

# SION POWER CORPORATION

## Job Description

Job Title: Material Science/Coating Junior Engineer  
Department: Materials Development

### **SUMMARY**

Position responsible for cathode development in the materials department fabricating prototype cathodes in support of research and development activities. This includes producing, testing, reporting and documenting a variety of experiments while developing new mixing and coating processes for cell designs to meet product requirements and specifications.

### **ESSENTIAL DUTIES AND RESPONSIBILITIES**

- Develop mixing and coating processes and formulations for electrodes; perform experiments and trials to verify results; document and implement process improvements.
- Evaluate mixing and coating equipment and tooling for improvement of electrode manufacturing and processing.
- Compile, store, retrieve and analyze mix/coat parametric test data, analyze and create recommendations or provide data to the requestor.
- Review mix/coat reports and assist with resolution of fabrication and maintenance problems to ensure cost effective utilization and prevent delays in the R&D effort.
- Ensure machines and equipment meet operational performance and are utilized efficiently.
- Ensure work practices and activities are safe; observes co-workers to ensure compliance with environmental, safety and health standards.
- Analyze staffing, equipment, supplies and process technology requirements in the department and recommend improvements as needed. May be responsible for implementing these improvements as approved.
- Other duties as assigned.

*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. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

### **EDUCATION and EXPERIENCE**

Bachelors degree in material science, chemical engineering or other related technical area with 2 years of industrial or research experience in mixing and/or coatings industry.

### **LANGUAGE SKILLS**

Must possess 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 includes the ability to present information and data to small and mid-sized groups of people.

### **MATHEMATICAL SKILLS**

Ability to use statistical and math concepts as expected at the bachelor degree level.

### **PHYSICAL DEMANDS**

The employee must be capable of working in areas with chemicals or materials that may be considered hazardous while wearing all required personal protective equipment.

### **WORK ENVIRONMENT**

Individual will be required to work in an office sitting at a computer as well as in laboratory and an environmentally controlled dry room. Position includes working in controlled locations specifically where there is potential exposure to chemical, mechanical, and electrical hazards. The position may also require the handling of electrically charged cells and the ability to work quickly, accurately, and safely in this type of environment.

**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**