

SENIOR ENGINEER

Job Code	Pay Grade
16840	SM5a

Nature of Work

This is managerial level professional engineering work in a wide variety of engineering projects. An incumbent in this classification is team leader responsible for planning, coordinating, and reviewing the work of subordinate professional and technical employees engaged in planning, construction, operations, maintenance, and public works projects and programs within a unit. Emphasis of the work is planning and coordinating a large number of projects and programs from inception to completion; contract administration; and extensive coordination with consultants, contractors and other governmental entities. Work is highly complex and involves a wide range of public contact in coordinating delegated county engineering activities with both public and private organizations.

Minimum Qualification Requirements

- Bachelor's degree in civil engineering or other relevant engineering discipline and Professional engineering certification from the State of Florida and 8 years of experience in the design and construction of public works projects, to include 3 years supervising professional engineering functions; or
- An equivalent combination of education, training, and/or experience.

Appointing Authority May Also Require

- Florida Driver's License or Florida Commercial Driver's License and endorsement, if any.
- Assignment to work a variety of work schedules including compulsory work periods in special, emergency, and/or disaster situations.
- Other highly desirable knowledge, skills, abilities, and credentials relevant to a position.

Illustrative Tasks (These are examples and are not all inclusive.)

- Supervises, coordinates and provides technical guidance to a medium size engineering function such as an ancillary of a major engineering division.
- Supervises the construction, and resident inspection of roadway, drainage or utilities projects, highway, bridge and marine structures, and traffic engineering planning and operations.
- Supervises and directs the planning, coordination, review and updating and improving the SCADA and GIS computer systems.
- Supervises, plans, and directs the operation and maintenance of public works facilities and systems, including highways, streets, drainage, bridge and marine structures.
- Supervises professional and technical staff in the preparation and review of plans, cost estimates and specifications, traffic signal timing, sequences, geometric alignments and computations, and in the review of zoning petitions, site plans and various permits applications.
- Conducts, coordinates, or supervises special engineering studies involving road alignment, roads and drainage, and design projects.
- Conducts and Coordinates contract administration services for all consulting engineering contracts which entails preparing progress reports, attending meetings, tracking of consultant's progress, review of plans and specifications, review of pay requests, and coordination and review of construction activities.
- Coordinates with the Florida Department of Transportation on funding for bridge repair and maintenance.
- Prepares, reviews, or arranges for regulatory permit acquisition.
- Performs related work as assigned or required.

Knowledge, Skills, and Abilities

- Knowledge of the principles and practices of engineering, related to one or more of the following engineering disciplines: Civil, Roadway, Drainage, Environmental, Structural, Traffic and/or Mechanical.
- Knowledge of modern developments, current literature and trends in the field of engineering specialization.

SENIOR ENGINEER (continued)

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Knowledge, Skills, and Abilities (continued)

- Knowledge of traffic engineering software.
- Knowledge of GIS computer systems.
- Knowledge of design, permitting, and construction of public works and utility projects.
- Knowledge of federal, state, and local regulations in relation to public works and utilities projects regarding environmental, hazardous material and construction safety issues.
- Skill in the use of engineering instruments and equipment.
- Ability to apply computer applications and software.
- Ability to plan and direct the work of professional engineers, contractors, technicians and clerical personnel in a manner conducive to full performance and high morale.
- Ability to give technical and professional review to a wide variety and large volume of engineering plans, specifications and related documents.
- Ability to address civic, public or private organizations relative to engineering programs and projects.
- Ability to enforce departmental policies.
- Ability to present clear and concise reports, orally and in writing.

For official use only

Revised	EEOC Code	Overtime Code
9/16	Professionals	Exempt