

## Electrical/Controls Engineer

**Department:** Manufacturing Engineering  
**Reports To:** Manufacturing Engineering Manager  
**Location:** Dyersville, IA

### SUMMARY

The Electrical/Controls Engineer generates, and evaluates, design concepts for electrical components and assemblies to achieve new product and current product requirements. Provides technical expertise for product development team. This position works closely with Manufacturing and as a liaison between internal and external customers and manufacturing on Design intent issues.

### ESSENTIAL DUTIES AND RESPONSIBILITIES

- Support the design and development of new electrical products and modifications to existing products as required.
- Support Manufacturing: help identify and resolve electrical issues.
- Support other Team members regarding electrical content.
- Develop component part designs in line with industry and proper engineering practices in common materials.
- Responsible for improving quality of product; robustness and design of testing.
- Approves releases, and coordinates communication of Engineering Change Notices.
- Provides engineering analysis and implementation of design modifications recommended to accommodate continuous production and sale of existing products or improve product efficiency or cost.
- Responsible for generating, accumulating, and disseminating technical data on products needed by persons or groups within Modernfold, Inc and its Distributors.
- Responsible for maintaining state-of-the-art awareness of relevant product technologies.
- Responsible for originating ideas for new products, product features, and product modifications.
- Promotes organization in industry, manufacturing, or trade associations
- Represents the company to internal & external customers
- Work with prototype shop to construct working prototype models when applicable
- Work with patent attorneys to provide protection for product innovations
- Travel as necessary
- Perform other duties as assigned

### QUALIFICATIONS

The requirements listed below are respective to the knowledge, skill, and/or ability required. Reasonable accommodations may be necessary to enable individuals with disabilities to perform the essential functions.

## **EDUCATION AND EXPERIENCE**

Bachelor of Science degree in Electrical Engineering from an accredited college with 2-5 years' product design experience in a manufacturing environment. Computer literate in Word, Excel, Solid Edge, and AutoCAD.

## **LEADERSHIP SKILLS**

Ability to communicate and provide constructive feedback in a positive nature at all levels of the organization regarding performance and objectives. Ability to lead, mentor and delegate by providing management and employees with clear direction. Ability to take direction from Officers and display a positive "can-do" attitude, strong work ethic and utilizing strong problem-solving skills. Work independently and manage multiple tasks simultaneously. Ability to work under pressure with changing project priorities.

## **LANGUAGE SKILLS**

Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations. Ability to write reports, business correspondence, and technical manuals. Ability to effectively present information and respond to questions from groups of managers, clients, and customers.

## **MATHEMATICAL SKILLS**

Higher math skill required – geometry, trigonometry, calculus, etc. Ability to work with mathematical concepts, such as probability statistical inference. Ability to apply simple math concepts, such as fractions, percentages ratios, and proportions to practical situations. Ability to use key analytical metrics to drive manufacturing improvements.

## **PHYSICAL DEMANDS**

The physical demands described here are representative of those 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. Ability to work for extended periods of time at a workstation on a computer.

While performing the duties of this job, the employee is frequently required to sit; use hands to finger, handle, or feel; and talk or hear. The employee is occasionally required to stand, walk, and reach with hands and arms. The employee must occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus. Ability to work for extended periods of time at a CAD workstation. Ability to assist in assembling large mechanical assemblies. Good eyesight, hearing and sense of smell. Attention to detail. Occasional extended periods of standing, bending, kneeling.

## **WORK ENVIRONMENT**

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. CAD Workstation, Meetings, Mechanical Assembly, Sound Lab work. While performing the duties of this job employee may be exposed to wet and/or humid conditions; high precarious places; outside weather conditions within a manufacturing setting.