



Mechanical Engineer Level 1-2

*Must be a U.S. citizen or a U.S. permanent resident (current Green Card holder).

About Uni-Systems Engineering

Uni-Systems Engineering is a premier provider of custom mechanization for iconic structures and attractions that create unforgettable experiences. We partner with engineers, architects, and construction managers to mitigate risk and deliver functionally integrated, reliable structures. Our team of mechanical, structural, and electrical engineers deliver custom, project-specific solutions to complex and unprecedented engineering challenges. With expertise spanning industries such as Aerospace, Amusement and Entertainment, Stadiums and Ballparks, Telescope Observatories, and Custom Cranes, we bring engineering excellence to every project.

Visit our website (www.uni-engineer.com) to learn more.

Job Summary

The Level 1-2 Mechanical Engineer will perform design and engineering tasks, and coordinate work with drafters and engineers both within and outside the company. Responsibilities include design, drafting, analysis, and other engineering documentation.

The person in this role may be responsible for project engineering on small to medium-sized project scopes from design development through installation and commissioning. They will need to utilize engineering principles, building codes & client codes, and implementing prototype testing when necessary to create functional, safe, and economic designs. They may contribute to additional aspects of projects including documentation, purchasing, fabrication, installation, and commissioning of mechanized systems.

This position will provide work direction, technical expertise, and effective communication to the project team. It will utilize strong analytical skills to resolve complex technical challenges and outcome-oriented self-direction to achieve ambitious project goals.

- Design and engineer components and mechanical systems. Includes design, calculations/ documentation, design sketches, drawings (design phase and final drawings), and writing material and performance specifications
- Actively participate in scheduled design reviews with contractors, architects, engineering consultants, and other project team members
- Review and participate in prototype testing of new assemblies/structures
- Perform QA inspections at manufacturing and fabrication shops before shipment to job site
- Provide project status updates as required for Project Review and other company meetings
- Stay current with codes and requirements that apply to specific engineering disciplines
- Provide technical expertise to support Uni-Systems Sales and Marketing efforts

- If required, monitor project design costs and progress to ensure that approved project budget and schedule goals are achieved. Facilitate client communication
- Drive continuous improvement by finding ways to enhance quality and performance with shop and field assembly, adjustment, function, aesthetics, costs, and maintenance

Job Requirements

- 0-5 years' experience with B.S. Degree from an ABET accredited institution in Mechanical Engineering
- Knowledge of current codes and requirements that apply to the Mechanical Engineering discipline
- Proficient at using analysis and design software that is relevant to the business
- Results-oriented with proven ability to organize, plan, and prioritize work to meet deadlines
- Communicates effectively with management, employees, vendors, and customers
- Strong attention to detail in completing work
- Able to apply sound judgment and problem-solving skills to complex projects and business challenges
- Engineer In Training Certificate, or plan to take the Fundamentals Exam, preferred
- Experience in managing risks associated with custom designs is preferred
- Experience with clients' input to innovate and creatively solve multifaceted problems is preferred
- Understanding of engineering software, most advantageous being SolidWorks and MathCAD
- Knowledge of fabrication techniques and machine shop experience is advantageous
- Exposure to mechanical equipment/systems and/or a general aptitude to being hands-on is advantageous

Benefits of Employment

- Competitive salary and growth opportunities.
- Comprehensive benefits package including medical, dental, vision, life, and disability insurance.
- 401(k) plan with above-market company matching.
- Generous Paid Time Off (PTO) and Paid Company Holidays.
- HSA and FSA options.
- A collaborative culture built on integrity, respect, innovation, value, and enterprise.

If you are passionate about solving complex challenges and shaping innovative solutions, we encourage you to apply for this exciting opportunity at Uni-Systems Engineering!