

Position Title: Research & Development Engineer
Location: Chicago, IL
Reports To: Chief Operating Officer

Detailed Duties:

- Formulate battery electrode materials
- Perform synthesis and purification of materials, including graphite, silicon, graphene, and graphene oxide
- Source commercial electrode materials and utilize benchtop and pilot-scale coating equipment to formulate electrodes for Li-ion cell assembly
- Source equipment to complete buildout of new cell assembly and testing facility
- Complete coin and pouch cell testing and generate insights from cycling data analysis
- Manage 1-2 lab interns and technician to assist with materials formulation
- Collaborate with research team to support next generation formulation efforts
- Publish and communicate research results as required

Candidate Requirements:

- Prior materials research experience with powders, suspensions, and/or nanomaterials. Experience with graphene and silicon materials a plus
- Meticulous and thoughtful experimenter
- Capable of collaborating effectively with a small research team
- Proficient in data analysis using excel
- Excellent writing / verbal communication skills
- Quick learner and adaptable to fast-paced work environment
- Passionate, ambitious, and personable

Additional Desirable Attributes

- Characterization experience with the following instruments: TGA, SEM, TEM, XPS
- Academic research paper writing experience

Qualifications & Experience

- MS or PhD in Chemistry, Chemical Engineering, Electrochemistry, Materials Science or closely-related field preferred
- Experience with novel battery materials (e.g. silicon, graphene) preferred