

ELECTRICAL ENGINEER JOB DESCRIPTION

Design, develop or supervise the installation of electrical equipment, components, or systems for commercial, industrial, or utility use.

ESSENTIAL FUNCTIONS:

- Confer with engineers, customers, and others to discuss existing or potential engineering projects and products.
- Design, implement, and improve electrical facilities and systems for commercial, industrial, and utility purposes.
- Operate computer-assisted engineering and design software and equipment to perform engineering tasks.
- Direct and coordinate construction, installation, maintenance, support, documentation, and testing activities to ensure compliance with specifications, codes, and customer requirements.
- Perform detailed calculations to compute and establish construction and installation standards and specifications.
- Plan and implement methodologies and procedures to apply principles of electrical theory to engineering projects.
- Prepare specifications for purchase of materials and equipment and/or the solicitations of labor.
- Supervise and train project team members as necessary.
- Oversee project construction efforts to assure projects are completed satisfactorily, on time and within budget.
- Prepare and study technical drawings, specifications of electrical systems, and topographical maps to ensure that installation and operations conform to standards and customer requirements.
- Investigate customer complaints, determine nature and extent of problem, and recommend remedial measures.
- Plan layout of electric power generating infrastructure, distribution lines, transmission lines and substations.
- Assist in developing capital project programs for new equipment and major repairs.
- Develop budgets, estimate labor, material, and construction costs.
- Compile data and write reports regarding existing and potential engineering studies and projects.
- Conduct field surveys and study maps, graphs, diagrams, and other data to identify and correct power system problems.
- Maintain a high level of integrity and discipline with a strong work ethic.

QUALIFICATION REQUIREMENTS:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. Must have knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services. Must have knowledge of drafting and experience with AutoCAD and Microsoft Office. Must have the ability to establish and maintain effective working relationships with team.

EDUCATION AND/OR EXPERIENCE:

Wisconsin Professional Engineering License, or the capacity to obtain one, is desired; or any other equivalent combination of education, training, and experience that provides the requisite knowledge, skills, and abilities for the job.

PHYSICAL CAPABILITIES:

Must be able to pass alcohol and drug screening test. Reasonable accommodations may be made to enable individuals with disabilities to perform essential tasks. Ability to perform low impact physical tasks. May involve lifting of up to 50 lbs.

DESIRED EXPERIENCE:

Experience with the following software packages is desirable: Power Tools for Windows, Millsoft Windmill and Light-table, Southwire SAG10, Osmose O-Calc, MH ARCPRO 2.0, SEL AcSELerator, Cooper ProView, ABB AF Suite.

TRAVEL:

Travel will be required.

SUPERVISORY RESPONSIBILITIES:

May have supervisory responsibilities.

LICENSING OR CERTIFICATION REQUIREMENTS:

Valid driver's license. Professional engineer's license is desired.