

Job Description: Lead Mechanical Engineer**Complete job description**

The vessel-piping-static equipment engineer is responsible for supporting the design, fabrication, and installation of skid-mounted and stand-alone equipment. The projects involve pressure vessels and packaged process equipment consisting of piping, control valves, instruments and structural steel.

Accountabilities:

Review and confirm code basis for each project

Collaborate with other project team members to comply with project requirements and meet project schedules

Provide mechanical designs for pressure vessel and packaged equipment consisting of piping, control valves, instruments and structural steel

Provide technical support to external design resources, equipment vendors, and fabricators

Travel to fabrication shops for meetings, inspections and functional tests, and to customer site for vessel loading activities

Provide direction to fabricators and inspectors with applicable assistance

Review and approve fabricator and external design drawings, documentation and fabrication sequence

Provide leadership and develop innovative approaches and solutions for advancing UOP's knowledge in equipment and skid designs

Develop innovative and cost effective solutions in designing process related equipment

Perform calculations for pressure vessels, piping stress analysis, analysis and code analysis using multiple codes and standards

Provide project scoping input to ensure estimate accuracy and appropriate materials and methods are utilized in an efficient design

Provide proposal support by reviewing client specifications and requirements and providing expertise in setting strategy for product offerings

Basic Qualifications:

Bachelor of Science in Mechanical or Civil Engineering, or equivalent

Minimum 10 years mechanical or civil design engineering experience in the refining or petrochemical or gas industry is required.

Minimum 8 years experience with refining/petrochemical/gas industry design codes/specifications: AISC, ASCE 7, IBC, ACI, API

Experience with European and Russian design codes and standards

Additional Qualifications:

Strong written, verbal and interpersonal communications skills.

Experience generating specifications/drawings and equipment requisitions for pressure vessels, internals, and piping components

Familiarity with AutoCAD, 2D, 3D and CADWorx (3D Plant design software) a plus.

Experience with stress analysis, structural design, and pipe flexibility analysis, non-destructive testing or rotating equipment is a plus

Ability to quickly assess and make recommendations (rapid problem solving) regarding mechanical and civil issues

Ability to work effectively with team members of all disciplines

Ability to travel up to 25% annually.

Fluent in both the English and Russian languages

An MS or PhD advanced degree in Mechanical or Civil engineering is considered a plus

Professional Engineer (PE) is preferred