

Senior Chemical Engineer

Location: Metropolitan Boston, MA.

If you are interested in working with a fast-moving emerging company in clean tech and you meet the qualifications described below, please send your résumé and cover letter to kathryn.graves@sienergysystems.com.

About SiEnergy Systems

SiEnergy Systems is a Harvard University spin-off commercializing novel nanometric thin film solid oxide fuel cell (SOFC) technology. The technology uses micro-fabrication methods to create SOFCs with nanometer scale electrolytes that operate at a commercially advantageous temperature, and are scalable to meet various power requirements. SiEnergy is currently in the process of moving from its Harvard University incubator to an independent location in the Boston Metropolitan Area in an expansion of its development activities. SiEnergy is an equal opportunity employer, and offers competitive salaries and benefits.

Job Description

In this position, the individual will be responsible for developing a reformer for SiEnergy's novel low temperature solid oxide fuel cells. The position is hands-on, involving cutting edge research work in developing inexpensive and compact fuel reformers operating at 350-550 °C, in collaboration with Principal Scientist. This position requires strong technical skills, and the ability to independently perform in-depth problem solving. The individual must enjoy playing a key role in a challenging, fast moving, and competitive environment.

Qualifications

- MS degree in Chemical Engineering, Chemistry or other relevant disciplines with 10+ years work experience, or PhD in above fields with 7+ years work experience.
- Work experience must include 5+ years in fuel cell or related experience. SOFC experience is a plus.
- Experience in developing fuel processing units, including hands-on experience in gas chromatography, mass spectroscopy, and scanning electron microscopy. Ethanol fuel processing unit experience is a plus.
- Strong knowledge of catalyst materials, reaction kinetics, and various degradation mechanisms. Solid grounding in thermodynamics, electrochemistry, and materials science.
- Understanding and familiarity with small stationary fuel cell system design and integration is a plus.
- Ability to independently perform and prioritize various tasks to meet deadlines.
- Team-oriented individual with excellent communication and inter-personal skills.