

Employment Opportunities

- [Microbiologist to Support Drug Discovery Research](#)
- [Computer-Aided Drug Discovery](#)
- [Discovery of non-opioids for the treatment of chronic pain](#)
- [Cryo-electron tomography of virus-host interaction and bacterial metabolism](#)

Post-doctoral Position for Microbiologist to Support Drug Discovery Research

The laboratory of Dr. Daniel Flaherty in the Department of Medicinal Chemistry and Molecular Pharmacology at Purdue University is seeking a post-doctoral research associate in the field of microbiology to support NIH funded drug discovery efforts against novel antibacterial targets of interest in our laboratory. The laboratory is a vibrant research environment and highly interdisciplinary with medicinal chemistry, biochemistry, and structural biology teams all supporting antibiotic drug discovery efforts in search of novel inhibitors for enterococcus and Neisseria gonorrhoeae pathogens. The successful candidate will gain valuable experience and understanding of the drug discovery process and contributing to a team for advancement of molecules. Required degree/skills: PhD (or expected PhD) with experience in microbiology supported by peer-reviewed publications. Required experience includes antimicrobial testing (MICs, killing kinetics, etc), mutant isolation, bacterial genetic manipulation, target identification. Desired Skills – Candidates with experience in Omics approaches (transcriptomics, proteomics, metabolomics) in the context of drug treatment are especially encouraged to apply.

The candidate would have access to world-class facilities and instrumentation to support their work. Other responsibilities include managing data, managing strain library, maintaining a laboratory notebook, assisting graduate students in microbiology, and manuscript preparation. This position is funded by a grant from the National Institutes of Health in search of novel inhibitors for new antibacterial targets. The position offers a competitive salary commensurate upon experience plus benefits and is contingent upon meeting progress milestones. The successful applicant will be assessed for productivity on a bi-annual basis with the option of yearly renewal if agreed upon by both parties.

Interested candidates should submit a cover letter, CV and at least 3 references that are familiar with the candidate's experience and research potential to <https://careers.purdue.edu/job-invite/24145/>. The position is open immediately, however, start date is flexible and negotiable depending on the availability of the candidate. For more information, please visit <https://www.flahertylab.com/positions>

Postdoctoral Positions in Computer-Aided Drug Discovery at Purdue University

Description

Professor Jianing Li is seeking several postdoctoral researchers in her laboratory in the Department of Medicinal Chemistry and Molecular Pharmacology (MCMP) at Purdue University. The Li research group is working on the innovation of multiscale modeling to discover new medicines. Current projects include computer-aided drug discovery (i.e., small molecules, peptide drugs, and nucleic acid therapeutics) and highly coarse-grained force field development. More information can be found on the current group website <https://web.ics.purdue.edu/~li4578/>.

Requirement

Applicants should have a Ph.D. in Computational Chemistry, Biochemistry, Biophysics, Computer Science, and related fields. Desirable skills include a good understanding of molecular structures and force field methods, molecular dynamics simulations, basic programming skills, solid doctoral publication record, good verbal and written communication skills, and an ability to work effectively in a teamwork environment with collaborators from different disciplines. Prior experience with machine learning or Python programming will be a plus. Salary will be commensurate with experiences.

Applications should include CV, representative publications, the names of three referees, a cover letter detailing their qualification for this position and what they would contribute to the laboratory.

Applications should be sent by email to jianing-li@purdue.edu.

Discovery of non-opioids for the treatment of chronic pain:

We seek highly motivated postdoctoral associates to apply novel chemical, cellular, and genetic approaches to study adenylyl cyclase signaling for drug discovery. We have ongoing collaborations with medicinal chemists, pain experts, and NCATS. A Ph.D. in pharmacology, cell biology, or biochemistry is desired. The ideal candidate should have expertise in one or more of the following areas: cell biology (including mammalian cell culture, transfection, PCR, qPCR, western blotting), signal transduction, molecular biology, neurobiology, and enzyme kinetics. Interested candidates should send a brief statement of research interests, CV, and contact information of three references to Val Watts (wattsv@purdue.edu).

Cryo-electron tomography of virus-host interaction and bacterial metabolism

The Metskas lab is looking for a research technician / lab manager to join us on either a part-time or full-time basis. We specialize in cryo-electron tomography of virus-host interaction and bacterial metabolism, but this position could involve cell culture, computational processing, and/or laboratory management depending on the skills and goals of the applicant. Applicants should have at least one year of experience in life sciences research; beyond this, all skill levels are welcome. You can learn more about the lab and our research here: <https://www.science.purdue.edu/metskaslab> . Please contact metskas@purdue.edu for more information or to apply.
