Postdoctoral Associate, Chemical & Biological Engineering
University at Buffalo

Job Title	Postdoctoral Associate, Chemical & Biological Engineering
Department	
Institution	University at Buffalo Buffalo, New York
Date Posted	Sep. 12, 2025
Application Deadline	09/11/2026
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Chemical/Petroleum Bioengineering (all Bio-related fields)
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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:

Postdoctoral Associate, Chemical & Biological Engineering
University at Buffalo

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

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Contact's Title: Director of Administration
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Contact's Phone: 716-645-1174

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

Postdoctoral Associate, Chemical & Biological Engineering
University at Buffalo

N/A

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