



SEMLER INDUSTRIES, INC.
3800 North Carnation Street
Franklin Park, IL 60131-1202
<http://www.semleindustries.com>
Phone: (847) 671-5650
Fax: (847) 671-7686
E-mail: hr@semleindustries.com

Profile **Quality / Test Engineering Intern**

Updated 1/4/18

FUNCTION OF THE JOB:

Primarily this role will involve testing equipment and performing quality assurance inspections for all equipment that leaves the company. There will also be development and destructive testing performed. Additionally creatively identify, design and develop new products and product modifications for Semler brand or private label equipment. Demonstrate value to the organization through effective use of business time while being detail-oriented to assure world-class equipment and productivity.

MAJOR RESPONSIBILITIES:

1. Learn and understand the features and benefits of the company's existing products.
2. Testing completed equipment to confirm operation and metrics meet design requirements.
3. Use of electrical, plumbing, mechanical and chemical disciplines to correctly identify all components necessary to meet the customer requirements. This includes complete bill of materials creation.
4. Support the sales team in preparation of quotations and sales orders to ensure product compatibility with customer needs.
5. Assist in the evaluation, design, or re-design of capital equipment and applicable after-market components by analyzing current customer application parameters and selecting the appropriate products. Requires working with sales, QA, and manufacturing support at customer locations to design process solutions.
6. Use of ProE / Creo (latest version) expected for 3D modeling purposes for production-style equipment.
7. Use of AutoCAD for 2D drawings for one-off equipment designs is required.
8. Knowledge of basic circuit board design is beneficial (Arduino, Raspberry pi, etc)
9. Brainstorming new product ideas and watch for concepts that may be relevant in new markets or changing markets.
10. Learn competitive products and channels in the marketplace. Gain a firm grasp of the marketplace to monitor competitor activity and assist in developing plans to successfully compete.
11. Occasional field startup observation. Will require travel 10% of the time.
12. Creation or assistance in developing installation and operation manuals for products created.
13. Attend seminars and vendor product training sessions provided by the Company to improve technical product knowledge and ensure consistent documentation and processing of jobs.
14. Comply with all Company Policies as contained in the Policy Manual.

OTHER RESPONSIBILITIES:

1. Assist in first article equipment production to look for improvements in manufacturability
2. Track and report business expenses regarding travel, meals, entertainment, car usage, and telephone.
3. Work with B2B Sales to assist Purchasing by preparing purchase order requisitions for non-stock components to complete a customer sales order or work-in-process job.
4. Attend and participate in trade shows designed to demonstrate the Company's products and assist in obtaining customer' leads.
5. Perform related tasks in accord with Company established guidelines, practices, and techniques.

PHYSICAL REQUIREMENTS OF THE JOB:

Requires frequent phone contact with customers, vendors, co-workers and others. Some over-the-road travel with occasional travel by air. While on Company' premises, requires frequent climbing and descending of stairs, walking, and sitting. May require physically demonstrating a product at customer location(s) and trade show.

MINIMUM ACCEPTABLE QUALIFICATIONS:

Pursuing a mechanical engineering degree from a recognized school is a minimum. Preferred junior or senior year. Chemical engineers with the requisite 3D modeling skills and interest may be considered. Requires a willingness to learn, attention to detail, and the ability to grasp and retain information. Must have excellent listening, planning, problem solving, and organizational skills. Requires the ability to effectively communicate both orally and in writing, and the ability to listen and react accordingly; using both tact and diplomacy to maintain good working relations with co-workers and others. Computer knowledge is required as well as a valid driver's license. Must be able to speak, write, and comprehend written and verbal instruction in English. Interest in quadcopters or drones a plus!

HOUSEKEEPING ASSIGNMENT: Work area and files, both physical and electronic drives.

EMERGENCY EXTERIOR LOCATION: EEL-1