

Senior Mechanical Engineer

DESCRIPTION

Responsible for analysis and engineering design of mechanical systems for KCL Engineering components of building construction projects for KCL Engineering Clients. Provide mechanical design and consulting services by taking an active role in creating design concepts while working with other engineers and other disciplines in AutoCAD and REVIT.

ESSENTIAL DUTIES

- Assist in marketing for potential projects. Proactively pursue projects with new and existing clients. Maintain client satisfaction
- Participate in project interviews
- Conduct field surveys for new or proposed projects
- 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
- Work with engineers and other disciplines in creating drawings and utilizing computer aided design programs
- Supervise and provide support to 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
- Create schematic, design development, and construction documents
- Make site visits to perform job site observations
- 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 phase
- Review shop drawings
- Perform construction administration responsibilities
- Troubleshoot problems and communicate with appropriate parties
- Maintain 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 and lead 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.
- Strengthens and builds relationships with clients in order to drive company growth.

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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

EDUCATION/EXPERIENCE

Bachelor of Science in Engineering preferred, but not required.

PE License preferred, but not required.

Seven years of progressively responsible experience in a related position

LEADERSHIP OPPORTUNITIES

Opportunities for leadership at this Senior Mechanical Engineer level include:

Mentor, Team Lead, Department Lead, Office Lead, Internship Program Leader, Engineering Guide Leader

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.