



**Job Title: Extrusion Process Engineer**

**Location:** Beaver Falls, PA

**Department:** Engineering

**Reports To:** Continuous Improvement Manager

**Position Overview:**

As a Process Engineer at McDanel Advanced Materials Technologies, you will be instrumental in optimizing our ceramics extrusion processes. Reporting to the Continuous Improvement Manager, you will focus on enhancing manufacturing systems, ensuring high product quality, and contributing to our safety culture. Your role will involve analyzing existing processes, implementing improvements, and supporting our drive for operational excellence.

**Key Responsibilities:**

- **Safety & Compliance:** Ensure all processes comply with McDanel's policies and safety regulations. Advocate for best safety practices, uphold industry standards and improve safety throughout the process.
- **Process Optimization:** Evaluate and refine our ceramics extrusion processes to boost efficiency, reduce waste, and improve overall performance. Develop and implement strategies for process enhancements, new process flows and tooling. Write work orders to have process machinery and/or tooling repaired.
- **Quality Assurance:** Monitor and ensure that extrusion processes consistently meet McDanel's stringent quality standards. Investigate and resolve any quality issues, conducting root cause analyses and implementing corrective actions.
- **Data Analysis:** Leverage data analytics to assess process performance and identify improvement opportunities. Create detailed reports on process metrics and present findings to the Continuous Improvement Manager and other stakeholders.
- **Project Management:** Lead and manage process improvement projects, ensuring they are executed effectively and on schedule. Collaborate with cross-functional teams to achieve project goals and deliver results.
- **Process Documentation:** Develop and maintain thorough documentation for methods of manufacturing (MOMs), standard operating procedures (SOPs), and best practices. Ensure documentation, such as customer drawings, are approved and up-to-date.
- **Training & Support:** Provide technical support and training to production teams on process improvements and new technologies. Promote a culture of continuous improvement and learning.
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- **Innovation:** Stay abreast of industry trends and emerging technologies in ceramics extrusion. Evaluate and recommend new technologies and methodologies to enhance our processes.

#### **Qualifications:**

- **Education:** Bachelor's degree in Mechanical Engineering, Chemical Engineering, Materials Science, or a related field.
- **Experience:** 0-4 years of experience in process engineering, ideally within the ceramics or manufacturing industry. Experience with extrusion processes is desirable.
- **Skills:** Strong analytical and problem-solving abilities. Proficiency in data analysis tools and software. Excellent communication skills and project management.
- **Technical Knowledge:** Solid understanding of ceramics extrusion technology, process control systems, and quality management systems. Familiarity with Lean Manufacturing and Six Sigma methodologies is advantageous.
- **Personal Attributes:** Self-starter with a results-oriented approach. Ability to work independently and as part of a team. Strong organizational skills and the capacity to manage multiple projects simultaneously. Drive to uphold McDanel core values.

#### **Benefits:**

- Competitive salary with performance-based incentives
- Comprehensive health, dental, and vision insurance
- Retirement savings plan with a company match
- Paid time off and holidays
- Opportunities for professional development and career growth

#### **Qualifications**

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.

#### **Language Skills**

Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations. Ability to write reports, business correspondence, and procedure manuals. Ability to effectively present information and respond to questions from groups of other management, employees, and customers. Effectively communicate with people in potentially stressful situations.

#### **Physical Demands**



The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this Job, the employee is regularly required to talk or hear. The employee is frequently required to sit. The employee is occasionally required to stand; walk; use hands to fingers, handle, or feel; reach with hands and arms and taste or smell. The employee must frequently lift and/or move up to 25 pounds and occasionally lift and/or move up to 50 pounds. Specific vision abilities required by this job include close vision.

**Other Duties**

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities and activities may change at any time with or without notice.

**Signatures**

This job description has been approved by all levels of management:

Manager \_\_\_\_\_ Date: \_\_\_\_\_

HR Manager \_\_\_\_\_ Date: \_\_\_\_\_

Employee signature below constitutes employee's understanding of the requirements, essential functions and duties of the position.

Employee \_\_\_\_\_ Date \_\_\_\_\_