

Postdoctoral Associate, Chemical & Biological  
Engineering  
University at Buffalo

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Posted Sep. 12, 2025, set to expire Aug. 4, 2026

<b>Job Title</b>	Postdoctoral Associate, Chemical & Biological Engineering
<b>Department</b>	
<b>Institution</b>	University at Buffalo Buffalo, New York
<b>Date Posted</b>	Sep. 12, 2025
<b>Application Deadline</b>	09/11/2026
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Chemical/Petroleum Biomedical Engineering & Bioengineering
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**Job Description**

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**Postdoctoral Associate, Chemical & Biological Engineering**

**Position Information**

**Position Title:** Postdoctoral Associate, Chemical & Biological Engineering

**Department:** Chemical & Biological Engineering

**Posting Link:** <https://www.ubjobs.buffalo.edu/postings/58811>

**Job Type:**

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Full-Time

## Posting Detail Information

### Position Summary

#### **Postdoctoral Associate Opportunity: From Waste Tires to Electrode Materials for Batteries and Supercapacitors**

The Department of [Chemical & Biological Engineering](#) has an excellent opportunity for a **Postdoctoral Associate** in the Amit Goyal research group to conduct applied research in synthesis, device fabrication and characterization of Na-ion based batteries and supercapacitors using carbon electrodes derived from waste tires.

The work involves:

- Developing novel methodologies for extracting activated carbon from waste tires
- Fabricating coin cells
- Performing full electrochemical characterization towards realizing performance approaching the best reported performance for Na-ion batteries.
- In addition, the project involves design and fabrication of supercapacitors from tire-derived carbon and having high performance.
- It is expected that the Postdoctoral Associate will work independently, establish all experimental processes and instrumentation for the work.

**Visa status:** Current US residents preferred. For overseas residents, we can sponsor for J-1 exchange visa

**Term:** 2-3 years depending on performance

### ***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](#).

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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

- Education: Ph.D. in chemistry, materials science, chemical engineering, mechanical engineering, or a related field completed within the last five years, or soon to be completed, is required.
- Prior battery fabrication and electrochemical device characterization
- Prior supercapacitor fabrication and electrochemical device characterization
- Experience with advanced materials characterization techniques
- Strong motivation and ability to work independently

### Preferred Qualifications

- Ph.D research in battery fabrication with knowledge of supercapacitor fabrication
- One-year postdoctoral experience in battery fabrication and characterization.
- Prior experience working on batteries/supercapacitors with carbon derived from waste. tires
- Good experience with electronics and typical laboratory test instruments

### Physical Demands

### Salary Range

\$50,000

### Special Instructions Summary

- Please contact over email, not through the phone number

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

No

**Contact Information**

**Contact's Name:** Joan Wilson

**Contact's Pronouns:**

**Contact's Title:** Director of Administration

**Contact's Email:** [jmwilson@buffalo.edu](mailto:jmwilson@buffalo.edu)

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**Posting Dates**

**Posted:** 09/11/2025

**Deadline for Applicants:** Open Until Filled

**Date to be filled:** 11/01/2025

**Contact Information**

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

**Contact**

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N/A

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