

Research Scientist
University at Buffalo, The State University of New York

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Posted Oct. 23, 2024, set to expire Aug. 4, 2025

Job Title	Research Scientist
Department	Physiology and Biophysics
Institution	University at Buffalo, The State University of New York Buffalo, New York
Date Posted	Oct. 23, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Physiology/Human Physiology Physiology/Exercise Physiology
Job Website	https://www.ubjobs.buffalo.edu/postings/53623

Apply By Email

Job Description

Are you excited by the prospect of joining a team-first research laboratory focused on identifying neural mechanisms underlying learning, memory, and decision-making in health as well as understanding their dysfunction in disease states? The laboratory of Prof. Dheeraj Roy in the Physiology and Biophysics Department at UB has an exciting Research Scientist opportunity to pursue these neuroscience directions. Our lab is also part of the Neuroscience program at UB.

Our group will address these fundamental biological questions using cutting-edge molecular and systems neuroscience techniques, including single-nuclei and spatial transcriptomics, the development of novel reporter tools using CRISPR/Cas9 that permit cell type-specific targeting in live animals, circuit tracing using whole-brain imaging techniques, physiological recordings from live animals using genetically-encoded calcium indicators (i.e., using fiber photometry, single cell-compatible miniscopes), manipulating individual cell types and their circuits during behavior using optogenetics, and human

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organoid models. We combine these experiments with significant computational approaches including machine learning, neural network modeling, and statistical analyses. While our research will start with basic science questions, the longer-term goal is to apply our knowledge to human disease models with the hope of identifying candidate therapeutic manipulations, either molecular target- or circuit-based, that can be translated to higher species.

For more information, please visit our lab website:
<https://dsroy.lab.medicine.buffalo.edu/>

Ideal candidates will be highly motivated to work on systems neuroscience and AI in the beautiful Jacobs School of Medicine and Biomedical Sciences building in downtown Buffalo. Candidates will play critical roles in:

- Setting up molecular and neuroscience techniques/protocols (35% effort)
- Efficiently performing foundational experiments (35% effort)
- Be responsible for mentoring and training future members (15% effort)
- Contributing to grant and manuscript preparation (15%)
- Enjoy working in a highly collaborative environment (within the laboratory, department, school, and across universities)

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 mix of work, personal and academic pursuit - all in an effort to support your work-life effectiveness. We support your growth and development through our career coaching and training department and we qualify as a public service loan forgiveness organization. Learn more about the great [benefits](#) the University at Buffalo has to offer.

About The University at Buffalo

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



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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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