

Postdoctoral Associate, Engineering Education  
University at Buffalo, The State University of New York

Direct Link: <https://www.AcademicKeys.com/r?job=231848>

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Posted Feb. 29, 2024, set to expire Aug. 4, 2024

<b>Job Title</b>	Postdoctoral Associate, Engineering Education
<b>Department</b>	Engineering Education
<b>Institution</b>	University at Buffalo, The State University of New York Buffalo, New York
<b>Date Posted</b>	Feb. 29, 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>	Engineering - Other
<b>Job Website</b>	<a href="https://www.ubjobs.buffalo.edu/postings/48418">https://www.ubjobs.buffalo.edu/postings/48418</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

### Position Summary

**The Department of Engineering Education (DEE)**, in the School of Engineering and Applied Sciences invites candidates to apply for the position of **Postdoctoral Associate**. The successful candidate will work as a postdoctoral scholar with Dr. Corey Schimpf, collaborating on and taking the lead on research themes around:

1. Analyzing how expertise develops in engineering design across the continuum from novice pre-college students to practicing engineers;
2. Advancing engineering design research by integrating new theoretical or analytical frameworks (e.g., from data science or complexity science); and
3. Conducting design-based research to develop scaffolding tools for supporting the learning

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of complex skills like design. Specific projects the successful candidate will have an opportunity to work on include studying front-end design skill development in middle and high school students undertaking Earth science and community oriented design projects, exploring how elementary students learn engineering design, collaboration and socio-emotional learning skills through an augmented reality game and creating new ways to scaffold their learning, and investigating how increased agency and power or influence in projects affects more senior engineering undergraduates development.

The successful candidate will support ongoing research endeavors in the described areas through:

- Execution and/or supervision of data collection, quantitative and/or qualitative data analysis and scholarly writing and dissemination.
- Coordinating and/or supervising research, curriculum development and professional development efforts
- Development of data collection instruments
- Submission of research protocols for ethics review
- Mentoring graduate and/or undergraduate students

### **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.

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### **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](#).

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.

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### Minimum Qualifications

- Ph.D. in Engineering Education, Science Education, Education, Design, or related field
- Experience with researching or teaching engineering design at any level
- Experience with quantitative and/or qualitative research methods
- Excellent writing and communication skills
- Ability to work independently, provide leadership to an interdisciplinary team and understand different perspectives of stakeholders
- Ability to work on campus

### Contact Information

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

### Contact