

Job Title: Polymer Scientist

Dept: Materials

Reports To: Director of Material Development

SUMMARY:

Plans, formulates and performs research and development activities on polymer film coatings required for the development electrodes of Li-S battery cells. Conducts experiments, analyzes data and summarizes in order to present recommendations for product improvement. Will interact and collaborate with other groups and departments within the company and in outside laboratories.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Develop and implement processes and procedures for polymer and gel-polymer coatings, preparation, and characterization.
- Develops and implements new equipment and new experimental set-ups, develops formulas, processes, and methods for solution of technical problems.
- Review, analyze and report data to individuals within the material department and others within the company.
- Maintain research and development laboratory equipment and material inventories needed for experimental work. Propose new equipment purchases as required.
- Knows and follows safety practices in all areas of the workplace.
- Other duties may be assigned.

QUALIFICATIONS:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

EDUCATION and/or EXPERIENCE:

PhD in Polymer Chemistry, Chemical Engineering or Polymer Processing. Minimum three (3) years professional experience with polymer chemistry or polymer processing including direct experience with three or more of the following specializations:

- UV, e-beam and chemically initiated Polymerization processes.
- Operation of UV, e-beam and web-coating equipment.
- Polymer films processing and roll-to-roll web-coating.
- Polymers films physical and chemical characterization.
- Polymer electrolytes preparation, characterization and battery application.

COMPUTER LITERACY:

Must exhibit fluency in PC usage including MS Windows environment with including word processing, spreadsheets, databases and program management.

LANGUAGE SKILLS:

Ability to speak and understand English in a manner that is sufficient for effective communication with supervisors, employees, beneficiaries and customers, based on the assumption that such individuals can only speak and understand

English.

MATHEMATICAL SKILLS:

Must have mathematical skills at graduate university level.

REASONING ABILITY:

Must be able to solve problems, generate ideas and set tasks.

PHYSICAL DEMANDS:

While performing the duties of the job, the employee will be required to regularly use a PC, telephone, fax machine, copy machine, lift objects, speak, hear, and write. The employee may need to work in a dry room (~-60 °C Dew Point) for extended periods of time. The employee may be required to handle and transport packaged chemicals and/or work with potentially hazardous and/or toxic chemicals, with appropriate protective clothing, apparatus and training. The employee should be able to lift and move 25 pounds and could be called upon to lift or move up to 50 pounds on occasion. Specific vision abilities required by this job include close and peripheral vision, depth perception, and the ability to adjust focus.

WORK ENVIRONMENT:

The Candidate will be immersed in a fast paced, ever changing environment. This person must be able to adapt quickly, meet deadlines and goals, and interface with all levels of employees both internal and external to the company. While performing the duties of this job, the person will occasionally work near hazardous and/or toxic chemicals, energized electronic equipment, and office machines in laboratory, production and office environments.

US citizens/ Green card holders only (sorry no visas).

This position is located in Tucson, AZ and the company will provide

relocation assistance.

Thank you very much in advance for your assistance. If there is any more information we can provide you with, please just ask.

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