

**ELECTRICAL ENGINEER****Salary:** *Commensurate with experience***Job Description**

The Electrical Engineer will work in our office and remotely with teams of architects and electrical/mechanical engineers to design technical solutions to meet our client's business needs. The successful candidate will integrate work with our other licensed engineers and team members to design power, lighting, emergency/standby power systems, and fire alarm systems for new and existing buildings in our MEP market projects. Engineer will also have growth opportunity in our Industrial market projects in the design support of power, distribution and lighting systems, arc flash analysis for manufacturing, and other industrial and commercial facilities.

Typical Duties:

- Design full electrical systems including power, lighting, and lighting control systems
- Field walk down of client sites, equipment, and panels
- Prepare and modify single line diagrams for the power distribution system, bill of materials, panel schedules, control wiring diagrams, schematics and wiring termination drawings and cable routing
- Power distribution, calculations, and sizing including switchboards, panel boards, transformers, wire sizing, voltage drop, conduit fill, cable tray sizing and fill, AIC calculations, data systems, and telecommunications equipment
- Design and specification for emergency generators and UPS
- Prepare load analysis for different stages of design
- Develop construction drawings and review work packages
- Prepare grounding and bonding plan for new equipment
- Coordination with the electrical utility for service
- Prepare basis of design report for projects
- Prepare and document energy compliance calculations and forms
- Provide electrical construction administration services (RFI, inspections, shop drawing reviews, etc.)
- Coordinate work with engineers of other disciplines and architects
- Attend meetings and communicate with clients to establish their needs and discuss design issues with them
- Monitor quality work and interface with clients
- Manage project interdependencies, work area or technical skills set

Education and Experience:

- BSEE from an ABET accredited Engineering Program
- Minimum 8 years' relevant work experience in electrical engineering
- PE License required
- Demonstrated leadership traits
- Excellent computer skills in Microsoft Office Suite
- Demonstrated expertise in AutoCAD, and Revit

Skills and Requirements

- Effective communications skills
- High level of initiative and ability to work independently, as well as effectively in teams
- Capacity for follow-up with limited supervision
- Excellent attitude, attention to detail and interpersonal skills
- Excellent documentation practices
- Excellent organizational skills
- Data Analysis
- Self-motivated
- Sensitivity to client's needs and demands as well as project budget and schedule
- Ability and willingness to work additional hours on projects as required to achieve clients' deadlines

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