

Electrical Designer

Evansville, Indiana Office

RT Patterson has an immediate opening in our expanding Evansville, IN regional office for a full-time electrical designer. Candidates should be able to fulfill the following requirements and responsibilities at a minimum.

REQUIREMENTS:

Five or more years of recognized experience working as an Electrical Designer where activities required the design of:

- electrical equipment general arrangements
- exposed conduit systems
- embedded conduit systems
- cable tray systems
- cable schedules

Knowledgeable of the National Electrical Code (NFPA 70).

Proficiency in verbal and written communication is required.

Proficiency with AutoCAD 2D. (3D is preferred)

Must be self-motivated and responsible, with the ability to work well with others in a team environment.

Ability to interact efficiently with engineers, owner/clients, contractors and fabricators.

RESPONSIBILITIES:

Develop complete designs including electrical general arrangements, exposed conduit, embedded conduit, cable tray, and cable schedules using single line diagrams, electrical control schematics, P&I Diagrams, mechanical equipment drawings, structural steel drawings, foundation/civil drawings, and site general arrangement drawings as a basis.

Assume responsibility for technical accuracy and constructability of detailed designs of complex projects, and work with limited supervision.

Performs basic design calculations for cable ampacity, conduit fill, cable tray fill, and electrical clearances based on the NFPA 70.

Perform required field work to document existing conditions including equipment, conduit, and cable trays. Use knowledge of NFPA 70 and conduit and cable tray properties to determine field routing of new installations and upgrades.

Work with the Electrical Engineer to complete design projects, share information collected in the field, and interpret sketches and project notes provided by the engineer.