

HVAC Design Engineer/Project Lead

Education

- Degree in Mechanical Engineering

Experience

- Minimum of 5 – 10 years' experience required in the HVAC design field. Consulting engineering experience is required as well as PE License or working towards Licensure

Salary

- Negotiable and commensurate with applicable experience

Responsibilities

Applicant must have the ability to be the lead mechanical engineer on projects by directing others within the department and coordinating and communicating with other disciplines. Successful applicant must be able to demonstrate the following job skills and responsibilities:

- Leadership and organizational skills
- Detailed load estimating utilizing computer software simulation. Includes knowledge of building construction materials, knowledge of meeting outdoor air requirements for indoor air quality, and general understanding of internal heat loads (ie lights, computers, equipment, etc.)
- Application and selection of various types of HVAC equipment including air handling units, fans, coils, condensing units, and furnaces.
- Design and layout of commercial and industrial duct systems including supply, return, exhaust, ventilation, and dust collection systems.
- Application and selection of air terminal devices such as variable air volume boxes, grilles and diffusers, and louvers.
- Design, application, and selection of hydronic systems and steam/condensate systems including chillers, boilers, cooling towers, pumps, and associated system accessories.
- General knowledge of HVAC system controls desirable. Includes development of general HVAC temperature control diagrams and written sequences of operation.
- General knowledge of plumbing design would be beneficial but not required. Would include general knowledge of the plumbing code and specific requirements for sanitary sewer and vent piping design, storm sewer piping design, and domestic hot and cold water piping design.
- Development of construction document packages based on the project requirements and application. This shall include project coordination with other disciplines (structural, architectural, electrical), directing drafting personnel, and checking project construction documents.
- Writing job specific equipment and materials specifications.
- Attending and conducting client meetings in order to clearly understand job/owner requirements and expectations. Includes, project review meetings, construction meetings, and project closeout meetings.
- Project shop drawing and submittal review.
- On-site inspections of HVAC system installations.