

Postdoctoral Researcher, Laboratory for Heteroepitaxial  
Growth of Functional Materials & Devices  
University at Buffalo, The State University of New York

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Posted Feb. 28, 2024, set to expire Aug. 4, 2024

<b>Job Title</b>	Postdoctoral Researcher, Laboratory for Heteroepitaxial Growth of Functional Materials & Devices
<b>Department</b>	Chemical & Biological Engineering
<b>Institution</b>	University at Buffalo, The State University of New York Buffalo, New York
<b>Date Posted</b>	Feb. 28, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Chemical/Petroleum Bioengineering (all Bio-related fields)
<b>Job Website</b>	<a href="https://www.ubjobs.buffalo.edu/postings/48521">https://www.ubjobs.buffalo.edu/postings/48521</a>

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**Job Description**

Position Summary

We are seeking a Postdoctoral Researcher. In this position, you will:

- conduct heteroepitaxial growth of functional materials using Pulsed Laser Deposition techniques and optimize conditions for growth
- investigate incorporation of controlled nanostructures of within device layers to optimize physical properties

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- physical property characterization such as transport and magnetic properties (using a PPMS system) of grown materials and films

Candidates will also be considered for a volunteer Research Assistant Professor position.

### **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 UB**

The University at Buffalo is SUNY's most comprehensive public research university, and an outstanding place to work. UB amplifies ambition for faculty and staff by offering endless possibilities to achieve more. Here, people from all backgrounds and cultures challenge and inspire each other to discover, learn and succeed. Dedicated staff and engaged faculty collaborate to further knowledge and understanding, and develop tenacious graduates who are valued for their talents and their impact on global society. Visit our [website](#) to learn more about the University at Buffalo.

University at Buffalo is an affirmative action equal opportunity employer and, in keeping with our commitment, welcomes all to apply including veterans and individuals with disabilities.

### **Minimum Qualifications**

- Doctorate in a relevant science or engineering discipline
- A strong record of research publication
- Ability to work independently is required

### **Preferred Qualifications**

- Two years research experience related to heteroepitaxial growth high-temperature superconducting REBCO materials using Pulsed Laser Deposition techniques and experience with optimizing nanostructures for flux-pinning
- Two years prior work experience in a postdoctoral position is highly desired
- Significant experience with superconducting transport and magnetic property measurements using a PPMS system

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- Experience in writing grant proposals

### **Contact Information**

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

### **Contact**

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