# Associate R&D Engineer @ ESS Tech. Inc.

## 1.0 Job Description

- 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.

## 2.0 Desired Skills & Experience

- 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

## 3.0 Company Description

ESS Tech. Inc. is developing a novel flow battery technology for commercial, industrial, and utility applications. By combining inexpensive and abundant electrolyte materials with our next generation cell design, ESS is creating a cost effective and reliable battery designed to work in conjunction with the modern electric grid. This will give electricity consumers an easily incorporated means of reducing their electricity costs and provide utilities with a flexible option for integrating renewable energy sources and improving grid stability.