



JOB DESCRIPTION

Job Title: Mechanical Engineer/API Inspector **Class:** Full-time (40 hours per week)
Salary Range: \$145,000 - \$165,000 (DOE) **FLSA:** Exempt
Reports to: Principal Consultant

SUMMARY

As a Mechanical Engineer/API Inspector, you will take ownership of small/medium mechanical engineering projects to support bulk fuel facility infrastructure. You will also perform API Inspections on location throughout Alaska. Travel is approximately 30% of the position. This position is responsible for project management tasks with support from senior management. You will have an opportunity to lead, inspire and mentor other inspection team members by modeling Integrity Environmental LLC core values.

This is a remote position, but residency must be in the Anchorage/Mat-su area.

DUTIES AND RESPONSIBILITIES

- Review, understand, develop and check Process and Instrumentation Diagrams (P&ID's) ortho-graphics, isometrics, bill of materials, pipeline lists, valve lists, and tie-in lists for piping design projects incorporating your familiarity with piping design in process environments
- Perform API 653, API 570, and STI SP001 inspections and generate inspection reports with assistance from the technical writing team
- Estimate costs of completing projects (engineering costs and total installed construction costs)
- Take ownership for and manage project costs
- Understand pumping, piping, air and liquid flow and distribution systems; apply these principles to create a sound engineering design
- Complete mechanical engineering calculations such as:
 - Hydraulic calculations to size pumps and piping, determine NPSH, etc.
 - Heat loss calculations for piping, tanks and other equipment
 - Simple structural beam calculations for pipe supports, etc.
- Develop and certify mechanical engineering documents according to industry, project and company standards including P&ID's, general arrangements, equipment installation details, tank data sheets, tie-in procedures, and piping design while leading other engineers and designers
- Take ownership and responsibility of all drawings, documents, schedules and budgets
- Prepare technical specifications for review and approval
- Evaluate vendor bids and drawings to assure compliance with specifications and project requirements



- Provide project management for projects that are primarily mechanical engineering and inspection related demonstrating the ability to:
 - Be the primary point of contact for a client, and suggest solutions based on minimal information when a client calls to discuss a project
 - Lead weekly internal and client meetings
 - Prepare and communicate weekly meeting agendas and minutes
 - Willingness to travel to remote job sites on an as needed basis

EDUCATION AND/OR EXPERIENCE

- 5-8 years of experience in the completion of projects for clients in the industrial market sector including project development from concept through completion, including mechanical engineering, API inspections, estimating, start-up and commissioning
- Relevant experience includes oil and gas, refinery, process, or other industrial environments
- Technical field experience is relevant; our team spends time with clients at their site
- BS in Mechanical Engineering (BSME) required
- PE (Professional Engineer) registration for State of Alaska required
- API 653 & 570 certification required
- STI SP001 must be obtained within one year of hire
- LFET certification must be obtained within one year of hire
- Experience designing industrial piping systems and equipment layouts
- Experience estimating mechanical engineering labor and associated cost and total installed construction costs for the mechanical aspects of the project is required
- Strong background providing a combination of both project management, engineering skills, API Inspection experience, and a high comfort level with taking ownership and leading small/medium projects that are mechanically focused with little to no managerial oversight
- Experience running projects using Asana or MS Project or similar tool
- Strong written and oral communication skills
- Strong computer skills including the use of MS Office Suite (Outlook, Word, Excel), web meeting software (Teams, WebEx, GoTo Meeting, etc.), and PDF markup software (Bluebeam Revu or Adobe Acrobat)
- Strong knowledge of CAD software terminology, methods and practices; ability to operate CAD software and create drawing packages is required
- Strong leadership skills and problem resolution skills
- Ability and willingness to serve as primary customer liaison, serve as a subject matter expert in front of clients and to work within the team of professionals to achieve client objectives



REQUIREMENTS

Inspection duties are to be performed at field sites around Alaska. All travel details will be mutually agreed upon by both the employer and employee. Travel percentage is typically higher during warmer months and less during the colder months when snow and ambient air temperatures limit inspection capability.

All office duties are to be performed at the employee's home and with their personal automobile. No office space is provided with this job. To perform this job, the successful applicant must have their own office space, access to a phone, and high-speed internet to be dedicated to work activities. A company-owned laptop and the most current versions of applicable software programs will be provided by Integrity.

The applicant must possess a valid driver's license with a satisfactory driving record and automobile insurance with the following coverage rates: Bodily Injury \$100,000 / \$300,000.

PHYSICAL DEMANDS

Must possess ability to inspect various client sites, including traversing uneven terrain, climbing ladders, stairs, and other temporary or construction access points. Must be able to operate a motor vehicle. Employee must be able to lift, carry, push, and pull materials and objects weight up to 50 pounds.

BENEFITS

- Retirement benefits with up to 3% company matching
- Holiday & PTO (Paid Time Off)
- Health insurance (Blue Cross BlueShield in 2023)
- Ongoing paid training as determined by the employer
- Workers Compensation coverage as determined by the employer
- Employer will reimburse costs for certification maintenance and renewals as required to perform this position

Benefits not included:

Long-term or Short-term insurance

DURATION

Employment is considered "at will" and the person hired into this position will be expected to sign and return an acknowledgment of this employment status stating that they understand that this means that Integrity can end employment at any time without cause or notice.

All new Integrity employees are required to adhere to a 90-day orientation period during which extra coaching will be provided to learn the new position. At the end of the orientation period, a formal review and discussion will ensue regarding continued employment. This period does not change the at-will employment relationship between the employee and Integrity.