

Research Technician II - Pharmacology and Toxicology
University at Buffalo, The State University of New York

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Posted Nov. 16, 2023, set to expire Aug. 4, 2024

Job Title	Research Technician II - Pharmacology and Toxicology
Department	Pharmacology and Toxicology
Institution	University at Buffalo, The State University of New York Buffalo, New York
Date Posted	Nov. 16, 2023
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Biology - Molecular Biology - Cell Biology
Job Website	https://www.ubjobs.buffalo.edu/postings/46529

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Job Description

The Department of Pharmacology and Toxicology is seeking a highly motivated Research Technician II to work in laboratory of Dr. Amanda Klein helping to conduct research examining the cellular and molecular mechanisms that control pain in mammals

The individual hired for this position is expected to conduct research examining the cellular and molecular mechanisms that control pain in mammals. One of the primary foci of this position will be to conduct experiments that can be used to measure analgesia/hyperalgesia using rodent models. Current laboratory projects use various methods to investigate the nervous system on *in vitro* and *in vivo* levels. Future experiments will incorporate molecular biology methods to identify genes, proteins, and other small molecules that are responsible for initiating or maintaining chronic pain in mammals. Collaborators on these projects may be located at other universities or research institutions nationally

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and internationally. Thus, the ability to work independently, collaborate, and supervise lab operations are important. Individuals who will welcome the opportunity to expand ongoing research programs in chronic pain and its therapeutic applications in humans are encouraged to apply.

The successful candidate should be self-starting and bring creativity, enthusiasm, and additional cell and molecular expertise to a research group that studies chronic pain in mammals. Research accomplishments involving cell and molecular biology of mammalian systems would be particularly beneficial.

Duties and Responsibilities:

- Design/develop experiments and conduct research based on Specific Aims of research project including critical review of scientific literature, development/modification of scientific protocols; analysis/interpretation of data.
- Statistical analysis of multiple research results/data from laboratory personnel. Generate and interpret reports from statistical programs (e.g. GraphPad, JMP, Statistica, Matlab, R, etc.)
- Coordinate lab personnel and provide leadership and mentoring to students.
- Critically review/recommend relevant literature relating to procedures and techniques.
- Order equipment/materials for the laboratory.
- Maintain safety records for the laboratory.
- Maintain laboratory equipment and space owned by the PI and by the Department, including training new equipment users on proper procedures.
- Disposal of chemical regents and controlled substances as per University regulations.
- Design/modify sensitive equipment needed to conduct specialized experiments.
- Perform/assist with small animal handling; mammalian cell culture including primary culture and immortalized cell lines; flow cytometry; cloning DNA constructs, DNA/RNA sequencing, eukaryotic cellular transfection, ion flux assays using fluorescence and/or radioactivity, various biochemical assays to quantify protein and small molecules (e.g. ELISA); qPCR; immunohistochemistry; western blotting, action potential recordings; record and analyze animal behavior experiments.
- Animal handling including tissue/fluid collection, weighing, and behavioral assessment.
- Assist with preparation of manuscripts, posters, and/or reports.

The candidate should be familiar with computers and the use of Microsoft Office Software.

Outstanding Benefits Package

Working at UB comes with benefits that exceed salary alone. There are personal rewards including comprehensive health and retirement plan options. We also focus on creating and sustaining a healthy

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mix of work, personal and academic pursuit - all in an effort to support your work-life effectiveness. Visit our benefits website to learn about our [benefit packages](#).

About UB

The University at Buffalo (UB) #ubuffalo is one of America's leading public research universities and a flagship of the State University of New York system, recognized for our excellence and our impact. UB is a premier, research-intensive public university dedicated to academic excellence. Our research, creative activity and people positively impact the world. Like the city we call home, UB is distinguished by a culture of resilient optimism, resourceful thinking and pragmatic dreaming that enables us to reach others every day. Visit our website to learn more about the [University at Buffalo](#).

As an Equal Opportunity / Affirmative Action employer, the Research Foundation will not discriminate in its employment practices due to an applicant's race, color, religion, sex, sexual orientation, gender identity, national origin and veteran or disability status.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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