

Scientist, Electrochemistry for Electrode and Electrolyte Development

Company Overview:

Pellion Technologies is an early-stage company developing an innovative energy storage solution with the potential to deliver substantially lower cost and higher energy density than current lithium ion systems. Pellion, based in the Boston, MA area, is backed by top-tier venture capital and a recent award from the U.S. Department of Energy to develop next-generation batteries. We are seeking outstanding, driven individuals to join our team and realize Pellion's revolutionary technology.

Position Overview:

Conduct research, development, and qualification of electrolyte formulations. An ideal candidate has an extensive background in the characterization of intercalation compounds and solid-liquid interfaces combining electro-analytical (e.g. CV, PITT, EIS), chemical (e.g. ATR-IR, XPS), and physical (e.g. SEM) methods. A background in the development and testing of battery electrodes, electrolytes, electrolyte additives, and/or electrode/electrolyte interactions, is preferred. We are seeking self-motivated, creative, and detail-oriented team players who enjoy working in a fast-paced, start-up atmosphere.

Key Responsibilities:

- Design and implement a strategy to rapidly characterize the electrochemical stability of electrolyte formulations.
- Identify and characterize the nature of surface reactions, products, and correlate their presence to the electrochemical response.
- Provide quantitative insight to the team regarding electrolyte stability and reactivity.

Qualifications:

- PhD in **Physical Chemistry, Electrochemistry, or a related field** with 3 – 5 years industrial experience or an MS with 5 – 10 years industrial experience. Postdoctoral experience may be considered in lieu of industrial experience.
- A demonstrated ability to correlate the electrochemical response to electrode properties and electrode-electrolyte surface reactions.
- Experience in the characterization and development of lithium ion electrolytes and additives, and/or characterization of ionic liquids, and/or electrodeposition of reactive metals.
- Strong written and oral communications skills.

Pellion Technologies offers competitive compensation and benefits packages, including equity.

Please include this position title in the subject line, and submit your resume and supporting documentation to: jobs@pelliontech.com