

Postdoctoral Associate, Chemistry
University at Buffalo, The State University of New York

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Posted Jan. 27, 2023, set to expire Aug. 4, 2023

Job Title	Postdoctoral Associate, Chemistry
Department	Chemistry
Institution	University at Buffalo, The State University of New York Buffalo, New York
Date Posted	Jan. 27, 2023
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Chemistry - General
Job Website	https://www.ubjobs.buffalo.edu/postings/40326
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Job Description	

[The Alexey Akimov group](#) in the [Department of Chemistry](#), at the University at Buffalo, seeks a **Postdoctoral Associate** to work on the development, implementation, and comprehensive assessment of quantum-classical and semiclassical methodologies for nonadiabatic dynamics.

Within this project, a range of advanced nonadiabatic and quantum dynamics (NA/QD) techniques will be implemented into the Libra library, including coupled and independent trajectory surface hopping methods, schemes based on stochastic Schrodinger equation and Lindblad formalism, equilibrium and non-equilibrium Fermi golden rule rate calculations, exact-factorization-based techniques and more. Relying on these and other techniques already available within the Libra package, the Postdoctoral Associate will conduct a comprehensive validation and assessment of available NA/QD techniques using a range of model Hamiltonians to develop a “Jacob’s ladder” of NA/QD methods.

Within the project, the Postdoctoral Associate will also be able to interface these NA/QD techniques

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with electronic structure methods to contribute to applied atomistic studies of charge and energy transfer in solar energy materials. During their appointment in the group, the Postdoctoral Associate will have access to adequate computational resources at the Center for Computational Research (CCR) at UB. S/he will be involved in other activities such as presenting at conferences, mentoring student, contributing to proposals, and will participate in various training and outreach events.

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. Visit our benefits website to learn about our [benefit packages](#).

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 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