

Sr. Mechanical Design Engineer

FAS is seeking a Sr. Mechanical Engineer with experience in robot cell design, including reach studies, layouts, tooling and fixture design and safety systems. The Sr. Mechanical Engineer will work as part of a project team that is responsible for designing, staging, programming and commissioning turnkey robot cells and safety systems. 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:

- ◆ Bachelor's or Master's degree in Mechanical Engineering
- ◆ At least (8) years of experience in mechanical Industrial design and/or industrial robot systems.

The Sr. 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
- ◆ Generating detail drawings and assembly drawings of custom equipment
- ◆ Reviewing detail and assembly drawings for approval to manufacture
- ◆ Visiting customer facilities in order to determine scope, check assumptions, and solve problems
- ◆ Designing robot cells, end effector tooling and custom equipment within the cell
- ◆ Designing mechanisms involving bearings, pneumatic systems and electric motors, including experience with servos, sensors, materials, finishes and structural design
- ◆ Selecting and specifying robots and other cell equipment
- ◆ Selecting and specifying safety system components
- ◆ Completing robotic reach analysis and cycle time analysis
- ◆ Testing and troubleshooting equipment
- ◆ Supporting the fabrication and installation team

Skills and Knowledge Required:

- ◆ Proficiency with SolidWorks and AutoCAD
- ◆ Knowledge of ANSI/ASME drafting standards
- ◆ Knowledge of fabrication and machining processes used to make custom components
- ◆ Knowledge of automated industrial processes
- ◆ Ability to learn quickly to remain current in this constantly evolving field

Travel for this position is estimated at 5% – 15%.

*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.*