

**Job Description: Project Engineer II****Complete job description**

The mechanical-structural engineer will specialize in structural design and analysis. It is the responsibility of the mechanical-structural engineer to complete the design and analysis of multilevel open structures as typically found in an oil refinery or gas processing facility. The structural-mechanical engineer will also design and analyze the prefabrication of modular units constructed for both ship and road transport. Work will include the evaluation of earth quake and winds loads, shipping, lifting, and installation.

**Accountabilities:**

Review and confirm code basis for each project

Prepare structural design and fabrication specifications for each project

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

Review of detailed design including drawings, material take offs, 3D models and STAAD analysis

Review and approval of fabrication shop detail drawings for sizing, joint connections, and fabrication sequence

Proposal support including structural steel weight estimates, module weights, preliminary steel sizing and customer specification cost impact

Attend meetings with contract engineering firm and module fabrication subcontractors to review project requirements and design criteria

Review and approval of fabrication procedures for built-up structural shapes and similar project related design/fabrication details

Visit shops for kickoff meetings, critical inspections, and to provide feedback to improve future designs

**Basic Qualifications:**

Bachelor of Science in Mechanical or Civil Engineering, or equivalent

Five years experience with the following:

Refining/petrochemical industry design codes/specifications: AISC, ASCE 7, IBC, ACI, API

European and Russian design codes and standards

STAAD including modeling, analysis, design and trouble shooting

Performing wind load design of major structures in the refining, gas or petrochemical industry per design codes

Performing seismic design of structures over 20 meters, including seismic dynamic analysis and modal response spectrum analysis

**Additional Qualifications:**

Strong oral and written communications skills

Ability to work effectively within a team based environment

Project Engineering experience with an EPC contractor

Strong multi-tasking skills

Familiarity with structural materials and shapes

Ability to travel up to 25% of the time

Fabrication shop and site experience

Fluent in both the English and Russian languages