

Jolt Energy Technologies
242 Howard Ave.
Holland, MI 49424
616.395.8954



Jolt Energy Storage Technologies
Senior Research Chemist

Qualifications/Position Requirements

- PhD (preferred) or MS with at least three years of industrial experience in Chemistry, Materials Science, Electrochemistry, or Chemical Engineering with demonstrated experience in electrochemistry and/or energy storage fields.
- Must be authorized to work in the US.
- Laboratory experience in polymer chemistry and electrochemical techniques is required.
- Experience with UPLC, MS, NMR, XRF, voltammetry, GPC, DCS, TGA, FTIR, UV-Vis and other analytical techniques is highly desirable.
- Demonstrated background with formulation and extrusion polymer systems is desirable
- Knowledge of organic redox flow battery systems is a plus.
- Excellent written and oral communication skills and demonstrated ability to manage multiple projects and work as part of a cross-disciplinary, collaborative team.
- Excellent problem-solving skills.
- Ability to remain highly organized in a fast-paced environment, identifying lab needs, tracking project timelines.

Position Description

Jolt Energy Storage Technologies is a startup focused on the development of nonaqueous redox flow batteries for grid-level applications. We aim to revolutionize stationary energy storage by providing an inexpensive, reliable, and environmentally friendly means of energy storage that will foster and support the adoption of renewable energy sources on the grid.

We are seeking a talented and enthusiastic person to join our team as a Senior Research Chemist. The primary role of this person will be to develop access towards redox-active polymeric materials, evaluate and enhance performance of semi-permeable separator membranes, collaborate with the team to define research strategies to achieve performance targets, provide electrochemistry support, track and communicate status of deliverables, and provide technical supervision to 2-4 BSc-level research scientists. The role is a salaried position with an expectation of 40 hours/week onsite at our Holland, MI research facility.

Responsibilities

- Coordinate with other lab chemists to design and execute projects.
- Design, synthesize, and evaluate polymeric material formulations for application in membranes and redox active materials.
- Assess and tailor the efficiency of membranes in electrochemical cells for optimal performance using various analytical techniques (e.g. FTIR, UV-Vis, EIS, etc.).
- Prepare sensitive solution formulations, assemble electrochemical cells (e.g., H-Cells, redox flow battery stacks, coin cells) and evaluate performance and stability of redox-active polymers by various electrochemical techniques (e.g., bulk electrolysis, galvano- and potentiostatic cycling, electrochemical impedance spectroscopy, etc.).

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- Track project progress and deliverables. Deliver daily and weekly updates demonstrating clear and concise written/verbal communication, strong organization skills, and attention to detail.
- Demonstrate a strong safety mindset and comply with safety standards and procedures.
- Provide technical supervision for several BSc-level chemists.
- Be flexible to support the changing needs of a small organization as we grow.

Benefits

- Health care coverage
- Dental coverage
- Vision coverage

Compensation

- Salaried position with onsite lab expectations: Salary will be dependent on candidate's experience and capabilities.
- 3 weeks' Vacation + Holidays

Equal Employment Opportunity Statement

As an equal employment opportunity employer, Jolt is committed to a diverse and inclusive workplace that fosters collaborative scientific discovery and innovation. In support of this commitment, we encourage applications from minorities, women, veterans, individuals with disabilities, and other underrepresented groups. Jolt fully considers all qualified applicants for employment without regard to age, ethnicity, disability, gender, gender identity, race, religion, sexual orientation, or any other characteristic protected by law.

This position complies with all applicable legal requirements in Michigan.

Application Process

Please send a cover letter and resume to Dr. Tom Guarr (CTO) at tom.guarr@jolt-energy.com.