

## **Electrical Designer**

### **Job Titles**

- Electrical Designer I

### **Reports to**

- Vice President of Electrical Engineering.

### **Position Overview**

- Under the direction of the Electrical Engineer and Project Manager, the electrical designer applies electrical theory to design and specify lighting and power systems, performs lighting calculations and circuit loading calculations, completes energy code compliance documentation, participates in coordination meetings with design team members and clients, corresponds with vendors and contractors, performs site surveys, observes construction projects, edits specifications, and reviews submittals.

### **Duties and Responsibilities**

- Electrical Designer I
  - Proficient in REVIT.
  - Conduct site surveys and documents existing conditions.
  - Develop preliminary receptacle layout and circuiting.
  - Develop preliminary lighting layout and circuiting.
  - Develop preliminary fire alarm device layout.
  - Develop preliminary one-line diagrams.
  - Develop preliminary data device layout.
  - Demonstrate some understanding of Codes and Standards (National Electrical Code, Illuminating Engineering Society, National Fire Alarm Code, and Telecommunications Distribution and Methods Manual) and is willing to engage in Code research.
  - Shows initiative in learning design software like Acuity Visual and SKM PowerTools for Windows.

### **Qualifications**

- Electrical Designer I: Two- or four-year degree in engineering or technology related subject area.

### **Working Conditions**

- Generally, work is in a typical office environment.
- Travel to client meetings is required.
- Travel to project sites and the ability to document existing conditions is required.
- Travel to construction sites and the ability to observe and document construction progress is required.
- Compliance with client and job site superintendent safety protocol is required.
  - Hard hats, safety toe shoes, hi-visibility vest, ear and eye protection are sometimes required to be used.
- Some evening and weekend work is required.
- Occasional overnight travel is required.