



Zoomlion Heavy Industry NA, Inc.

## Engineering Intern, Structures

### Position Objectives

The Structural Systems Engineering Intern reports to the Engineering Manager – Structural Systems, the structure 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:

- Perform structural analysis, design, and CAD modeling (NX/Teamcenter is what Zoomlion-NA utilizes).
- Participate in Finite Element Analysis (FEA) projects.
- Interact with multidisciplinary teams and develop structural and mechanical design requirements.
- Able to document projects, tests, and create reports.
- Eager to participate in continuous learning and professional development.
- Safety compliance around heavy machinery, hydraulic systems, and electrical systems.
- Can solve problems that occur during design processes.
- Possesses strong communication and collaboration skills.
- Integrate custom structural components for concept prototypes.
- Support various structural team product development tasks as assigned.

### Education and Experience

- Presently pursuing or recently graduated from a bachelor's or master's program in mechanical engineering.
- Basic understanding of structural analysis and design principles.
- Familiarity with material selection and testing processes.
- Completed basic engineering classes and demonstrated the ability to work as a team member on class projects.
- Demonstrated work experience 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.
- Able to interpret models and drawings.
- Able to organize work tasks and time to complete tasks within critical assigned deadlines.
- Must maintain the highest level of confidentiality.
- Works well independently with minimal supervision and as part of a team demonstrating and great attitude.

## 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](mailto:hr@zoomlion-na.com).

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