

# Mechanical Engineer

Symbrium, Inc. has immediate openings at our Raleigh, NC office for full-time Mechanical Engineers to work on a number of programs involving the following types of applications:

- Powertrain Research & Development Equipment
- Special Machinery
- Industrial Automation

Part-time student intern and coop positions are also available.

## **Responsibilities:**

- Conduct design and optimization of mechanical components for rotating machinery and industrial equipment. Typical components include gears, shafts, bearings, couplings, flanges, housings, clutches, torque meters, encoders, etc.
- Perform mathematical and computer analysis of mechanical systems, including Finite Element Analysis for structural, fatigue, thermal, vibration, and acoustics.
- Analyze and Specify electro-mechanical and electro-hydraulic systems.
- Develop manufacturing drawings in accordance with applicable standards.
- Construct and oversee technicians in fabrication and integration of developed systems.
- Interface with outside vendors for component selection, manufacturing, and assembly.
- Confer with system engineers and other personnel to implement operating procedures, resolve system malfunctions, and provide technical information.
- Research and analyze customer design proposals, specifications, manuals, and other data to evaluate the feasibility, cost, and maintenance requirements of designs or applications.
- Specify system components or direct modification of products to ensure conformance with engineering design and performance specifications.

## **Qualifications:**

- Bachelor or Master of Science Degree in Mechanical Engineering, Electrical Engineering, Math, Physics or related technical field. Student interns and coops should be pursuing degrees in the above areas.
- Outstanding mechanical aptitude with diverse knowledge of machinery and industrial systems.
- Excellent problem solving and time management skills.
- Proficient in solid modeling (preferably SolidWorks), GD&T and FE analysis.
- Working knowledge of electronic equipment, PLCs, computer hardware and software.
- Self-motivated and highly organized
- Strong verbal and written communication skills

## **Application:**

Please submit resumes to [HR.Manager@symbrium.net](mailto:HR.Manager@symbrium.net) or submit online at [www.symbrium.net](http://www.symbrium.net). Symbrium, Inc. is an equal opportunity employer.