

# SION POWER CORPORATION

## Job Description

### Mechanical Engineer

**Sion Power Corporation**, the global leader in the development of a new generation of high-energy, rechargeable lithium batteries for portable power is currently searching for a **Mechanical Engineer** for 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.

In collaboration with the engineering team, this position will design and coordinate installation of required equipment and/or modifications for the development of vacuum deposition, web handling, coating and mixing process used for the production of Li-S battery cells. Incumbent will make recommendations for process development and help direct the design, procurement, fabrication, installation and process base-lining of all hardware related to manufacturing process. Also includes writing specification for new equipment and participating in the development of general equipment standards of the company.

#### **ESSENTIAL DUTIES AND RESPONSIBILITIES**

- Responsible for design, installation and commissioning of new equipment or modified components on existing equipment.
- Modify or improve cell-development and assembly equipment.
- Work with other departments to identify and minimize systemic production problems or bottlenecks.
- Assist in the development of preventive maintenance program for all equipment; develop critical spare parts list.
- Maintain work instruction documents.
- Provide training to operation and maintenance team.
- Other duties as assigned.

***To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.***

## **EDUCATION and EXPERIENCE**

Bachelor's degree in Mechanical Engineering or closely related field required with at least five (5) years of related manufacturing equipment design related experience. Must have extensive experience with solid modeling software, preferably SolidWorks. Experience with web handling, vacuum deposition and/or coating systems highly desired.

## **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. Ability to present information to small groups of people also required.

## **COMPUTER LITERACY**

The Candidate must be fluent in the use of personal computers for the standard office automation tasks (the windows environment and word processing, spread sheet, electronic mail, project management and presentation software) as well as for a variety of technical applications (CAD, CAD 3D, SolidWorks).

## **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 six or more hours a day. 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**

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 both laboratory and office environments.

## **TRAVEL**

Occasional travel to vendors may be required.

*Sion Power Corporation is an Equal Opportunity Employer/Affirmative Action Employer M/F/D/V.*

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

Interested parties should contact Human Resources at [HR@sionpower.com](mailto:HR@sionpower.com)