

SENIOR ENGINEER (DESIGN COORDINATION)

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, incumbents function as fully competent, licensed Professional Engineers in all conventional aspects of the area of assignment. An incumbent independently performs assignments with instructions as to the general results expected. The Senior Engineer plans and conducts work requiring judgment in the evaluation, selection, adaptation and modification of standard techniques, procedures and criteria. The incumbent serves as project leader in design work or as a resident engineer giving direction to and reviewing the daily work of a number of sub-professional engineering and/or technical employees and others. This level differs from the Associate Engineer in that the Associate is responsible for the administrative supervision of a unit. It differs from the Assistant Engineer level in the greater responsibility, complexity of assignments, supervision of technical staff, and in the requirement of a license to practice as a Professional Engineer. (Factors determining complexity include dollar value of contract, location, phasing, project coordination requirements, time constraints, variety of design criteria, and project sensitivity.) Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Confers with the others as to progress of construction and estimating and recommends changes and modifications as they may apply or affect the Capital Budget;

Maintains an accounting and scheduling process of capital budget items;

Supervises Construction Managers under contract to the County and coordinates with Supervisor of Construction on Construction Management contracts;

Supervises and recommends approval of contractors, sub-contractors and vendors;

Investigates complaints and arranges for corrective measures, including the preparation of related correspondence;

Prepares specifications and estimates for contracts and contract payments;

Prepares monthly and annual reports of activities;

Represents the County Department of Public Works at various meetings;

Examines contractors' shop drawing for proper interpretation of plans;

May seal and sign plans, working drawings and specifications as a licensed Professional Engineer as defined in Article 145 of the New York State Education Law;

Inspects construction concerning architectural and engineering phases.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of the principles and practices of civil engineering as they are applied to the functional area of construction; thorough knowledge of building and structure construction practices; thorough knowledge of the practices of specification writing; good knowledge of the engineering problems involved in the design, construction and analysis of buildings and structures; good knowledge of construction estimates, including relative cost of materials related to useful life; good knowledge of the legal principles of contract preparation; good knowledge of computer assisted design, CAD; ability to perform complex engineering computations; ability to plan, lay-out and direct the work of others; ability to delegate work to subordinate personnel; ability to work effectively and cooperatively with related agencies, firms, contractors and other departmental and County personnel; sound professional judgment; accuracy; resourcefulness; reliability; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: Either: (a) a Bachelor's Degree* in Engineering or Architecture and six years of field and office experience in architecture or engineering, one of which must have been in the design of engineering or architecture projects and one of which must have been in construction administration; or (b) a Master's Degree* in Engineering or Architecture and five years experience as defined in (a), including the specialized experience; or (c) a satisfactory equivalent combination of the foregoing training and experience as defined by the limits of (a) and (b).

SPECIAL REQUIREMENT: Possession of a license to practice as a Professional Engineer or Registered Architect in New York State.

*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.