Ball, Bead Milling Operator and Engineer

Paraclete Energy, Inc.
-
Chelsea, MI

- **Paraclete is seeking a Milling Production Engineer**. This candidate preferably is a process, chemical or mechanical engineer with the minimum of 5 years of manufacturing of powders by ball and bead milling. Experience of scaling operations and product development is a plus. The candidate will be able to demonstrate the ability to operate and manufacture and dry such powders, operate, maintain and repair such equipment. The candidate will optimize processes for packaging, shipping and overall quality control.
- Having an attitude, capability and willingness to get things safely done in a way that delights customers and thereby meets company objectives is a big advantage.

Paraclete Energy, Inc. located outside of Ann Arbor Michigan in the city of Chelsea, Michigan is establishing itself as the leading supplier of high capacity anode materials with its nano-particle SM-Silicon family of products to the fast-growing Lithium Ion battery industry. Paraclete's nano-particle silicon is the standard silicon for the Department of Energy's National Lab's Next Generation Anode materials. Paraclete in the coming months is scaling its production facilities beyond Michigan to get closer to its customer facilities in the US, Europe and Asia. This expansion has created a need for a variety of core skills and opportunities for production, process and chemical engineers with ball and bead milling experience to include team leaders and manufacturing process engineers, operators and technicians.

Paraclete offers a very attractive pay and benefit package along with bonuses and stock-based compensation with a very liberal vacation, holiday and days off per year.

Duties and Responsibilities

- 5 years of relevant experience.
- Deep understanding of manufacturing, drying and dispersion of nano and micron size powders.
- Apply various quality control measurements and material characterization.
- Understanding of equipment and equipment maintenance and process control parameters to optimize yield and quality
- Experience optimizing formulations, mixing techniques and material fabrication.
- Demonstrate excellence in communication skills including technical writing and presentations.
- Understanding of postmortem analysis and how to use such data to change parameters to improve overall processing.
- Lead and assist production team in testing and optimizing materials for scale-up processes.

- Demonstration of communication skills including technical writing, presentations and interpersonal interaction.
- Work with external prospects and customers to define, develop, and exceed specifications.

Qualifications and Desired Experience

- 5 Years working with ball and/or bead milling and drying of of nano and micron size powders
- 5 Years experience operating and maintaining such equipment
- 5 Years making and drying nano and micron sized powders with appropriate equipment

Required Education and Abilities

- BS, preferably MS degree in Chemical, Mechanical or Process Engineering or related engineering degree and 5 years of experience applying such degree in commercial manufacturing and drying of nano and micron sized hazardous powders.
- Expert level of knowledge and preferably hands-on experience in multiple characterization techniques.
- Strong background in process control and manufacturing and operating and maintaining equipment.
- Experience with developing and writing technical specifications and standard operating procedures for components, assemblies, material development and overall operations.
- Ability to think creatively and analytically
- Strong verbal and written communication.
- Excellent cross-functional and teamwork skills.