



## Fabrication Design Engineer

Are you a hands-on engineer who enjoys solving complex technical challenges and bringing custom designs to life? We're looking for a talented Fabrication Design Engineer to join our team and help develop innovative fabricated assemblies and engineered spray systems used in demanding industrial applications.

In this role, you'll collaborate with customers, manufacturing teams, quality specialists, and cross-functional engineering groups to design high-performance solutions that balance functionality, manufacturability, and cost efficiency.

### What You'll Do

- Design and develop 3D CAD models, assemblies, and detailed fabrication drawings for custom engineered spray systems and fabricated equipment
- Translate customer specifications and application requirements into practical, manufacturable designs
- Optimize products for fit, form, function, quality, and cost efficiency
- Perform engineering evaluations, calculations, and analyses to improve product performance and reliability
- Support manufacturing processes including CNC machining, welding, investment casting, and metal fabrication
- Maintain accurate engineering documentation including drawings, technical justifications, BOMs, and process records
- Review peer designs and documentation for accuracy, manufacturability, and continuous improvement opportunities
- Partner with Quality teams to investigate non-conformances, determine root causes, and implement corrective actions
- Communicate technical requirements and limitations effectively with customers, vendors, and internal stakeholders
- Collaborate closely with Sales, Applications Engineering, Manufacturing, R&D, and Quality teams to solve complex spray process challenges

### What We're Looking For

- Strong problem-solving skills with the ability to develop creative, practical engineering solutions
- Experience with 3D CAD software; Autodesk Inventor experience preferred
- Knowledge of fluid dynamics and metal fabrication manufacturing processes
- Ability to perform engineering calculations and apply findings toward product optimization
- Familiarity with fabrication and pressure vessel design standards such as ASME B31.3, B31.1, BPVC Section VIII-1, and vortex shedding analysis (ASME PTC 19.3)
- Strong understanding of engineering best practices and design for manufacturability
- Excellent project management and organizational skills with the ability to manage multiple priorities and deadlines
- Strong communication and collaboration skills in a cross-functional environment

### **Qualifications**

Bachelor's degree in engineering or a related technical field  
3–5 years of experience in design engineering  
Experience with common fabrication techniques and manufacturing processes  
Familiarity with metalworking tools and precision measuring equipment  
Experience with investment cast molds is a plus

### **Pay range**

\$70,000 - \$82,000 / annualized

### **Why Join Us?**

Work on highly customized engineered products and real-world industrial applications  
Collaborate with experienced technical teams across engineering, manufacturing, and R&D  
Opportunity to influence product innovation, process improvement, and manufacturing efficiency. Fast-paced environment where your ideas and technical expertise make a direct impact.

### **Benefits to working with BETE:**

A competitive benefits package that includes: 401(k) Retirement Savings Program (including a company match), Health, Dental, and Vision Insurance. Flexible Spending Account and Dependent Care Spending Accounts. MA Paid Family Medical Leave, Employer Paid Life and AD&D Insurance(s), Voluntary Family Life Insurance; AD&D & Critical Care, Employee Assistance Program. Vacation Time, Sick Time, Float Time. Employee Referral Program, Tuition Reimbursement, Bi-Annual Discretionary Bonuses (June & December), 8 ½ paid holidays, and an on-site fitness facility.

### **History of BETE:**

Founded in 1950 in Greenfield, MA, BETE operated as a family-owned business until 2024, when Matthew Bete's strategic partnership with EXAIR opened the door to significant opportunities and growth. BETE's established USA manufacturing and strong international presence continue to thrive with the support of our distributor network and growing subsidiaries in Germany and Europe. BETE's spray technology is used worldwide to optimize processes in various markets, including food, beverage, petrochemical, chemical, and pollution control. We manufacture tens of thousands of different products, including fog and misting nozzles, tank cleaning nozzles, material injection nozzles, custom spray lances, fabrications, and spray systems. We offer Advanced Spray Engineering Services to solve more challenging and critical problems, including the ability to perform CFD studies and physical testing. Our decades of experience in spray design and applications engineering, combined with our CNC machine shop, foundry, and spray lab, are used to design, manufacture, and test our products. Our innovations improve sustainable operations in a broad range of industries. We listen to and partner with our customers to ensure the optimal solution for their spraying challenge.