

Postdoctoral Associate
University at Buffalo

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Posted Apr. 24, 2025, set to expire Aug. 4, 2025

Job Title Postdoctoral Associate
Department Biomedical Informatics Department
Institution University at Buffalo
Buffalo, New York

Date Posted Apr. 24, 2025

Application Deadline 04/23/2026
Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Computer/Information Sciences
Biomedical Sciences
Biology - Computational

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Job Description

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Postdoctoral Associate, Biomedical Informatics Department

Position Information

Position Title: Postdoctoral Associate, Biomedical Informatics Department

Department: Biomedical Informatics Department

Posting Link: <https://www.ubjobs.buffalo.edu/postings/56778>

Job Type:

Postdoctoral Associate University at Buffalo

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Full-Time

Posting Detail Information

Position Summary

The Postdoctoral Associate will perform research and develop software tools in Bioinformatics, working on drug discovery related applications particularly the CAND multiscale drug discovery platform developed by the [Division of Bioinformatics](#) at the University at Buffalo:

1. Integrating the CANDO drug discovery platform with LLM-based reasoning models to build a specialized AI agent for drug discovery.
2. Enhance existing protocols for compound-protein interaction and/or binding affinity prediction within the CANDO platform.
3. Enhance and integrate a network of biological/chemical entities to predict properties or activities.
4. Modularize key components of the CANDO platform for more efficient integration with proposed CANDO AI agent.

Duties will include, but are not limited to:

- Performing independent and/or mentored informatics research to aid the development of the software tools.
- Presenting research tool capabilities to the scientific community at national conferences and other scientific meetings.
- Preparing and submitting research tool development/findings for peer reviewed publication.
- Co-developing CANDO software regularly with current primary developers in the Samadralla group.
- Assisting with the training of individuals seeking to use the software tools.
- Creating and disseminating text or video tutorials for the software.

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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 Americas 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 applicants race, color, religion, sex, sexual orientation, gender identity, national origin and veteran or disability status.

Minimum Qualifications

- PhD in Biomedical Informatics or a related field, such as, Computer science, Statistics, computational biology, or computational Chemistry.
- Strong interest in Bioinformatics and/or Cheminformatics.
- Experience working in computational drug discovery, particularly multiscale applications.
- Experience working in Python and Bash.
- Understanding of machine/deep learning topics.
- Demonstrated analytical and critical thinking abilities.

Preferred Qualifications

- Advanced Python and Bash programming Skills.
- Proven experience developing and applying AI models, especially for Bioinformatics or cheminformatics applications.
- Experience with fine-tuning and/or developing LLMs.

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- Experience developing multiscale pipeline-or platform-level software for drug discovery, especially the CANDO platform.
- Deep understanding of drug discovery and development process and how software can be integrated at every stage.

Salary Range

\$60,000 - \$64,000

Special Instructions Summary

Is a background check required for this posting?

No

Contact Information

Contact's Name: Joseph Vacanti

Contact's Pronouns:

Contact's Title: Assistant to the Chair

Contact's Email: vacanti7@buffalo.edu

Contact's Phone: 716-888-4858

Posting Dates

Posted: 04/23/2025

Deadline for Applicants: Open Until Filled

Date to be filled: 06/16/2025

Contact Information

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

Contact

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