

**Requisition: SYM HR 20-003 Posting**

**Date: November 12, 2020**

**Location: Raleigh**

**Title: Machine Designer**

**Description:**

We are a small growing engineering company headquartered in Raleigh, North Carolina with a satellite office in Columbia, South Carolina seeking qualified solid modeler with a technical engineering background to design specialized machines for powertrain testing, gauging and manufacturing systems. Symbrium works with technical communities inside some of the largest corporations in the world that produce such things as aircraft engines, wind turbines, locomotives, automotive powertrains and other highly engineered systems.

**Responsibilities:**

- Synthesize machine concepts using solid modeling working closely with a dedicated team of engineers and project managers.
- Create machine layouts using solid modeling based on approved concepts and functional specifications.
- Work with the design and engineering team to generate complete packages of detail drawings, bills of materials and assembly instructions that are sufficient for the procurement and fabrication of parts and machine assemblies.
- Assist the engineering and build teams in the assembly, integration and validation of machines on the floor.
- Ensure compliance to design and quality standards. Mandatory Qualifications:
- US Citizen
- 2 Year Degree in Engineering or related technical field
- Expert level proficiency in SOLIDWORKS
- Basic engineering math and physics including the construction of free body diagrams, simple stress analysis and trigonometry
- Excellent organizational and communication skills are required

**Desired Special Skills:**

- Working knowledge of Geometric Dimensioning and Tolerancing
- Working knowledge of mechanical power transmission element design such as gears, shafts and bearings

**Other:**

A skill test will be administered to all persons who interview for this position including a basic engineering knowledge quiz and a CAD exercise. Growth potential is Lead Designer or Project Manager.