



Mechanical Piping Engineer

Company Overview

Triad Engineering Solutions, Inc., located in Carrollton, VA, is a consulting engineering firm providing mechanical and electrical engineering services to industrial, marine, and commercial clients. Our team focuses on practical, buildable engineering solutions and works closely with facility operators, engineers, and contractors to support complex infrastructure projects.

We operate with a small, highly capable team and emphasize responsiveness, collaboration, and strong technical problem-solving. Our projects often involve upgrades and improvements to existing industrial facilities.

Position Overview

Triad Engineering Solutions is seeking an **Mechanical/Piping Engineer** to support industrial piping engineering and design efforts. This position will primarily be involved with projects at large industrial facilities such as shipyards, but may also at times involve smaller commercial projects. The successful candidate will have experience with large piping distribution systems (steam, condensate, water, compressed air, etc.), pumps, compressors, control valves, etc. This position requires the candidate to work largely independently to investigate existing conditions at the client's facility, conduct necessary calculations, write reports, develop drawings in AutoCAD format, and guide designers in development of drawings. Managing multiple projects simultaneously and bringing them to completion in a timely manner is critical.

Key Responsibilities

- Meet with clients to discuss project scope, expectations, schedule, etc.
- Conduct site visits at large industrial facilities to inspect existing equipment, document existing conditions, record equipment nameplate information, measure critical dimensions, etc.
- Conduct necessary calculations such as piping pressure drop, pump sizing, freeze protection, anchor bolt sizing, etc.
- Contact vendors and manufacturer's representatives to obtain information on existing or proposed new equipment
- Write detailed specifications for materials, equipment, etc.
- Develop AutoCAD drawings such as plans, elevations, pipe support details, equipment pad details, piping & instrumentation diagrams (P&IDs), etc.
- Support projects during construction by reviewing submittals, answering RFIs, etc.
- Attend client meetings and represent Triad Engineering Solutions with professionalism



Qualifications / Experience

- Approximately **5-10 years of experience** working with industrial piping distribution systems
- Bachelor's degree in mechanical engineering (preferred)
- EIT or PE (preferred)
- Familiarity with a variety of fluid systems (water, air, steam, etc.), piping joining systems (butt weld, socket weld, threaded, flanged, grooved, etc.), and piping materials (steel, ductile iron, HDPE, etc.)
- Ability to work well with others (co-workers, clients, contractors, etc.)
- Strong written and verbal communication skills
- Proficient in the use of CAD software (AutoCAD preferred)
- Proficient in the use of MS Office applications (email, Word, Excel, etc.)
- Ability to multi-task, coordinate with other team members, and prioritize multiple projects
- Strong attention to detail and a willingness to learn
- Comfortable working in an industrial facility environment
- Ability to pass a background check
- Ability to reliably report to our office in Carrollton, VA on a daily basis

Benefits

Triad Engineering Solutions offers a competitive benefits package including:

- 401(k) with employer contributions
- Health, dental, and vision insurance
- Life insurance
- Short-term and long-term disability insurance
- Paid time off
- Bereavement leave
- Ten (10) paid holidays per year

Salary Range

\$80,000 – \$140,000 per year, depending on experience and qualifications.

How to Apply

Interested candidates are encouraged to send their resume, salary requirements, and three professional references to LScott@triadgroup-inc.com