



## Associate R&D Engineer

Company: **Energy Storage Systems**

Location: **Wilsonville, OR**

### Company Profile

Energy Storage Systems (ESS) is a fast-growing, clean technology company, located in Wilsonville, OR. ESS has developed an advanced flow battery technology for commercial, industrial, and utility applications. With a team that boasts decades of experience in distributed power generation and energy storage technologies, ESS has developed an extremely cost-effective energy management system that combines a safe, abundant and non-toxic iron electrolyte with our patented flow cell design. This combination of high performance with low cost means that ESS's technology is ideally suited for applications that range in size from retail energy management to utility-scale renewables integration.

### Position Profile

The ideal candidate will have a passion for sustainability and the environment, will thrive in a fast-paced entrepreneurial setting, be self-motivated and have an interest in disruptive, cutting edge technology. The ideal candidate is someone who understands the culture, the rigor and the challenges of a start-up environment.

### Responsibilities

- Build and test chemical reactors of various sizes and capacities. Develop procedures and standard test protocols for manufacturing. Able to troubleshoot, collect and analyze data and present test results to the engineering team.
- Construct and perform reliability tests on various key system components.
- Conduct innovative research projects aiming to optimize performance and reliability.
- Conduct material endurance and compatibility tests to aid system material selections.
- Run design validation tests and perform analyses afterwards to guide design goals for improved battery performance and reliability.
- Develop and optimize chemical processes for flow batteries and reactors of different scales.
- Develop manufacturing strategies for component cost reduction.

## Requirements

- Bachelor's Degree or higher in ChE, Chemistry, Physics, Material Science or Mechanical Engineering.
- Demonstrated knowledge of the chemical process engineering principals in a fuel cell or battery industry.
- Electrochemistry skills and knowledge are preferred - wet chemistries and reactions, interactions and material behaviors.
- Good interpersonal and communication skills to work effectively with a small, dynamic team responsible for product development.
- U.S. Citizenship or permanent work visa