

ENGINEER 1

Job Code	Pay Grade
16799	P3

Nature of Work

This is responsible entry level professional engineering work in the preparation and review of plans, designs, and specifications and/or in the coordination of water resources, transportation systems, environmental assessments and permitting efforts for engineering-type projects. Employees in this class apply various engineering skills and knowledge to public works and utilities projects involving research, modeling, design, specifications, coordination, construction, operation, and maintenance. Positions require the exercise of independence in the performance of technical projects and may involve indirect supervision of personnel in the office or field. This is an entry level engineer-in-training position and is a precursor to a professional engineering position. Works under the supervision and direction of a registered professional engineer.

Minimum Qualification Requirements

- Bachelor's degree in civil engineering or other relevant engineering discipline and;
- Successful completion of the Engineering Intern Exam and possession of an Engineer Intern Certificate in the State of Florida.

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.)

- Researches technical information to provide project data and engineering solutions for infrastructure issues related to one or more of the following engineering disciplines: Civil, Roadway, Drainage, Environmental, Structural, Traffic and/or Mechanical.
- Performs and reviews engineering calculations associated with capital projects.
- Utilizes engineering models to identify scenarios for project design and/or operations.
- Maintains project files to preserve document records.
- Assists Professional Engineers with designs and preparation of plans, specifications and cost estimates.
- Assists with the preparation of scope of services and schedules.
- Provides input during the planning, design, and construction phases for transportation, stormwater, utilities, and other assigned projects.
- Performs technical reviews and organizes the review comments from other staff to resolve conflicts during design and construction phases of a project.
- Supervises, plans, and direct the activities of an engineering effort as the project manager.
- Performs related work as assigned or required.

Knowledge, Skills, and Abilities

- Knowledge of engineering principles and practices and the ability to apply those principles, related to one or more of the following engineering disciplines: Civil, Roadway, Drainage, Environmental, Structural, Traffic and/or Mechanical.
- Knowledge of industry practices.
- Knowledge of Civil 3-D / AutoCAD systems.
- Knowledge of modern developments, current literature and sources of information in engineering.
- Skill in the use of engineering instruments and equipment.
- Ability to search online sources of information for engineering solutions.

ENGINEER 1 (continued)

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Knowledge, Skills, and Abilities (continued)

- Ability to utilize computer applications for engineering design, drafting, mapping, plan preparation, modeling, and scheduling.
- Ability to plan and execute work assignments.
- Ability to provide technical input associated with engineering problem solving.
- Ability to maintain project files and document work efforts to verify and validate decisions.
- Ability to work within established schedules to meet project goals.

For official use only

Revised	EEOC Code	Overtime Code
9/16	Professionals	Exempt