

Job Title: **Senior Mechanical Engineer**
5+ years' mechanical machinery design experience
Salary range will commensurate with experience

Job Summary

Provide effective engineering expertise, input, and mechanical design support on a project basis. Contribute to multi-disciplinary team on many aspects of projects including conceptual and detailed design, documentation, product specification and procurement, fabrication and installation support, and commissioning of electro-mechanical systems. Provide technical expertise, and effective communication to the project team. Utilize strong analytical skills to resolve complex technical challenges. Self-directed and outcome-oriented in achieving ambitious project goals.

Mechanical Engineering responsibilities include:

- Design of heavy electro-mechanical machinery
- Maintain calculations and design records for assigned projects
- Assist in development and design philosophy for assigned projects
- Assign tasks and coordinate with entry-level engineers, designers and admin. staff
- Monitor QA program for shop assemblies and field installation
- Component selection and purchasing
- Project commissioning

In the Project Group – special assignments may include:

- Actively participate in design reviews with both internal and external team members
- Interface with other departments to coordinate mechanical systems with structural and electrical systems
- Visit manufacturing/vendor sites to inspect and test components and assemblies
- Design, execute and document prototype testing procedures to validate new designs
- May act as project engineer or assistant project manager on assigned project
- Frequent inter-organizational and outside customer contact, represent the company in providing solutions to technical issues associated with a specific project

Support Company's Sales & Marketing Efforts:

- Provide technical and media support for O&M documentation, including manual reviews, technical documentation, and visual materials
- Write articles for magazines and technical journals

Benefits of Employment

- Competitive Salary
- Opportunity for Growth
- Medical Insurance
- Dental Insurance
- Life Insurance
- ST and LT Disability Insurance
- 401K Retirement Plan
- Generous Paid Time-Off (PTO) plan

Job Requirements

Education:

- Bachelors in Mechanical or Aerospace Engineering
- Professional Engineer (PE) or Engineer in Training (EIT) preferred

Experience:

- 5+ years' experience in mechanical systems design
- Candidate must have experience with drive systems components including chains, belts, cables, electric motors, gearboxes, linkages, jackscrew, bearings, wheels, hydraulics
- Experience with 3D modeling and Finite Element Analysis software. SolidWorks, SolidWorks Simulation FEA, AutoCAD and MathCAD experience preferred
- Must be proficient in documentation of calculations and solutions to technical problems
- Hands-on experience in an industrial machinery or manufacturing environment is desirable

Knowledge:

- Knowledge in hydraulic motors, pumps, accumulators and actuators is preferred
- Knowledge of fabrication techniques and machine shop experience beneficial
- Demonstrated technical leadership within product development and engineering

Skills and Abilities:

- Superior interpersonal communication skills, both written and verbal for internal reviews and client presentations
- Must be able to work efficiently on a multidisciplinary team
- Ability to work independently to make decisions and report progress as required
- Desire to solve unique and challenging mechanical design problems including machine design, structural dynamics/statics, and related integration activities
- Creative and alternative thinking to develop new ideas and solutions for design problems
- Ability and desire to learn new skill sets
- Strong ability to multitask
- Travel may be necessary during certain phases of large projects
- Must be legally authorized to work in the United States without sponsorship for employment visa.

How to Apply

Please send resumes to the attention of Renee Werner, HR. Generalist at:
rwerner@uni-engineer.com

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Thank you for your interest in Uni-Systems Engineering Inc