

**Postdoctoral Associate
University at Buffalo**

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Posted May 7, 2025, set to expire Aug. 4, 2025

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

Date Posted May 7, 2025

Application Deadline 05/05/2026
Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Physics - General

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Job Description

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Postdoctoral Associate

Position Information

Position Title: Postdoctoral Associate

Department: Physics

Posting Link: <https://www.ubjobs.buffalo.edu/postings/56983>

Job Type: Full-Time

Posting Detail Information

Postdoctoral Associate University at Buffalo

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Position Summary

As a postdoctoral research associate in the department of Physics, this position will support the research program of Prof. Nie (PI)s projects focusing on investigating novel organo-inorganic hybrid semiconductors for photo sensing applications. In particular, we will grow novel low dimensional hybrid single crystal materials, such as organo-inorganic structures, chiral structures and nanocrystals. We will investigate their photo-physical properties with optical spectroscopy (photoluminescence, raman spectroscopy) and photocurrent microscopy (photocurrent under polarized light) to understand the charge carrier dynamics and charge transfer across the interfaces.

Job duties will include, but are not limited to:

- Assemble and characterize opto-electronic devices with low dimensional hybrid single crystals
- Build interfaces with organic materials and 2D materials and investigate the charge transfer dynamics
- Test the photon sensing efficiencies to radiation photon and polarized photons.
- Participate in proposal writing
- Work with the PI to supervise junior graduate students

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](#).

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

- The candidate must have a Ph.D. degree in Physics, Material Science or a closely related discipline
- Have basic understanding about the electronic properties of semiconductors
- Understand the principles of optical characterization tools for semiconductors and electronic devices

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Preferred Qualifications

- Labview, MATLAB programming skills
- Hands-on experiences of operating a glovebox, vacuum chamber for film growth
- Hands-on experiences of growing materials from solution methods.
- Hands-on experiences of laser alignment, optical characterizations.

Physical Demands

Salary Range

\$52,000 - \$58,000

Special Instructions Summary

Is a background check required for this posting?

No

Contact Information

Contact's Name: Wanyi Nie

Contact's Pronouns:

Contact's Title: Associate Professor

Contact's Email: wanyinie@buffalo.edu

Contact's Phone: 716-645-6730

Posting Dates

Posted: 05/05/2025

Deadline for Applicants: Open Until Filled

Date to be filled: 09/01/2025

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Contact Information

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

Contact

N/A

University at Buffalo

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