

Mechanical Engineer Level II Position Description

Department: Federal Services	FLSA Status: Exempt
Reports to: Engineering and Design Lead; Business Unit Manager	Date: 10/22/2018

Primary Function:

Provide engineered solutions by researching technologies, analyzing inputs, evaluating results, recommending solutions, following fabrications, testing equipment and installing solutions. Assists in development of engineering proposals and preliminary engineering budgets for projects. Develops preliminary designs for proposal preparation.

Essential Duties and Responsibilities:

- Interprets customer specifications to define requirements for mechanical designs
- Designs, develops, and models mechanical components under the guidance of the Engineering and Design Lead.
- Performs analysis of models such as seismic, thermal, and FEA to confirm compliance with contractual and code requirements
- Performs pressure vessel calculations in accordance with ASME Sec. VIII and pressure piping calculations in accordance with ASME B31.
- Generates project cost estimates and provides frequent updates to Project Manager regarding remaining costs.
- Provides technical support during fabrication
- Prepares technical manuals and test procedures

Promote and actively embrace the concept of professionalism, with an emphasis on quality, commitment, integrity, ingenuity, teamwork, the community and the environment. Safety is a deeply rooted cultural value and it must be promoted and enforced at all times.

Project Engineer Duties and Responsibilities (as assigned):

- Assist with preparing project proposals
- Develop detailed project schedules and project plans
- Act as technical and project liaison between Premier Technology and the customer
- Provide leadership and direction for project team

Qualifications/Experience:

- Bachelor's degree in Mechanical Engineering or General Engineering and 3-5 years of engineering experience.

- Proficient with Solidworks, and/or other 3D modeling and analysis platforms (Solidworks Simulation, RISA).
- Proficient with computer software including Microsoft Suite.
- Works well alone and in team environment.
- Experience with ASME NQA-1, ASME SECTION VIII, and ASME SECTION III.

Other Qualifications

The physical demands and work environment described here are representative of the conditions that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Physical Demands

While performing the duties of this job, the employee is frequently required to be in a shop environment. The employee is occasionally required to stand; walk; use hands to finger, handle, or feel; reach with hands and arms; climb or balance; stoop, kneel, crouch, or crawl and talk or hear. The employee must frequently lift and/or move up to 10 pounds and occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision and ability to adjust focus.

Work Environment

While performing the duties of this Job, the employee is occasionally exposed to moving mechanical parts and high, precarious places. The noise level in the work environment is usually moderate.