

Civil Structural Designer



Department:

Engineering

Immediate Supervisor:

Director of Engineering and Design

Location:

Houston/Midland TX

Job Description:

The Civil Structural Designer applies standard drafting techniques to generate and interpret drawings in support of assigned projects. The Structural Design Drafter creates and establishes drawings consistent with good drafting practices and client requirements. Design Drafters may coach and develop less experienced drafters.

Position Duties/Responsibilities:

- 3D modeling
- Preparing 2D plan and detail drawings of concrete and steel structures supporting line pipe and associated equipment. Including but not limited to: foundations supporting pumps, compressors, tanks, electrical equipment, and pipe rack structures; steel pipe racks, access platforms, and buildings.
- Coordinate efficiently with structural engineers to optimize design quality and efficiency.
- Manage workload and check work of project team of structural designers. Coordinate with other disciplines to squad check all project drawings.
- Review and markup vendor-supplied drawings and adapt model and drawings to accommodate vendor equipment.
- Travel to project sites when required for walk downs during design phase. Provide construction support as required, including answering RFIs.

Qualifications:

- Minimum ten (5-10) years' experience in civil and structural drafting and design of onshore Midstream facilities. Minimum 5 years' experience in pipeline facilities.
- Associate degree in drafting technology, engineering design, or related field; or minimum 2 years related coursework.
- Extensive knowledge and experience in modeling and drafting using CadWorx Steel and AutoCAD.
- Experience presenting model reviews to clients using Navisworks.
- In-depth experience in review and marking of structural steel vendor fabrication drawings, specifically knowledge of steel connections design which can be leveraged to optimize connection design to reduce cost and schedule.

Physical Requirements:

- Frequently be required to stand, walk, sit, reach with hands and arms, climb stairs and ladders, balance, stoop or kneel, talk, and hear, and use fingers and hands to feel objects, tools, or controls.
- frequently use up-close vision, distance vision, depth perceptions, and the ability to adjust focus.
- Extended amounts of time at a workstation utilizing equipment such as computer monitors, keyboard, telephone, etc.
- In some cases, the site working environment may include outside conditions and exposure to high temperatures.
- Must be able to lift-up to 15 pounds at times.

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