



## **Mechanical Design Engineer**

Factory Automation Systems is an industrial automation systems integrator, founded in 1992. Located in Atlanta, GA, we provide turnkey automation solutions to manufacturing companies in the region, across the U.S. and abroad. Our core expertise includes robotic systems, programmable controllers, motion control and information systems. We deliver solutions to customers in many industries – building products, automotive, metals, food processing, chemicals and more.

In robotics, FAS specializes in machine tending, material handling, material removal and assembly applications. We are a Robotics Industries Association (RIA) certified robot integrator, and FAS is an authorized integration partner for the leading industrial robot vendors - FANUC, KUKA and ABB.

We are seeking a Mechanical Design Engineer with experience in machine design, robotics and industrial automation. Mechanical Design Engineers work as part of a small project team, primarily designing and executing robot cells. We are looking for a capable, creative and self-motivated professional who wants a career working in a constantly changing variety of applications, industries and engineering challenges.

### **Education and Experience:**

- Bachelors or Masters degree in Mechanical Engineering or a related discipline
- Work experience in manufacturing
- Machine design, robotics and automation experience
- Ability to learn quickly to remain current in this constantly evolving field

### **Description:**

The Mechanical Design Engineer position involves:

- Understanding and implementing the technical requirements and scope of work for each project
- Interacting with the project manager, project engineers, the fabrication shop and the customer in a professional, productive and effective manner
- Adhering to project schedules and budgets while working on multiple projects simultaneously
- Designing robot cells, end-of-arm tooling and custom equipment within the cell
- Selecting and specifying robots and other cell equipment
- Generating detail and assembly drawings of custom equipment including end-of-arm tools
- Testing and troubleshooting equipment,
- Supporting the fabrication and installation team

### **Skills and Knowledge Required:**

- Proficiency with 3-D modeling software (SolidWorks preferred) and 3-D AutoCAD
- Knowledge of ANSI/ASME drafting standards; ability to read, create and check drawings

- Knowledge of the design of mechanisms involving bearings, pneumatic systems and electric motors, including experience with servos, sensors, materials, finishes and structural design
- Knowledge of robotic cell design including reach analysis, cycle time analysis and safety standards
- Knowledge of fabrication and machining processes used to make custom components
- Knowledge of automated industrial processes

Factory Automation Systems is an equal opportunity employer and a drug-free workplace. The company offers competitive compensation based on skills and experience. FAS has a comprehensive benefits package with medical and dental insurance, life insurance, paid vacation, paid holidays and a 401(k) plan with company matching. Travel for this position is estimated at 5% – 15%.