

ENGINEERING SPECIALIST 2

Job Code	Pay Grade
16794	CL20

Nature of Work

This is very responsible technical engineering work which may involve day to day supervisory responsibility for the preparation or review of plans, designs or specifications within departmental projects. Employees in this class assume responsibility for complex and diversified projects involving design, construction, review, operation and maintenance of a variety of public works roads and drainage programs or facilities. Employees are expected to exercise considerable independent judgment in resolving problems. Employees occupying this classification who receive their Professional Engineering certifications are eligible for additional earnings. If the additional earnings are accepted, the employee will be expected to perform as an Engineer of Record, signing and sealing documents, etc., if the assigned work requires such professional endorsement. The position reports to a senior manager, supervisor, or designee.

Minimum Qualification Requirements

- 8 years highly responsible experience in engineering, transportation, computers, or electronics; or
- Bachelor's degree in civil engineering, electrical engineering, computer sciences or related field with a basic understanding of the use of CAD systems; and 4 years experience in the design, review or construction of public works or utilities projects; 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.
- Specialized certifications related to engineering studies or traffic signal operations and maintenance. Candidate to possess prior job tenure and experience from within the same unit or assignments in the same line of work.
- Candidate to demonstrate more advanced proficiency, competency, and satisfactory completion of regularly assigned work in an independent manner. Appointing Authority retains discretion to employ an incumbent at this level or advance the incumbent non-competitively or competitively, after a candidate meets the minimum qualifications to an in-line career ladder position (such as, to a nonsupervisory technical or nonsupervisory specialist position in the same unit assigned in the same line-of-work) within the same organization or department.
- Other highly desirable knowledge, skills, abilities, and credentials relevant to a position.

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

- Leads a design team for specific projects and prepares drawings, specifications and cost estimates.
- Reviews final pay estimates on completed contract work prior to payment.
- Makes technical engineering investigations, prepares reports on findings and assigns specific duties to subordinates on assigned projects.
- Assists in planning and directing an operational section or supervising construction or inspection of highway, structural, drainage, water supply and sanitary sewerage projects.
- Confers with contractors working on public works construction projects to explain and interpret plans and specifications, checks materials, makes arrangements for tests by laboratories and makes progress reports.
- Oversee the ITS Control Center ensuring quality control, as well as effective and timely communication / coordination among the operating staff.
- Employees in this class assume responsibility for complex and diversified projects involving the design, construction, analysis, review, inspection, maintenance, operation and project management of ITS, traffic control systems, traffic signals and field inspection.
- Supervises and inspects construction in public right-of-way, reviews plans for proposed construction, confers with builders to ensure county standards are met.

ENGINEERING SPECIALIST 2 (continued)

Job Code	Pay Grade
16794	CL20

Illustrative Tasks (continued)

- Plans, assigns, directs and reviews work of inspectors assigned to public works construction projects.
- Assists in planning and supervising operations or maintenance of major public works facilities including highways, bridges, water supply, sanitary sewerage and drainage facilities.
- May perform information processing related duties including using available statistical packages or programs, encoding data, data entry and retrieval and routine information terminal operations and programming/reprogramming.
- Performs related work as assigned or required.

Knowledge, Skills, and Abilities

- Knowledge of the principles and practices of civil engineering and advanced mathematical applications to surveying and engineering computation.
- Knowledge of the principles and practices related to traffic control systems and signal timing.
- Knowledge of the principles, techniques and practices of topographic or hydrographic surveying, land surveying and traffic engineering.
- Knowledge of modern development, current literature and sources of information on public works design, construction, operations and maintenance.
- Skill in the use of engineering instruments and equipment and ability to utilize computer applications to engineering design, drafting and mapping.
- Ability to work with minimum supervision under broad guidelines and obtain, analyze, summarize and maintain transportation systems technical engineering data and records.
- Ability to identify and analyze ITS/ATMS operational and technical issues and resolve independently.
- Ability to develop and supervise major highway, structural, water supply and sanitary sewerage projects and the work of assigned subordinates.

For official use only

Revised	EEOC Code	Overtime Code
7/16	Technicians	Classified/Excluded