

Engineer I

General Characteristics

An Engineer I plans and conducts work requiring judgment in the evaluation, selection, and adaptation of standard procedures and criteria used in the design of building structures. An Engineer I is able to devise new approaches to problems encountered.

Direction Received

An Engineer I independently perform most assignments with instructions as to the general results expected. They receive technical guidance on unusual or complex problems and supervisory approval from Project Managers, Senior Project Managers, Senior Structural Engineers, and/or Associates on proposed plans for projects.

Typical Duties & Responsibilities

An Engineer I plans, schedules, conducts, or coordinates detailed phases of the engineering work in a part of a major project or in a total project of moderate scope. They perform work that involves conventional engineering practice but may include a variety of complex features such as conflicting design requirements, unsuitability of conventional materials, and difficult coordination requirements. Work requires a broad knowledge of precedents and the principles and practices of structural engineering.

Partial List of Responsibilities

- Structural calculations
- Plan layout and detail development
- Detailed knowledge of analysis and plan production software (AutoCad/Revit)
- Full structural design drawing assembly and specification compilation for projects of several types and scales
- Perform full range of construction administration tasks: RFI's, submittal review, site observation visits
- Be aware of and comply with project schedules
- Maintain orderly paper and electronic files
- Routine client communication on non-controversial items
- Assist associates with administrative and development assignments as requested/directed
- Monitor project progress using input from Project Manager

Responsibilities for Direction of Others

An Engineer I may supervise or coordinate the work of fellow Structural Engineers, Technicians and Designers.

Education

Bachelor's Degree in engineering from an ABET accredited curriculum or equivalent, plus appropriate continuing education.

Registration

Registered Professional Engineer (PE).

Typical Professional Attainments

Member of professional society (Member grade).

