

Structural Designer

General Characteristics

This is the entry level for engineering design work at Pierce Engineers, Inc. The Structural Designer (SD) performs assignments designed to develop professional work knowledge and abilities, requiring application of standard techniques, procedures, and criteria in carrying out a sequence of related engineering tasks. Limited exercise of judgment is required on details of work and in making preliminary selections and adaptations of engineering alternatives.

Direction Received

The SD will be working under the direct supervision of a Senior Structural Designer, Structural Engineer, Senior Structural Engineer, Project Manager, Senior Project Manager, and/or Associate who screens assignments for unusual or difficult problems and selects or guides the Structural Designer in developing techniques and procedures to be applied on non-routine work.

Typical Duties & Responsibilities

Using prescribed methods, an SD performs specific and limited portions of a broader assignment of an experienced engineer. An SD applies standard practices and techniques in specific situations, adjusts and correlates data, recognizes discrepancies in results, and follows operations through a series of related detailed steps or processes.

Partial List of Responsibilities

- Structural calculations as directed
- Plan layout and detail development as directed
- Develop working knowledge of analysis and plan production software (AutoCad/Revit)
- Approval drawing review
- Very limited client communication as directed
- Gradual evolution to the design and drawing assembly for complete buildings of moderate scale

Responsibilities for Direction of Others

May be assisted by fellow Structural Designers and Technicians

Education

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

Registration

Registration as an Engineer-in-Training (EIT) is preferred, though not required.

Typical Professional Attainments

Member of professional and technical societies (Associate grade or equivalent).

