



**Power System
Engineering, Inc.**

1532 West Broadway, Madison, WI 53713

www.powersystem.org

Job Description

This is an exciting time to join Power System Engineering (PSE). We have been partnering with electric utility, energy, agriculture, and industrial clients for over 40 years providing innovative engineering and consulting services and solutions. As an industry leader, PSE fosters a culture focused on our employees and clients, forward-thinking, innovation, integrity, and safety which drives the growth and success of our company, and supports our clients in managing their power grid, water supply, gas systems, and communications networks more effectively.

General Summary:

PSE is growing and looking for a full-time energetic Line Design Engineer who will be part of a larger team of engineers and technicians in our Utility Engineering and Design department. The ideal candidate will perform engineering related functions to support electric transmission and distribution line design. Work entails the selection and analysis of line structures, layout or spotting of structures within land corridors, and development of design specifications. Power line voltages range from 2.4kV to 230kV. In addition, the new team member will have significant opportunities to interact with clients, be exposed to exciting projects, and be surrounded by a network of supporting colleagues.

Responsibilities:

The following are essential responsibilities of this position and do not include marginal functions that are incidental to the performance of the fundamental job duties. The scope and duties of this position may change or be altered based on the business needs of the company. The basic requirement of every position is to perform all tasks as assigned by the supervisor.

- Develop electric power transmission and distribution line design standards.
- Route and design transmission and distribution lines.
- Perform structure loading analysis and calculations.
- Work with line design software including AutoCAD, PLS-CADD, Sag10, and in-house Excel spreadsheets.
- Develop design documentation including staking sheets, plan & profiles, and material specifications.
- Develop construction specifications and contracts, coordinate pre-bid meetings, evaluate bids and proposals, and provide contract award recommendations for transmission and distribution construction projects.
- Perform work order inspections on recently constructed transmission and distribution facilities to ensure compliance with RUS, NESC, IEEE, ANSI, and other applicable standards.

Line Design Engineer

Minimum Requirements:

The following are minimum requirements of this position.

- 4-year degree in Civil or Mechanical Engineering.
- Ability to obtain Professional Engineer license within a 4-year period of hire date.
- Working knowledge of computer software including AutoCAD, MS Excel, and MS Word.
- Knowledge of electric utility systems, line design, and surveying practices is a plus.
- Possess basic knowledge for structural calculations, computer applications, and technical writing.
- Possess ability to achieve quality results, be change-oriented, foster innovation, and be a continuous learner.
- Use effective communication skills (both written and oral), be customer-driven, and display teamwork behavior.
- Possess ability to continually identify and recommend process and/or system improvements to facilitate efficiencies in line design.

Working Conditions:

- Normal office conditions
- Some field work and overnight travel
- Field conditions require working in rough terrain and all-weather conditions
- Some overtime may be required

Working Relationships:

Internal: Peers, management.

External: Electric utilities, state and local governments, consultants, construction contractors, vendors.

How to apply:

Email a cover letter and resumé, as one .pdf document, to jobs@powersystem.org; use the name of the position you are applying for as the subject line of the email.

PSE offers an excellent benefit package which includes paid time off, 401(k), health, dental, vision and life insurance.

PSE conducts drug screening and background checks on applicants who accept employment offers.

Authorization to work in the United states without visa sponsorship is a precondition of employment.

Power System Engineering is an Equal Opportunity/Affirmative Action institution and does not discriminate on the basis of race, sex, gender identity, marital status, pregnancy, sexual orientation, age, disability, veteran status, religion, color, ancestry, or national origin or any other characteristic protected by federal, state or local laws. Our management team is dedicated to this policy with respect to recruitment, hiring, placement, promotion, transfer, training, compensation, benefits, employee activities and general treatment during employment.