

SION POWER CORPORATION

Job Posting

Job Title: Analytical Chemist

SUMMARY

The primary responsibility of this position is to conduct analysis, chromatographic and electrochemical, and experimentation on batteries and battery components for product and process development. The position requires analytical method development and experimental design as well as interpretation of results. Good record keeping is essential.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Set up laboratory equipment and instrumentation required for tests, research, and process control with following instrumentation: GC-MS/FID/TCD, HPLC, FTIR, as well as electrochemical testing such as electrochemical impedance spectroscopy.
- Conduct chromatographic and electrochemical analysis of batteries and battery components as required. Electrochemical tests to determine conductivity, electrochemical stability, interfacial resistivity/impedance, self-discharge, polarization resistance and other characteristics.
- Devise and interface with new equipment and new experimental set-ups, develops formulas, processes, and methods for solution of technical problems.
- Document experiments and analyzes results of tests. Confer with scientists and engineers regarding research and prepare technical papers and reports. Prepare procedures and specifications for processes, products, and tests; maintain database of results.
- Sample preparation and synthesis of routine and specialized components; requires experience in working with oxygen and moisture sensitive materials.
- Maintain research and development laboratory equipment. Follow safety practices in all areas of the workplace, including safe handling and disposal of samples. Collects and disposes of hazardous waste according to approved standards.
- Adhere to and train others in the use of laboratory equipment, standard procedures and safe practices in the laboratory.

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/or EXPERIENCE

Bachelor's degree in Chemistry or related discipline with a minimum of 2 years lab experience or equivalent combination of education and experience which demonstrates the ability to perform the essential functions of the job.

COMPUTER LITERACY

Excel, Word, PowerPoint, and statistical software.

LANGUAGE SKILLS

Able to communicate effectively, both written and oral in English with the ability to present information to small and mid-sized groups of people.

MATHEMATICAL SKILLS

Equivalent to the completion of one year of university level calculus.

REASONING ABILITY

Commensurate with outlined duties and responsibilities.

PHYSICAL DEMANDS

Individual needs to be able to carry out writing, calculation, graphing, data analysis etc. with a personal computer for two (2) to six (6) hours each day if needed. He/she should be able to carry out work in an analytical laboratory (open air, or fume hood, or glove box) or dry room with personal protection equipment (goggles, masks, respirator, etc.) for four (4) to eight (8) hours each day. Be able to lift and carry up to 25 Lbs.

The individual has to be able to work quickly and effectively for entire workday. He/she will occasionally need to come to work early and/or stay late when required to finish tasks or meet deadlines. Job requires the ability to handle a variety of tasks and switch rapidly between them.

WORK ENVIRONMENT

Individual will be required to work in an office sitting at a computer as well as in the analytical laboratory and an environmentally controlled dry room. 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.

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