

Sr. Mechanical Project Engineer Job Description

Adaptive Innovations Corp. provides complete turn-key automated solutions specializing in custom automation, robotics, tooling and testing equipment. Adaptive is located in Lakewood, CO and is a rapidly growing firm offering an exciting work environment with constantly changing and growing challenges. **Adaptive is seeking a creative and driven senior mechanical engineer to join our team.**

Responsibilities:

- Project leader and company resource for mechanical system design and development.
- Develop mechanical system design solutions based on engineering principles and involvement in presentation of the solution to customer.
- Provide technical support to external and internal customers.
- Resolve operational problems related to projects and minimize delays or unexpected cost increases.
- Responsible for project success whether project leader or as part of a project team.
- Ensure all relevant safety objectives and legal requirements are observed for all work completed.
- Support sales team in pre-sales technical concept and budgeting activities.
- Interpret client requirements, identify and address design parameters and engineering problems, and ensure solutions are implemented accurately and in budget.

Engineering:

- Provide critical review and guidance to teammate's analysis and design.
- Capable of critical thinking, long term system planning, design and analysis to ensure success of projects.
- Analyze project requirements and perform technical calculations supporting design including FEA and CFD (Computational Fluid Dynamics).
- Lead other engineers in development of technical skills.
- Create and finalize designs to meet project requirements.
- Create accurate Bill of Materials.
- Define equipment and parts from external suppliers.
- Conduct cost and time estimation.

Project Execution:

- Oversee project workflow and support internal and external resources to ensure timely delivery of projects, expected quality, and allotted budget.
- Mechanical design of customized solutions including motor sizing, pneumatic/electro-pneumatic/and electrical routing.
- Support manufacture, build and validation of systems.
- Create customer documentation.

Projects Completion:

- Maintain accurate records and files according to quality standard.
- Commission customized products and systems onsite and at customer facilities.

Servicing:

- Modifies systems upon customer's request and documents the amendments accordingly.
- Provide high quality pre-sales, design-in and post-sales technical support to customer.

- Performs other duties of a similar nature or level.

Job requirements:

- Applicants must be Citizens of United States.
- A Bachelor's Degree in Mechanical Engineering (or similar related degree).
- 5-12 years related job experience.
- Proficient in SolidWorks software, MS Office.
- Expert level knowledge of mechanical design and its application in automated industrial designs including specification of motors, gears, mechanical systems, pneumatics, robotic and vacuum systems.
- Critical thinking with exceptional problem solving skills, able to work independently or in team environment.
- Efficiently organize and plan work tasks to meet company goals.
- Proactive, resourceful and highly motivated with good communication skills and ability to work in high output environment.
- Ability to balance multiple projects with proven track record.
- Travel as required to support projects.

To Apply:

- Please submit cover letter, resume, and salary requirements and history to HR@a-i-corp.com