**Dynamic Design Solutions** **(DDS)** solves the manufacturing industry's most challenging problems with unique and creative solutions. Trusted by some of the largest and most influential manufacturing companies in the world, the DDS team of dedicated professionals delivers unique, high-quality, custom designed automation equipment.

**Summary**

Responsible to lead in the design implementation and assembly of custom equipment for various industrial applications. Projects vary from complex automation machines to simple cost-effective machine improvements and upgrades. Candidate will have experience with high-speed mechanisms, pneumatics, indexing machines and automated assembly equipment. Will work closely with customers to ensure their requirements and timeline are met.

**Essential Functions**

* Lead the engineering of custom automated equipment with responsibility for concept, design, fabrication, installation & successful implementation into full production.
* Select proper electromechanical components & analyze structures.
* Coordinate mechanical drawing & BOM creation & verify accuracy with respect to manufacturability and DDS standards.
* Work with vendors to solve fabrication issues, stay within budget constraints and mitigate scheduling conflicts.
* Manage multiple projects; develop schedules and budgets.
* Estimate equipment cost.
* Evaluate the complexity of new designs and recommend changes that will help reduce or eliminate manufacturing time and cost
* Perform traditional analysis in mechanics of materials, dynamics, stress, etc.
* Monitor and report progress toward engineering deliverables to the engineering manager. Define and execute a recovery plan if deliverables are not completed on schedule.
* Review and update labor estimates to complete each assigned job. Notify engineering manager when under or over capacity utilization situations are projected.
* Give technical direction to technicians as needed.
* Consult regularly with project managers to report status, raise issues, take direction, and help where needed.
* Participate in regular project status updates with customers.
* Present designs during internal and customer project reviews.
* Work with project managers, customers, designers, and toolmakers to solve problems to provide the customer with a complete functional system.
* Provide accurate documentation for each project.
* Inform and advise customer on solving technical problems.
* Provide customer with training specific to their current project: machine operation, programming principles, and program structure.
* Review design concepts and labor and material budget estimates supplied by applications engineers.
* Assist in formulating departmental strategic plan.
* Mentor, tutor & instruct draftspersons and designers on various projects

* Perform as a contributing member in working with other project team members to continuously improve methods of integrating design technology
* Analyze engineering drawings, and specifications to determine shape, dimensions, hardness, etc. in the development of equipment, processes, and products

**Education and Experience**

* BS Mechanical Engineering degree or equivalent experience preferred.
* 7+ years of relevant experience designing **automated** equipment and machinery preferred.
* Experience in designing & sizing servo motors, linear and rotary precision bearing systems, pneumatics, etc., preferred.
* Experience in design & analysis of welded structures preferred.
* 3D CAD solid modeling experience, preferably with SolidWorks.
* Knowledge of Microsoft Office Products.
* Ability to manage large complex projects with skills in precision mechanical & industrial automation.
* Knowledge of machine designs and common machine components including but not limited to drive systems, bearings, lubrication systems, actuation systems and other common machine elements.
* Estimating skills.
* Knowledge of Geometric Dimensioning and Tolerancing (GD&T) and Finite Element Analysis (FEA) preferred.
* Fabrication knowledge including machining, sheet metal welding and assembly of machine elements.
* Effective verbal and written communications.
* Leadership potential to lead a team or project.
* Able to follow an organized, disciplined approach to the design process.
* Successful experience troubleshooting complex equipment during project startup phases.
* Experience with high-speed mechanisms, indexing machines and automated assembly equipment.
* Must be a team player with a positive attitude.
* Excellent communication and interpersonal skills.

**Management Responsibilities**

This position has no direct reports.

This job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this position. Duties, responsibilities and activities may change at any time with or without notice.

**Position Classification**

This is a full-time, exempt salaried position. Depending on projects, overtime and/or weekend work may be required.

**Travel**

Travel is expected for this position. Estimated to be 10%.

**EEO Statement**

It is the policy of Dynamic Design Solutions Inc. to provide equal employment opportunities to all persons. In accordance with anti-discrimination laws, it is the purpose of this policy to effectuate these principles and mandates. DDS prohibits discrimination and harassment of any type and affords equal employment opportunities to employees and applicants without regard to race, color, religion or belief, national, social or ethnic origin, sex (including pregnancy), age, physical, mental or sensory disability, HIV status, sexual orientation, gender identity and/or expression, marital, civil union or domestic partnership status, past or present military service, family medical history or genetic information, family or parental status, or any other status protected by the laws or regulations.

**I acknowledge that I have received, reviewed and understand the job description.**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_**