



**Team of Position**  
Design Team  
**Reports To**  
Design Team Lead  
**Office Location**  
Liberty Lake  
& Helena  
**FLSA Status**  
Exempt

## Senior Electrical Designer

H2E inc. is an electrical engineering and design consulting firm that services industrial clients in diverse industries. We exist to solve problems, and to make each client's facility better, cleaner, and safer. With offices located in both Liberty Lake, Washington and Helena, Montana, we employ and develop talented individuals who strive for excellence in their field.

### Position Summary:

**The Senior Electrical Designer** possesses functional knowledge of electrical power and automation systems. They can perform assignments designed to develop professional engineering work, knowledge and abilities. It requires application of standard techniques, procedures and criteria in carrying out a sequence of related engineering tasks. Demonstration of judgement is required on details of work and in making decisions and adaptations of engineering alternatives. In general, the Senior Electrical Designer will be responsible for performing electrical design duties on projects including power distribution, electrical design, process control design, and instrument and control design.

### Essential Responsibilities:

#### Technical

- Provide complete design services to meet customer specifications, drawings, and control & power system requirements
- Design electrical layouts, drawings and wiring diagrams, working from instructions, vendor or client drawings, proposals, specifications and other information provided by Engineers and/or clients.  
Examples are:
  - Plot plans, cable routing, grounding, lighting plans, site electrical plans, single line diagrams, load calculations, panel layouts, wiring diagrams, cable and conduit schedules and other electrical plans, details, sizing and layout
  - P&ID's, detailed industrial control panel layouts, bills of material, schematics, wiring diagrams, PLC I/O drawings, Network Communication, Hardwired interlock, block diagrams, and general details
  - Assembled documentation packages, provide estimates, schedules, material lists, design concepts, design specifications, design drawings and other documentation for facilities which are reviewed by an Electrical Engineer and/or Project Manager
- Have a strong ability to read power and motor control circuits and working knowledge of power and/or instrumentation design (Conduit sizing, simple loop diagrams, etc.), perform calculations for lighting, voltage drop, grounding, service/feeder size
- Comply with standards and procedures of H2E, its clients and customers
- Have a working knowledge of NFPA 70, NEMA ratings and area classifications
- Use computer aided design equipment and/or conventional design stations, technical handbooks, calculators, and ability to obtain technical information from various sources to implement designs
- Perform fieldwork and technical research - visit construction/plant sites and fabrication shops during design phase on as required basis



### **Leadership / H2E & Project Management**

- Has a working knowledge of project execution concepts and practices
- Assign tasks to and coordinates with Staff Designer and Drafters, administrative staff and supports Power and Controls/Automation Engineers
- Provides direct managerial support for Design Staff personnel including interviewing of potential staff candidates, hiring recommendations, direct supervision of staff, training and mentoring, resource allocations and recommended disciplinary actions if required
- Assist in completing projects within scope, on time and on budget with safety and quality requirements met.
- Monitor project execution via project schedules
- Perform Client Management (CM) activities and foster new relationships for the benefit of H2E

### **Communications**

- Provide technical guidance, training, and development of staff through review of project work involving electrical design with quality and accuracy
- Collaborate with engineering staff and other personnel to find solutions throughout the design process
- Represent the organization in communications and documentation pertaining to aspects of assigned engineering tasks
- Interact with contractors, clients, and facility operators
- Possess effective oral and written communication skills

### **Ownership / Growth / Direction**

- Can work independently with minimal supervision upon assignment of tasks. May require some technical and/or procedural help
- Continual self-improvement in latest technology and equipment in the industry
- Continual self-improvement in interpersonal skills and effective oral and written communications
- Follow Company policies, procedures and work instructions as found on the Company network

### **Minimum Qualifications:**

- Must be able to work in the U.S without current or future sponsorship.
- Minimum of 10 years electrical design experience with a background in Consulting Engineering or Industrial/Utility facility design/operation
- AS degree in Electrical or CAD/Drafting Technology required, BS degree is preferred
- Efficient in the use of Autodesk's AutoCAD for preparation of electrical drawings (AutoCAD Electrical Package experience is a plus)
- Experienced with national electrical codes and electrical industry standards
- Experienced in process controls, and medium/low voltage electrical distribution
- Have general knowledge of other related disciplines (mechanical & structural)
- Ability to work efficiently and effectively when managing multiple tasks
- Effective oral and written communications and excellent interpersonal skills with the ability to work through the resolution of project related issues
- Must be self-motivated, results oriented, and be flexible to work well under tight schedules in a fast-paced team environment
- Efficient in the use of MS Office software suite: Outlook, Excel, Word, OneNote, Project and Access



### **Compensation:**

- Competitive Wages (\$35.00- \$50.00 DOE)
- Health/Dental/Vision Benefits/401k
- Flexible Hours
- Holiday, Sick, and Vacation Time
- Opportunity for Advancement
- Amazing Team Environment

### **How to Apply:**

Please review the position posting and respond with cover letter and resume. Including previous work samples as appropriate is highly encouraged. Apply via E-mail to [recruiting1@H2Einc.com](mailto:recruiting1@H2Einc.com).