

SION POWER CORPORATION

Job Posting

Job Title: **Vacuum Deposition Engineer**

Department: **Anode Development**

Sion Power, the global leader in the development of a new generation of high-energy, rechargeable lithium batteries for portable power is currently searching for a **Vacuum Deposition Process Engineer** to be based at its research and development facility in Tucson, Arizona. Sion's exciting new technology is based on the elements lithium and sulfur which combined yield a battery system with the highest theoretical gravimetric and volumetric energy densities of any battery couple and offer significant improvements in performance over current rechargeable batteries.

SUMMARY

This position will conduct vacuum web coating process development work related to vacuum deposited lithium for use in lithium sulfur batteries. Additionally, the successful candidate will assist in the base-lining and process development of a new vacuum web coater for multi-layer coatings and assuming primary responsibility for process development on the new coater.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Operate and oversee operation and maintenance of vacuum systems and vacuum web coating systems.
- Primary responsibility for daily operation of the new prototype production vacuum chamber including responsibility for the new prototype production coater by scheduling experiments, operating and maintaining the equipment, maintaining inventory levels and directing a staff of technicians and engineers.
- Review results, with consultation with team members, develop and implement process improvement plan to optimized anode performance in accordance with company goals.
- Work with external vendors when necessary.

EDUCATION AND EXPERIENCE

Bachelor's degree in Materials Science, Engineering, Physics or related discipline required with at least five (5) years work experience in research and development in the field of vacuum deposition. This includes sound technical background and knowledge of basic chemistry, materials science and physics with fundamental skills in carrying out and interpreting chemical analysis and characterizations of materials and coatings. Must be capable of performing independent data analysis including ability to make observations, apply reason, draw scientific conclusions and make appropriate recommendations.

Preferred Skills Include: Experience in vacuum coating system design, modification, maintenance and safety with particular emphasis on thermal evaporation, DC and RF sputtering, and plasma treatment technologies along with reactive deposition processes in general.

TRAVEL

Some travel may be required in order to carry out the Essential Duties and Responsibilities as listed above.

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. This position also requires the ability to present information and data to large groups of people.

COMPUTER LITERACY

The Candidate must be fluent in the use of personal computers for the standard office automation tasks (MS Windows environment and word processing, spread sheet, electronic mail, project management and presentation software)

REASONING ABILITY

Strong analytical and reasoning skills are required with the ability to analyze diverse data streams and integrate the knowledge gained into the corporate knowledge base and then plot the most efficient path toward the goal. Clear thinking and honed reasoning and analytical skills are absolutely essential to do this successfully.

PHYSICAL DEMAND

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 6 or more hours a day at times. The employee may be required to handle and transport packaged chemicals. Working with potentially hazardous and/or toxic chemicals, with appropriate protective clothing and apparatus, though infrequent, is required. 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 and manufacturing equipment, and office machines in both laboratory and office environments.

Tucson is Arizona's second largest city and is the hub of activity and commerce for southern Arizona, one of the fastest growing states in the U.S. The metropolitan Tucson area has a population of 1 million people, is home to the University of Arizona and a center for optic, biotech and other high technology research and industries. Sion Power Corporation is a spin-off of Brookhaven National Laboratories.

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