



MECHANICAL ENGINEER

OVERVIEW

Candidate will be able to work independently and as a consulting engineer on various architectural, civil and landscape projects as assigned by the Department Manager and firm leadership. This position functions under the direction of the Mechanical / Electrical Department Manager and is required to manage multiple projects.

The Mechanical Engineer for FourFront Design is an experienced engineer who can define a project, develop a set of tasks to accomplish the project, coordinate and monitor the work involved in the tasks and deliver a final product on time and within prescribed budget. He/she must have a general understanding of all mechanical systems including plumbing, fire protection, heating, ventilating, air conditioning and temperature controls.

RESPONSIBILITIES

1. Assess the requirements of the project and owner's needs, and be able to manage the design and production aspects of the project.
2. Function as the mechanical project manager and/or mechanical project engineer; responsible for design, planning, organizing and directing the activities of Mechanical Engineering for FourFront projects.
3. Develop and maintain production and CAD standards that coordinate with current company standards. Responsible for management of mechanical design Quality Control procedures.
4. Promote and provide expertise in sustainable design practices as required by the project. Familiarization with LEED principles is required, and at some point will be a requirement for the individual to become LEED accredited.
5. Review design and construction budgets and schedules, manage work accordingly.
6. Participate in company and project meetings.
7. Determine mechanical design and project scope, budget and staffing requirements.
8. Knowledge of applicable codes and ordinances. Work with code officials and other design professionals when an interpretation or exception to building codes is required.
9. Proficient in use of computer and CAD programs. Assign and review work where required, and provide coordination with multiple disciplines.
10. Provide construction administrative reviews, application for payment reviews, prompt reports and required coordination.
11. Assist in the education and development of mechanical design staff and act as a resource for mechanical design questions.
12. Maintain neat and organized work area which allows efficient access to project information required by other team members.
13. Interpret the intent of mechanical contract drawings and specifications for the Client, General Contractor, Building Inspector and other interested parties.
14. Prepare and distribute schedules, shop drawings and samples.
15. Responsible for the accuracy and quality of all technical work.
16. Participates in the preparation of proposals.
17. Reviews invoices before distribution to the client.
18. Coordinate work of outside consultants in the area of mechanical engineering.

Management Responsibilities

Resolve day-to-day problems of mostly technical nature. When acting as a project leader, responsibility includes meeting schedule, budget and quality requirements. At times, individual will be responsible for review of construction documents prior to final review.



Candidate will have oversight and management of this discipline of work as well as responsibility for coordination with other disciplines associated with each specific project. The position responsibilities will include, but may not be limited to; preliminary designs, sustainable design criteria, LEED compliance, project budgeting and construction cost estimating, presentations, plan and specification generation, bidding and construction administration responsibilities.

Professional Development

1. Participate in public and professional societies.
2. Participate in efforts that support the company mission and vision through positive work relationships internally.
3. Keep current with state of the art design and computer related technology, including BIM.
4. Assist in creation of everyday workload through active external marketing/client relationship building and maintenance.

QUALIFICATIONS

1. Minimum of 3 years' previous mechanical design experience and registration as an Engineer in Training / Engineering Intern (EIT / EI).
2. Bachelor's degree in an Engineering related field from an accredited college or university.
3. Professional Engineering license in the state of South Dakota or ability to obtain one is required within 1 year.
4. Proficiency in AutoCAD required.
5. Proficiency in Revit MEP preferred.
6. Familiarity with mechanical analysis and design programs.