

Electrical Engineer

DESCRIPTION

Responsible for the design of electrical systems for KCL Engineering that meet KCL Engineering standards, client expectations and system budget. Works within department, office, and company teams to produce design documents. Provides consultation and construction administration for systems designed.

ESSENTIAL DUTIES

- Demonstrate an understanding of the client's business and an in-depth knowledge of responsibilities and relationships between owner, consultant, contractors, and suppliers in order to protect client's interest.
- Perform design calculations and code research.
- Discuss design concepts with client; write and edit specifications for system design.
- Provide support to other engineers and designers.
- Maintain schedule and meet deadlines.
- Provide costing estimates for systems assigned.
- Communicate and coordinate work in progress with team members, and be able to work on multiple projects at the same time
- Cross reference drawings with meeting notes
- Conduct field survey for remodel and/or addition projects.
- Create schematic, design development, and construction documents.
- Review documents for accuracy, cross check with other trades, and coordinate with mechanical, electrical, structural, and architectural personnel.
- Make site visits to projects during construction.
- Review shop drawings.
- Perform construction administration responsibilities.
- Troubleshoot problems and communicate with appropriate parties.
- Adhere to CAD, Revit, and KCL Engineering standards.
- Keep abreast of changes, new technology and trends in the area of expertise and recommend changes and new services as appropriate. Recommend updated procedures and methods where appropriate
- Participate in quality control reviews
- Participate as a team member, contributing ideas and possible solutions, while providing opportunities for leadership development.
- May require work or attendance at meetings beyond normal workday.
- Ability to operate computer and various other office, software, and engineering tools/equipment.
- Other duties as assigned.

EDUCATION/EXPERIENCE

Entry level position.

Bachelor of Science in Engineering preferred.

No experience required with a Bachelor of Science degree, or

Four years of experience in related position with no degree.

REQUIRED KNOWLEDGE/ABILITIES

- Independent judgements such as setting task priorities, evaluating results, coordinating with others, etc.
- Skills in understanding, explaining, teaching, and influencing people are important to achieving job objectives, causing action, or understanding in others
- Requires in depth knowledge of own discipline (electrical, mechanical, structural, or information systems) and a knowledge of construction in general.
- Requires the ability to integrate theoretical and practical information and apply that information for construction projects
- Excellent communication and human relation skills
- Ability to solve a variety of complex problems where only limited standardization exists, or in the absence of technical guidelines or precedents
- Requires a commitment to quality and teamwork

LEADERSHIP OPPORTUNITIES

Leadership opportunities available for this level:

Internship Program Leader, Engineering Guide Leader, Intern Mentor

SPECIAL CONDITIONS OF EMPLOYMENT

Work environment characteristics described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Sitting an average of 5-6 hours per workday
- Stand an average of 2-3 hours per workday
- Walk an average of 1-2 hours per workday
- Bend/Stoop – Rarely (1-2 times/day)
- Squat – Rarely (1-2 times/day)
- Reach Above Shoulder – Rarely (1-2 times/day)
- Up to 50 lbs of weight carried – Rarely (0-1 times/day)
- Up to 50 lbs of weight lifted – Rarely (0-1 times/day)

Job requires being on construction sites. Personal protective equipment as required will be provided (hard hats). Job also requires operating a vehicle to and from meetings and job sites (personal or rental). Valid drivers' license is required. Exposure to job site hazards.