

## **SR. MECHANICAL ENGINEER - STRUCTURE**

**Job Description:** Zoomlion Heavy Industry NA, Inc., Yorkville, WI, is seeking a Sr. Mechanical Engineer - Structure. This position will perform engineering duties in planning, designing and analysis tools, structural design and other mechanically functioning equipment, specifically for AWP or Excavator. This includes direct involvement in all related design activities and engagement with cross-functional support staff to ensure project goals are met. Evaluate products, parts or processes for cost efficiency and reliability and work with other members of the engineering staff in a team environment to ensure that production is completed per project plan and timely. Primary duties include: Perform simple and complicated hand calculations and/or analyses. Read and interpret blueprints, technical drawings, schematics, or computer-generated reports. Research, design, evaluate, install, operate, and maintain mechanical products, equipment, systems and processes to meet requirements, applying knowledge of engineering principles. Collaborate with engineers or other personnel as appropriate regarding any essential engineering functions and to implement operating procedures, resolve system malfunctions, or provide technical information and/or assistance. Recommend design modifications to eliminate machine or system malfunctions. Conduct research that tests or analyzes the feasibility, design, operation, or performance of equipment, components, or systems. Investigate equipment failures and difficulties to diagnose faulty operation, and to make recommendations to maintenance crew. Develop and test models of alternate designs and processing methods to assess feasibility, operating condition effects, possible new applications and necessity of modification. Develop, coordinate, or monitor all aspects of production, including selection of manufacturing methods, fabrication, or operation of product designs. Specify system components or direct modification of products to ensure conformance with engineering design and performance specifications. Research and analyze customer design proposals, specifications, manuals, or other data to evaluate the feasibility, cost, or maintenance requirements of designs or applications. Write performance requirements for product development or engineering projects. Provide feedback and guidance to design engineers on customer problems or needs. Apply engineering principles or practices to emerging fields, new technologies and engineering concepts and practices. Study industrial processes to determine where and how application of equipment can be made. Design test control apparatus or equipment or develop procedures for testing products. Evaluate mechanical designs or prototypes for energy performance or environmental impact. Develop the design of products using computer-assisted design (CAD) in conformance to all appropriate industry standards. Assist designers in developing the design of products using computer-assisted design (CAD) or drafting equipment and software. Engage and participate in all relevant engineering activities including, DFMEA's, design reviews, tolerance stack-ups and engineering notifications. Confer with engineers or other personnel as appropriate regarding any essential engineering functions. Domestic and international travel required up to 10% of time for conferences, vendor visits, or meetings.

**Qualifications:** Requires bachelor's degree in mechanical engineering or related field, plus 5 years of progressive, post-baccalaureate experience in Mechanical Engineering or related field, which must include: 4 years of experience in Off Road Construction, Heavy Industrial and/or AG heavy equipment; 2 years of experience in Root Cause Analysis and Six Sigma Tools.

Applicants may apply online at [Zoomlion-na.com](http://Zoomlion-na.com)