 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 experience in three or more of the following areas: (1) nanoparticle synthesis and characterization, (2) translational research in rodents, (3) mouse models of breast cancer, bone marrow failure disorders, or pregnancy complications, (4) cell culture, (5) gene regulation mediated by nucleic acids or antibodies, (6) molecular biology techniques (e.g, qRT-PCR, Western blotting), (7) overcoming biological barriers in nanomedicine (e.g., mucus penetration, tumor penetration, protein corona formation), (8) immunotherapy, (9) photoresponsive therapy, (10) drug delivery, (11) biomimicry, and (12) 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) two first-author manuscripts and e-mail the application as a single PDF to Kejian Li, the Day Lab Coordinator, at likejian@udel.edu. The cover letter should describe the candidate's research experience, project interests, career goals, expectations for the position, and preferred start date. Review of applications will begin in October and continue until the position is filled.