

**Position Description: Design Engineer**

**Location: Winthrop, Maine**

The Design Engineer is responsible for all aspects of the design of wet vacuum filtration parts and equipment for liquid-solid separation, from conceptual design, performing any necessary calculations or analyses, generating 3D models, and detailed manufacturing drawings and documentation, such as O&M manuals. The Micronics Engineered Filtration Group specializes in making custom-designed liquid-solid separation machines (e.g. horizontal belt vacuum filters, rotary disc vacuum filters, rotary drum vacuum filters, etc.) and peripheral systems to meet our customers' individual needs.

In addition, this position involves providing on-site support to our field service team and customers, applications engineering support, R&D, and prototyping.

The position reports to Micronics' Senior Director of Engineering.

**RESPONSIBILITIES & DUTIES:**

- Promote Company's core values and associated culture, safety, leadership, quality, and customer satisfaction.
- Design parts & equipment to meet customer specifications and requirements.
- Design custom components & systems to integrate with existing customer facilities and equipment.
- Size and specify components for systems such as drive, vacuum, auxiliary, etc.
- Inspect, assess & document customer parts & equipment in the field.
- Reverse-engineer parts or equipment from samples or in the field.
- Generate 3D models, drawing packages, bills of materials and O&M Manuals.
- Perform necessary engineering calculations to validate or improve designs.
- Work w/ vendors on manufacturing of designed parts.
- Provide technical support on-site for installation and startup of large projects.
- Participate in new product development.
- Participate with quality control.

**EDUCATION/EXPERIENCE:**

- Bachelor's degree in Engineering, preferably Mechanical Engineering
- Experience with large assembly management (500+ parts)
- Experience with Autodesk Inventor & Vault
- 5+ years' experience working in filtration equipment machine design
- Hold or be eligible for a valid passport



**CORE COMPETENCIES:**

- Experience collecting dimensions in the field.
- Strong attention to detail.
- Aptitude for problem solving.
- Experience with customer specifications, industry code standards as they relate to the design aspects of capital equipment.
- Ability to multi-task on several projects.
- Good verbal and written communication skills.
- Drive to learn and grow professionally.
- Personal commitment to team environment, safety, customer satisfaction, and quality control.
- Ability to ensure a safe work environment.
- PC literate, skilled in the use of Microsoft Office Apps for business.

**SALARY: \$58,000 - \$62,000**

**BENEFITS:**

- Medical, Dental, and Vision
- Company-paid Short-Term Disability and Life Insurance
- Voluntary Life and Long-Term Disability
- Paid Time Off
- 10 Paid Holidays
- 401K with Employer Match

**EQUAL OPPORTUNITY EMPLOYER:**

The Micronics Engineered Filtration Group is an Equal Opportunity Employer and does not discriminate on the basis of Race, Religion, Color, Age, Gender, Marital Status, Sexual Orientation, National Origin, Physical or Mental Disability, Vietnam Era or Disabled Veteran Status, or any other categories protected by law.

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