



EC Power  
341 N. Science Park Rd.  
State College, PA 16803  
<http://www.ecpowergroup.com>

**Job Title: CFD Applications 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](http://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 CFD Applications Engineer to work with our model development research engineers, using our current and future lithium-ion battery and fuel cell software packages for internal and external customer applications. Prior expertise in battery and fuel cell technologies is not required, but applicant must be eager and willing to quickly develop an expertise in these areas. Legal authorization to work in the US is required.

**Job Description**

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

- using our Li-ion and fuel cell software to solve internal and external client problems
- working with our partners and clients in a technical support role, to help troubleshoot technical and software issues which may arise
- assisting our model development and research staff in designing and creating commercial computer software for lithium ion batteries, fuel cells, and other electrochemical devices
- working with EC Power engineers and scientists, as well as directly with clients, to understand customer wants and needs; helping decide how to adapt the software and its pre- and post-processing to meet customer wants and 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:**

- M.S. in Mechanical Engineering, Chemical Engineering, or related fields
- Strong prior experience in CFD and industrial experience in CFD industry
- Strong skills in CFD mesh generation
- Ability to work independently to solve critical problems of clients in the battery industry
- Good communication skills
- Excellent personality with the ability and desire to network
- Programming experience with C, C++, and FORTRAN

**Preferred Qualifications:**

- Ph.D. in Mechanical Engineering, Chemical Engineering, or related fields
- Experience with and understanding of operation of HEVs, PHEVs, EVs and/or other electrochemical systems and devices.
- Understanding of advanced numerical algorithms

**Contact**

Interested applicants should send a cover letter and resume to [careers@ecpowergroup.com](mailto:careers@ecpowergroup.com). We will contact only those applicants selected for interviews.