Electrical CAD Designer

Alpharetta, GA, US

30+ days ago
Requisition ID: 1122

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Salary Range: $20.00 To $30.00 Hourly

Job Summary:
We are seeking a skilled Electrical CAD Designer to join our team. The ideal candidate will have experience in drafting and designing electrical systems, particularly within the oil and gas industry. This role requires expertise in AutoCAD Electrical, industry codes and standards, and electrical distribution systems. The Electrical CAD Designer will work under general supervision, exercising technical judgement to complete design tasks efficiently while providing guidance to junior staff.

Key Responsibilities:

- Work on multiple design tasks within projects, handling assignments of moderate complexity.
- Provide input on task planning, including estimating completion time.
- Mentor and guide entry-level technical staff, both formally and informally.
- Exercise technical judgement in determining appropriate work methods, with work reviewed at key project milestones.
- Create sections and elevations based on plan layouts.
- Use AutoCAD Electrical to:
  - Set up projects and drawings.
  - Generate reports and extract/insert data automatically.
  - Accelerate project-wide processes.
- Ensure compliance with industry codes and standards, including:
  - NFPA 70
  - NEC 240, 250, 392
  - API RP 500
  - NEC – Chapter 3
- Apply knowledge of hazardous area classification in facility layouts.
- Read, modify, and create schematic diagrams while maintaining proper links.
- Provide accurate time estimates for assigned design tasks.
- Design and draft electrical systems for various oil and gas industry applications, including:
  - Unit pumps and boosters
  - Metering and proving systems
  - Injection and filtering systems
  - Relief systems
  - Tankage
  - Substations
  - Electrical distribution control centers
  - Switchgears
  - Generators
- Understand and incorporate components such as:
  - PLCs (Programmable Logic Controllers)
  - Automated valves
  - Field instrumentation