



EC Power
200 Innovation Blvd.
State College, PA 16803
<http://www.ecpowergroup.com>

Job Title: Battery Modeling Engineer

About EC POWER

EC POWER is a leading provider of battery and fuel cell solutions for vehicle electrification, renewable energy storage, and power grid management. Headquartered in State College, Pennsylvania, EC Power's proprietary design tools and patented technologies enable a new generation of batteries and fuel cell systems with significantly lower cost. For more information, please visit www.ecpowergroup.com.

We are looking for a high-energy, creative, and ambitious engineer to join our team. We offer competitive pay, a fun work environment, and the opportunity to work at a high-growth technology company that collaborates with several Fortune 500 companies. EC POWER is a leading developer of computer codes for multiscale, multiphysics analysis of automotive and large-format batteries and fuel cells with a worldwide customer base. We are recruiting a Battery Modeling Engineer to work with our product development engineers, using our current and future lithium-ion battery and fuel cell software packages for internal and external customer applications. Legal authorization to work in the US is required.

Job Description

As a Battery Modeling Engineer with EC POWER, your essential duties will be to carry out and take ownership of activities such as:

- taking a leading role in our internal model development, creating commercial computer software for lithium ion batteries, fuel cells, and other electrochemical devices
- applying our Li-ion and fuel cell software to our clients' pressing problems and rapidly solving these problems
- working with our partners and clients as a technical expert, to help address pressing technical needs
- helping to prepare documentation and user manuals
- marketing and selling our commercial products at conferences, trade shows, and other venues
- other related duties

Required Qualifications:

- Ph.D. in Mechanical Engineering, Chemical Engineering, or related fields
- In-depth understanding of Li-ion battery fundamentals and electrochemical modeling
- Ability to work independently to solve critical problems of clients in the battery industry
- Experience with and understanding of operation of HEVs, PHEVs, EVs and/or other electrochemical systems and devices.
- Excellent personality with the ability and desire to work hand-in-hand with clients to address their pressing technical needs in a timely fashion
- 2-5 years of experience in Li-ion battery modeling
- Good communication skills and the ability to work in a team environment

Preferred Qualifications:

- Understanding of advanced numerical algorithms
- Programming experience with C, C++, and FORTRAN

Contact

Interested applicants should send a cover letter and resume to careers@ecpowergroup.com with the words "Battery Modeling Engineer" in the subject line. Fresh Ph.D. graduates are encouraged to apply only if they have strong publications related to Li-ion battery modeling in reputable journals. We will contact only those applicants selected for interviews.