

Associate or Full Professor of Empire Innovation,  
Experimental Condensed Matter Physics  
University at Buffalo

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<b>Job Title</b>	Associate or Full Professor of Empire Innovation, Experimental Condensed Matter Physics
<b>Department</b>	Physics
<b>Institution</b>	University at Buffalo Buffalo, New York
<b>Date Posted</b>	Oct. 6, 2025
<b>Application Deadline</b>	10/03/2026
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Associate Professor Professor
<b>Academic Field(s)</b>	Physics - Condensed Matter/Low Temperature Physics - General
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**Job Description**

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**Associate or Full Professor of Empire Innovation, Experimental Condensed Matter Physics**

**Position Information**

**Position Title:** Associate or Full Professor of Empire Innovation, Experimental Condensed Matter Physics

**Department:**

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Physics

**Posting Link:** <https://www.ubjobs.buffalo.edu/postings/59432>

### Posting Detail Information

#### Position Summary

The [Department of Physics](#) at the University at Buffalo (UB), The State University of New York (SUNY), is seeking to fill a senior faculty Empire Innovation hire at the **Associate or Full Professor level** in experimental condensed matter physics. This strategic hire is part of a multi-year, multi-faculty recruitment effort in quantum science and technology supported by the Dean of the College of Arts and Sciences, the Dean of the School of Engineering and Applied Sciences, the Office of the Provost, and the State of New York. This position will hold the title of SUNY Empire Innovation Professor and is partially supported by [SUNY's Empire Innovation Program](#) flagship initiative designed to recruit and retain exceptional faculty with nationally recognized records of research and scholarship in strategically important fields.

The successful candidate is expected to build an active, externally funded research program in the general area of quantum sensing. We are particularly interested in candidates with expertise in the physics of sensing and its application in studies of quantum materials. This includes, but is not limited to, research on: magnetometry with atomic defects, quantum thermometry, entanglement-enhanced sensing, biosensing, and quantum-enhanced spectroscopy. We also welcome applications from candidates with research interests overlapping with both quantum sensing and quantum communication.

The ideal candidate will be a nationally/internationally recognized research leader in quantum sensing, with a proven publishing and external funding record (or research leadership in industry). They should demonstrate strong ties with other leading researchers in academia, government labs, and/or industry. The successful candidate should additionally have a strong background in teaching at the undergraduate and graduate levels, as well as in student mentoring.

The EIP Professor will join a dynamic and expanding Department of Physics with growing strengths in both experimental and theoretical quantum science. The department has recently welcomed seven new faculty members (2022-2025) specializing in areas such as MBE growth of quantum materials, neutron scattering, quantum optics, novel semiconductors, and quantum information science. It is home to 10 NSF CAREER award winners and has seen its sponsored research expenditures increase by over 50% in the past five years, aligning with UB's institutional ambition to double its research expenditures. UB is also the home for [Empire AI](#) the New York State-based research consortium

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backed by over \$500 million in public and private funding.

Inquiries about this position can be directed to Professor Hao Zeng at [haozeng@buffalo.edu](mailto:haozeng@buffalo.edu) or Professor Herbert Fotso at [hffotso@buffalo.edu](mailto:hffotso@buffalo.edu).

All job applications should be submitted via UB Jobs. Following is the link:

<https://www.ubjobs.buffalo.edu/postings/59432>. The position is open until filled, with an initial application deadline of December 10.

*Learn more:*

- Our [benefits](#), where we prioritize your well-being and success to enhance every aspect of your life.
- Being a part of the [University at Buffalo community](#).

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

- PhD in Physics or related discipline
- Scholarly profile appropriate to rank

### Preferred Qualifications

The ideal candidate will be a nationally/internationally recognized research leader in quantum sensing, with a proven publishing and external funding record (or research leadership in industry). They should demonstrate strong ties with other leading researchers in academia, government labs, and/or industry. The successful candidate should additionally have a strong background in teaching at the undergraduate and graduate levels, as well as in student mentoring.

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**Physical Demands**

**Salary Range**

Competitive

**Job Type**

Full-Time

**Special Instructions Summary**

- Review of applications will begin December 10, 2025. The position is open until filled with anticipated start fall 2026.
- Applicants should submit a CV, Cover Letter, Research Statement and Teaching Statement.
- All application materials must be submitted via UB Jobs. Application materials submitted directly to the posting contact will not be acknowledged and cannot be considered.

**Is a background check required for this posting?**

No

**Contact Information**

**Contact's Name:** Hao Zeng

**Contact's Pronouns:**

**Contact's Title:** Professor of Physics, Search Committee Co-chair

**Contact's Email:** haozeng@buffalo.edu

**Contact's Phone:** 716-645-2946

**Posting Dates**

**Posted:** 10/03/2025

**Deadline for Applicants:** Open Until Filled

**Date to be filled:** 08/18/2026

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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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