

# WASHINGTON MILLS

## **Job Opening: Boron Carbide Process Engineer** **Washington Mills Electro Minerals Corporation** **1801 Buffalo Ave., PO Box 423, Niagara Falls, NY 14302** **(716) 278-6600**

### **Company Description**

Washington Mills is one of the largest producers of high quality abrasive and fused mineral products in the world. It has facilities throughout the U.S., Canada and Europe and serves a global customer base. Its principal business is the fusing of oxide and carbide minerals in electric arc and Acheson furnaces, as well as the grinding and classifying of the minerals into grains and powders. Established in 1868, Washington Mills continues a long history of excellence in serving raw materials to the abrasive, refractory, ceramic and industrial abrasive markets.

### **Job Description**

The Process Engineer plans, organizes and directs engineering functions to meet company objectives for new product development and improvement of existing product lines. You will be involved in all process engineering aspects of a manufacturing plant and must be willing to work in a collaborative environment to improve efficiencies and reduce costs. Development/improving work instructions used in the manufacturing and Quality Control process are an integral part of this position's responsibilities. In addition, emphasis on safety and environment compliance are important in our work environment. This position will have primary responsibility to our Boron Carbide Program and report to the General Manager, Boron Carbide.

### **Essential Functions**

- **Process Engineering**
  - Learn internal crushing, grading, and furnacing systems
  - Improve manufacturing efficiency by analyzing and planning work flow, space requirements, and equipment layout
  - Provide manufacturing engineering information by answering questions and requests
  - Provide manufacturing decision-making information by calculating production, labor, and material cost
  - Manage assigned technical responsibility for existing active processing facilities
  - Coach, teach, and advise process operators
- **New Product /Process Development**
  - Develop new manufacturing product/processes in collaboration with customer base
  - Design experiments at lab, pilot plant and manufacturing scale to qualify new products and processes.
  - Prepare product and process reports by collecting, analyzing, and summarizing information and trends
- **Quality Systems-Continuous Improvement and Documentation**
  - Lead in developing/improving standard operating procedures, work instructions and test methods for manufacturing and QC processes
  - Experienced in the use of statistical tools to evaluate manufacturing processes and data.
  - Assist in investigations related to deviations and out of specification results and
  - Participate in Quality Audits as required
  - Maintain professional and technical knowledge by attending educational workshops; reviewing professional publications; establishing personal networks; participating in professional societies
- **Knowledge in Ceramic and Chemical Processes- interface with lab regularly**
  - Ensure proper raw material specifications and procurement for assigned products/ processes
  - Assume responsibility for matters relating to product chemistry
  - Assist in understanding and resolving product chemistry issues with lab

## Required Skills

- Bachelor of Science degree in Mechanical/Ceramic/Chemical or Industrial Engineering
- Minimum 5 years work experience
- Experience with MS Office including Word, Outlook, PowerPoint, Excel and statistical software (e.g. JMP)
- Project management experience
- Strong understanding of process safety concepts and issues
- Strong background in Quality Systems
- Working knowledge of the chemistry of ceramics
- Basic knowledge of competing and alternative technologies
- Ability to independently create functional and cost effective designs that meet complex requirements
- Excellent communication, interpersonal, organizational and problem-solving skills
- Must be a US Citizen and eligible to obtain Government Clearance to work in a Classified program

## Compensation/Benefits

Washington Mills offers a comprehensive and competitive benefit package including:

- Paid at a rate commensurate with experience
- Medical and dental plans heavily subsidized by Company when working thirty hours or more
- Company paid life insurance
- 401(k) with an employer match and employer discretionary contribution at six months
- On-site parking
- Immediate paid vacation and holidays
- Family-friendly sick and personal leave

The above statement reflects the general details considered necessary to describe principle functions of the job identified and shall not be construed as a detailed description of all the work requirements that may be inherent in the job.

***Washington Mills is an Equal Opportunity Employer committed to workforce diversity. M/F/D/V. Qualified minorities, women, individuals with disabilities, and veterans are strongly encouraged to apply.***

If interested, please send resume to: [niagarafallsjobs@washingtonmils.com](mailto:niagarafallsjobs@washingtonmils.com)