

Mechanical Engineer

Job Titles

- Mechanical Engineer I
- Mechanical Engineer II
- Mechanical Engineer III

Reports to

- Vice President of Mechanical Engineering.

Position Overview

- Under the direction of the Project Manager, the Mechanical engineer applies Mechanical theory to design and specify HVAC systems and system processes, completes energy code compliance documentation and energy analysis as required, participates in coordination meetings with design team members and clients, corresponds with vendors and contractors, performs site surveys, observes construction projects, edits specifications, and reviews submittals.

Duties and Responsibilities

- Knowledgeable of HVAC systems and RE Dimond Specifications
- Coordinate clearances and fit for all MEPT systems.
- Calculate HVAC load estimates for various spaces, building, and processes.
- Conduct site surveys and prepare reports and studies.
- Prepare construction cost estimates.
- Design air distribution systems.
 - Ductwork design, layout, and sizing.
 - Grille, registers, and diffuser selections.
 - Central air handling unit, and terminal unit selections.
- Design hydronic, steam and refrigeration systems.
 - Piping design, layout, and sizing.
 - Central plant and equipment selections.
- Design and specify building automation control systems.
- Complete continuing education requirements to maintain licensure.
- Proficient using Codes and Standards (International Building Code, International Mechanical Code, ASHRAE, NFPA)
- Proficient or actively learning REVIT.

Qualifications

- Mechanical Engineer I:
 - Graduate of an ABET accredited engineering program or
 - Engineer Intern license.
- Mechanical Engineer II: Professional Engineer license.
- Mechanical Engineer III:
 - Professional Engineer license
 - 10 years verifiable work experience.

Working Conditions

- Generally, work is in a typical office environment.
- Travel to client meetings is required.
- Travel to project sites and the ability to document existing conditions is required.
- Travel to construction sites and the ability to observe and document construction progress is required.
- Compliance with client and job site superintendent safety protocol is required.
 - Hard hats, safety toe shoes, hi-visibility vest, ear and eye protection are sometimes required to be used.
- Some evening and weekend work is required.
- Occasional overnight travel is required.

Direct Reports

- Mechanical Designers
- Production