



Miller - St Nazianz Inc

## Project Engineer (Agricultural)

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Department: Engineering  
FLSA Status: Exempt  
Grade/Level:  
Work Schedule:

Job Status: Full Time  
Reports To: Engineering Project Manager  
Amount of Travel Required: 5% - 10%  
Positions Supervised:  
None

### POSITION SUMMARY

Perform engineering duties in regards to planning and designing agricultural machinery and components.

### ESSENTIAL FUNCTIONS

#### Reasonable Accommodations Statement

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. Reasonable Accommodations may be made to enable qualified individuals with disabilities to perform the essential functions.

#### Essential Functions Statement(s)

- Lead engineering projects from concept to production.
- Develop and review the structural design of products using drafting tools or computer-assisted design (CAD).
- Research, design, and evaluate current product designs.
- Confer with engineers and other personnel to implement operating procedures, resolve system malfunctions, and provide technical information.
- Recommend design modifications to eliminate machine or system malfunctions.
- Generate and create ECO and related engineering documents.
- Conduct research that tests and analyzes the feasibility, design, operation and performance of equipment, components and systems.
- Investigate equipment failures and difficulties to diagnose faulty operations, and make recommendations to fix.
- Develop and test models of alternate designs and processing methods to assess feasibility, operating condition effects, possible new applications and necessity of modification.

- Maintain knowledge of manufacturing methods and DFMA(Design for Manufacturing and Assembly).
- Specify system components or direct modification of products to ensure conformance with engineering design and performance specifications.
- Read and interpret technical drawings, schematics, and computer-generated reports.
- Research and analyze customer design proposals, specifications, manuals, and other data to evaluate the feasibility, cost, and maintenance requirements of designs or applications.
- Write performance requirements for product development or engineering projects.
- Assist in the design of test control apparatus and equipment and assist in the development of procedures for testing products.
- Provide technical customer service to the Service or Sales Departments.

## POSITION QUALIFICATIONS

### Competency Statement(s)

- Accountability - Ability to accept responsibility and account for his/her actions.
- Accuracy - Ability to perform work accurately and thoroughly.
- Analytical Skills - Ability to use thinking and reasoning to solve a problem.
- Conceptual Thinking - Ability to think in terms of abstract ideas.
- Detail Oriented - Ability to pay attention to the minute details of a project or task.
- Innovative - Ability to look beyond the standard solutions.
- Problem Solving - Ability to find a solution for or to deal proactively with work-related problems.
- Project Management - Ability to organize and direct a project to completion.
- Research Skills - Ability to design and conduct a systematic, objective, and critical investigation.
- Strategic Planning - Ability to develop a vision for the future and create a culture in which the long range goals can be achieved.

## SKILLS & ABILITIES

**Education :** Bachelor's Degree (four year college or university) in Agricultural or Mechanical Engineering.

**Experience :** Five to ten years related experience.

### Computer Skills

Knowledge of Microsoft Products required. Experience with 3D modeling software preferred.

### Certificates & Licenses

### Other Requirements

Knowledge or experience in the agricultural field required. Strong mechanical knowledge along with a background in hydraulics or electrical a plus.

## PHYSICAL DEMANDS

### Physical Demands

		Lift/Carry	
Stand	N (Not Applicable)	10 lbs or less	O (Occasionally)
Walk	O (Occasionally)	11-20 lbs	N (Not Applicable)
Sit	C (Constantly)	21-50 lbs	N (Not Applicable)
Handling / Fingering	N (Not Applicable)	51-100 lbs	N (Not Applicable)
Reach Outward	N (Not Applicable)	Over 100 lbs	N (Not Applicable)
Reach Above Shoulder	N (Not Applicable)	<b>Push/Pull</b>	
Climb	N (Not Applicable)	12 lbs or less	O (Occasionally)
Crawl	N (Not Applicable)	13-25 lbs	N (Not Applicable)
Squat or Kneel	N (Not Applicable)	26-40 lbs	N (Not Applicable)
Bend	N (Not Applicable)	41-100 lbs	N (Not Applicable)

**N (Not Applicable)** Activity is not applicable to this occupation.

**O (Occasionally)** Occupation requires this activity up to 33% of the time (0 - 2.5+ hrs/day)

**F (Frequently)** Occupation requires this activity from 33% - 66% of the time (2.5 - 5.5+ hrs/day)

**C (Constantly)** Occupation requires this activity more than 66% of the time (5.5+ hrs/day)

### Other Physical Requirements

## WORK ENVIRONMENT

Individual will work in an office environment with some access to the production environment.

The Company has reviewed this job description to ensure that essential functions and basic duties have been included. It is intended to provide guidelines for job expectations and the employee's ability to perform the position described. It is not intended to be construed as an exhaustive list of all functions, responsibilities, skills and abilities. Additional functions and requirements may be assigned by supervisors as deemed appropriate. This document does not represent a contract of employment, and the Company reserves the right to change this job description and/or assign tasks for the employee to perform, as the Company may deem appropriate.