**Job Title:** R&D Engineering Technician

**Department:**  R&D Engineering

**Reports to:**  R&D Engineering Manager

**Supervisory Responsibility:** No

**FLSA Status:**  Non-exempt

**Physical Demands:** Level I

**Job Summary:** Provide technical support in the design, assembly, and testing phases of product development. Have a strong foundation in mechanical engineering techniques, proficient in SolidWorks CAD software, and experienced in generating detailed technical documents.

**Essential Duties and Responsibilities:**

* Generate assembly drawings, bills of materials, and work instructions to support the manufacturing process.
* Build, inspect, and perform quality control checks on optical subassembly components, ensuring all parts meet design specifications and quality standards.
* Conduct device characterization and testing with minimal supervision, ensuring devices perform according to required specifications.
* Design and draft precise 2D and 3D models using SolidWorks CAD software, contributing to the development of high-quality technical drawings and schematics.
* Collaborate closely with the R&D Engineering Manager and other team members to ensure designs and assemblies fulfill technical and functional requirements.
* Maintain and update a library of standard drawing templates and manage the documentation of changes in technical drawings and project specifications.
* Generate technical documents, including material lists and cost estimates, to aid the engineering and manufacturing processes.
* Provide ongoing technical support throughout the product lifecycle, from project initiation to end-of-life (E.O.L.), including the development of installation guides and assembly instructions.
* Assist in the troubleshooting and refinement of existing products, as well as the innovation of new products.
* Use Microsoft Office 365 Planner for task and project management, showcasing strong organizational and analytical abilities.

**Desired Qualifications:**

* 2+ years’ experience as an Engineering Technician, CAD/Drafter, or similar technical field.
* Highly proficient in SolidWorks CAD software.
* Familiarity working with SolidWorks PDM Software.
* Experience in building and inspecting mechanical and LED optical components, with a keen eye for detail in post-assembly quality control.
* Ability to work independently to perform device characterization and other technical tasks.
* Strong communication skills, essential for effective collaboration within the R&D team and across other departments.
* A proactive approach to completing projects and a strong desire to drive engineering innovation.
* Familiarity with Microsoft Excel and Word.
* Relevant education in Engineering or a related field; equivalent experience may also be considered.

**Educational/Certification/License (Preferred, Not Required)**

* Applied Engineering/Technical Degree (Accredited College)
* CSWP Certification

Please note 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 job. Duties, responsibilities, and activities may change at any time with or without notice.

***Barn Light Electric is an equal employment opportunity employer***

**Acknowledgement**

I have received, reviewed and fully understand the above job description. I further understand that I am responsible and capable of fulfilling the satisfactory execution of the essential duties and physical demands described therein, under any and all conditions as described.

Employee Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Employee Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_