



Zoomlion Heavy Industry NA, Inc.

Engineering Intern, Power Systems

Position Objectives

The Power Systems Engineering Intern reports to the Engineering Manager – Power Systems, the power systems product development leader for Zoomlion North America. The intern will participate in research, designs, tests, and validation of heavy machines for the North American market. The intern will work closely with engineers of all levels and other disciplines as part of the engineering team.

Essential Duties and Responsibilities

Under the supervision of the engineering manager:

- Assist with machine system layouts, routings, cabling, and 3D CAD modeling.
- Able to complete engineering calculations relating to fluids or thermal dynamic analysis.
- Capable of performing simulations in MATLAB/Simulink.
- Create hydraulic schematics in Automation Studio.
- Safety compliance around heavy machinery, hydraulic systems, and electrical systems.
- Write engineering standards, technical specifications, and reports.

Education and Experience

- Presently pursuing or recently graduated from a bachelor's or master's program in mechanical engineering.
- Completed basic engineering classes and demonstrated the ability to work as a team member on class projects.
- Demonstrated work experience is a plus.
- Specific training and working experience with the following are ideal:
 - 3D CAD Systems, Siemens NX, or CREO.
 - Coursework or exposure to fluid dynamics, thermal dynamics, and internal combustion engines.
 - Diesel engine exposure and knowledge is a plus.

Job Knowledge, Skills, and Abilities

- Possesses good communication skills – oral, written, and listening.
- Detail-oriented and organized.
- Understands general safety precautions in an engineering environment dealing with large heavy machinery.
- Demonstrated computer skills and experience with Microsoft Office applications.
- 3D CAD experience required, MATLAB/Simulink
- Basic knowledge of materials, fluid power (hydraulics), diesel engines, statics and dynamics, and machine design.
- Knowledgeable and able to use various software programs like Publisher, NX, CREO, MATLAB/Simulink.
- Must maintain the highest level of confidentiality.
- Works well independently with minimal supervision and as part of a team demonstrating and great attitude.
- Able to interpret models and drawings.

Physical Demands:

- Required to sit for periods using a computer.
- May need to work on a machine and be able to climb up to levels of 10 feet, using hand tools and working with various machine lubricants and fluids.

Work Environment:

- Typical office and lab working conditions in environmentally controlled conditions.
- Shop and outside test in environmentally uncontrolled conditions.

Will be required to perform other duties as requested, directed, or assigned to assist with achieving stated project goals.

Interested candidates for a Summer Internship opportunity contact Zoomlion Human Resources at 262.835.1828, ext. 107, or send your resume to hr@zoomlion-na.com.

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