



JOB TITLE: Mechanical Designer (“MD”)		Position Type: Exempt
COMPANY: Cypress Inline Inspection, LLC (“Cypress”)		DEPARTMENT: Engineering
REPORTS TO: Chief Mechanical Engineer - Energy	Location: Salt Lake City, UT	Compensation: Market depending upon experience and skills

GENERAL SUMMARY

Cypress is a young, next generation technology company providing environmental services. We focus on building and operating state of the art inspection tools, technology, and data analysis. As part of a multi-discipline team, MD will work on designing and developing fifth generation (“5G”) Magnetic Flux Leakage (“MFL”) inline inspection (“ILI”) tools and systems. These ultra-high-resolution tools are also known as “smart pigs” or (“pipeline inspection gadgets”) are designed to provide high resolution images of pipelines to assist the owners in protecting property, people, and the environment. These ILI tools are complex and utilized to inspect both municipal water pipelines that transport precious drinking water, and energy pipelines that transport various products including gasoline, diesel, jet fuel, crude oil, natural gas, natural gas liquids, and other products routinely transferred via underground pipelines. ILI of pipelines is similar to how we utilize magnetic resonance imaging (“MRI”) technologies in health care. We work for some of the most prestigious municipal water authorities, and energy pipeline companies in the world including City of San Francisco, City of Denver, Jordan Valley, North Jersey Water Supply commission, Washington County, UT, Travis Air Force Base, McDill Air Force Base, City of Denver, Chevron, DCP Midstream, Plains All America Pipeline, Phillips 66, Targa, etc. The successful candidate will be responsible for the maintenance and continuous improvement of the Cypress’s processes, procedures and equipment. Ideal candidate would be a hands-on individual who takes ownership of projects and drives them to successful conclusions.

- PRINCIPAL DUTIES & RESPONSIBILITIES (other duties may be assigned)**
1. Manages all aspects of an ILI tool development program and communicates project status.
 2. As required, leads cross-functional project teams to support design and development and may work on multiple projects simultaneously.
 3. Applies strong engineering principles, theories, concepts and techniques to tasks and projects that may result in new applications, industry standards or practices.
 4. Collaborate with electronics, mechanical, software, and other personnel in the design, manufacture, and implementation of the company’s ILI tool fleet.
 5. As a key member of the design team, resolves technical issues and conducts advanced research to improve understanding of MFL ILI tool dynamics.
 6. Generates and maintains all required design documentation (engineering calculations, diagrams and technical reports etc.) and complete required technical and regulatory documents.
 7. Present analysis results and project solutions to technical leads, senior leaders and clients as necessary
 8. Strong interpersonal skills with the ability to ask and take input from a wide variety of sources.
 9. Perform QA/QC on incoming materials.

10. Prepare documentation and support material for all ILI tools.
11. Understand and improve upon our quality policy, quality systems manual, operating and technical procedures, and workplace instructions.
12. Promote Environmental, Health & Safety and always follow safe working practices
13. Represent Cypress with high moral standards while adhering to the Company's Code of Business Conduct and Ethics, and Core Values.
14. Other duties as assigned from time to time by leadership.

KNOWLEDGE, SKILLS & ABILITIES

- Bachelor of Mechanical Engineering or Equivalent
- Experience managing development projects of complex mechanical systems
- Strong SolidWorks skills
- Strong project management skills preferred
- 5+ Years' Experience in the Design of complex machine design. ILI tool experience is a plus.
- Ability to properly prioritize varied project priorities to assure optimal project outcome.
- Knowledge of various metal and polymer materials for use in an energy environment.
- Energy experience in the midstream sector, particularly in pipeline integrity will be beneficial.
- Experience working with third-party manufacturers and sourcing parts.
- Ability to quickly and independently learn new design technologies and skills
- Creativity and problem solving
- Teamwork and strong verbal and written communication skills

WORKING CONDITIONS

Office environment may include prolonged sitting and repetitive computer use

PHYSICAL DEMANDS

Duties involve sitting, standing, walking, and bending. Work normally requires reaching in all directions, seeing and hearing with or without correction, applying intermediate mathematical skills, writing, and proficient computer keyboard skills. Work may require extended hours to ensure project scope is met. Work may require travel to job sites from time to time to learn about field operations.

WORKING RELATIONSHIPS/CONTACTS

Internal - Frequent contact with other employees, departments, managers, and executives
External - Regular contact with clients and vendors

EQUAL OPPORTUNITY EMPLOYER

Cypress is an equal opportunity employer committed to diversity and inclusion. All qualified applicants will receive consideration for employment without regard to race, color, sex, pregnancy, sexual orientation, age, religion, creed, national origin, gender identity, disability, military/veteran status, genetic information or any other categories protected by applicable law.