Research Manager-Switchgear

Since 1905, G&W Electric has helped power the world with innovative power systems solutions and products. With the introduction of the first disconnectable cable terminating device in the early 1900s, G&W began to build a reputation for engineering creative solutions to meet the needs of systems designers. Solutions which today have extended far beyond cable accessory products and into the latest in solid dielectric and SF6 insulated switchgear, solid dielectric insulated reclosers, system protection equipment, distribution automation solutions, and distribution and transmission cable accessories. Located in Bolingbrook, Illinois, USA, the plant covers over 371,000 square feet and represents a showplace of modern engineering, manufacturing and marketing technology.

Why join us? G&W enjoys a long reputation for product quality, innovation and world-class customer service to the power industry. We have established this reputation by believing that our greatest asset is our employees. We owe our success to the initiative and talents of highly skilled individuals within our team-based organization. Our goal is to set the standard for customer satisfaction by ensuring a superior level of service, performance and innovation. As a global organization and industry leader, we are committed to cultivating an engaging work environment that embraces our core values and develops our talent. Our continuous focus on growth and innovation means that you become part of a company that provides challenging opportunities, rewards excellence and combines your individual expertise to achieve a higher level of shared success.

SUMMARY OF RESPONSIBILITIES:

Manage team responsible for researching new products and technologies and developing proof of concept prototypes. Perform Technology feasibilities, both paper and prototypes. Test and validate new design concepts. Collaborate with Development team to develop new products.

ESSENTIAL DAY TO DAY FUNCTIONS:

- Build, develop, and lead Switchgear Research team.
  - Provide team members direction on strategic vision and develop/drive departmental goals that support short and long-term plans.
  - Provide engineers with technical guidance, focused on continually improving development.
  - Responsible for managing resources within the group to be in line with workload and schedule commitments on projects.
  - Perform technology feasibility studies, both paper and prototypes.
  - Applies research theories, principles and models when conducting experiments and research activities.
  - Create conceptual designs and Design, Build and Test prototypes.
  - Create CAD models, drawings and sketches as necessary.
  - Create 2D and 3D finite element models from existing CAD files.
  - Manage execution of finite element modeling and check design feasibility. In electrical, electro-magnetic, mechanical, thermal and multiphysics environment.
  - Accountable for the performance and results of a team, adapts plans and priorities to address resource and operational challenges. Responsible for providing employee coaching, establishing training and development plans, and implementing necessary corrective action plans.
- Responsible for determining optimal design concepts and fundamental technology used for new products or improvement for existing ones.
- Develop and execute the Switchgear Product Research strategic plan and budget.
- Assist in creating and maintaining G&W's global network of product research engineering.
- Assist in developing and maintaining the G&W global Technology Roadmap.
- Closely collaborates with members of Development team.
- Prepare written documentation of processes, material requirements, test results and project activity as required.
- Responsible for summarizing research results and communicating findings to internal and external bodies.
- Develop schedules, coordinate and manage feasibility projects of minor to major size with little to no supervision.
- Interface with purchasing and vendors in the selection and approval of component parts and assemblies.
- Prepare budgetary and resource information regarding projects or parts of projects in area of responsibility.

**Required Knowledge, Skills and Abilities:**
- Expertise in electrical and electromechanical design, power electronics, and systems integration
- Demonstrated ability to successfully research complex projects with sound planning and persistent execution; will understand how to align resources, seek the input of key constituents, and manage others to achieve desired results;
- Ability to interpret and follow technical standards
- Flexibility in terms of dealing with changing priorities and dealing with multiple projects simultaneously.
- Strong interpersonal, teamwork and problem-solving skills
- Ability to travel within and outside USA.
- Knowledge of DFSS and Lean including: DOE, Capability & Control, FMEA, MSE, DFM, etc.
- Excellent verbal and written communications skills
- Demonstrable ability to interpret technology / market trends as a foundation for technology and product roadmaps
- Working knowledge of manufacturing and production processes, materials and material mechanics
- Knowledge of power systems and medium/high voltage circuit breakers is a plus.
- Experience with COMSOL software preferable.
- Knowledge of PRO-E or other 3-D CAD systems.
- Knowledge of advanced FEA skills, like transient analysis.
- Wide degree of creativity
- High degree of initiative to finish tasks on time
- Drive to learn new methodologies

**QUALIFICATIONS / EDUCATION**
- BS Engineering (Mechanical or Electrical preferred)
- 10+ plus years engineering experience in a Product Research or Development environment
- 5+ years in a managerial role
- Experience in power industry a plus

G&W offers a competitive salary commensurate with the candidate’s level of experience, as well as an excellent benefits program including medical, dental, short term/long term disability, life insurance, and a 401(K) retirement plan.

To apply please send your resume to careers@gwelc.com

EEO M/F/Vet/Disability