

CLEAN WATER ENGINEER

MAJOR FUNCTION

This is a professional position related to stormwater engineering required by Marion County involving design and implementation of all facilities relating to stormwater, drainage, and flood control, development and maintenance of County's Clean Water Program and other stormwater management programs, and inter-local coordination of storm water related issues and programs.

ESSENTIAL FUNCTIONS

The following statements describe the principal functions of this job and its scope of responsibility, but should not be considered an all-inclusive listing of work requirements. Individuals may perform other duties as assigned, including working in other functional areas to cover absences or relief, to equalize peak work periods or otherwise to balance the work load.

- Develops and maintains the County's Clean Water Program and Stormwater Management Program.
- Develops and implements the County's National Pollutant Discharge Elimination System (NPDES) permit and program.
- Develops and implements the County's Total Maximum Daily Load (TMDL) permit and program.
- Develops design standards. Responsible for development and implementation of effective stormwater related codes to protect the health, safety, and welfare of the citizens of Marion County.
- Designs drainage systems for County projects in response to NPDES and TMDL programs.
- Responsible for the design and implementation of large scale projects and operations for the correction of major stormwater problems which involve pollution controls.
- Supervises the construction of stormwater projects and assists in overall planning of County stormwater systems. Assists in estimating costs of improvements to stormwater systems.
- Responsible for identifying and applying for sources of stormwater-related funding from State and Federal agencies. Responsible for administration and coordination of intergovernmental stormwater-related projects.
- Establishes procedures for working with developers and engineers on stormwater compliance in response to NPDES and TMDL programs.
- Arranges and applies for permits with regulatory agencies for stormwater and quality control of drainage systems. Administer stormwater-related contracts and inter local agreements.
- Coordinates stormwater-related programs with State and Federal agencies.

SECONDARY FUNCTIONS

- Performs other duties as assigned.

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CUSTOMER SERVICE

This is a front-line position for providing customer service to members of the general public and other County employees. Personal contact occurs with other employees of the unit, employees of other departments in the County, citizens, and customers of the department. Service is provided in person or by phone contact.

SUPERVISION

Responsible for directly and regularly supervising work of a relatively small number of employees (two or more), with no indirect supervision. Includes assigning, directing, evaluating, and reviewing work of subordinate employees. Responsibilities include providing on-the-job training; evaluating job performance; recommending selection of new staff members, promotions, status changes, and discipline; and planning, scheduling, and coordinating work operations.

EDUCATION, EXPERIENCE, LICENSES, AND CERTIFICATIONS

Education and Experience. Bachelor degree from an accredited college or university in civil engineering or related field and four years experience in drainage engineering, or Masters Degree in civil engineering or related field, or equivalent combination of education and experience.

Licenses. Valid Florida Driver License.

Certifications.

Registration as a Professional Engineer in the State of Florida.

JOB SKILLS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements are representative of the required knowledge, skills, and abilities.

Language Skills

- Ability to read, analyze, and interpret the most complex documents.
- Ability to respond effectively to the most sensitive inquiries or complaints.
- Ability to write speeches and articles using original or innovative techniques or style.
- Ability to make effective and persuasive speeches and presentations on controversial or complex topics to top management, public groups, and/or boards.

Mathematical Skills

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- Ability to comprehend and apply principles of advanced calculus, modern algebra, and advanced statistical theory.
- Ability to work with concepts such as limits, rings, quadratic and differential equations, and proofs of theorems.

Problem Solving Abilities

- Ability to apply principles of logical or scientific thinking to a wide range of intellectual and practical problems.
- Ability to deal with nonverbal symbolism (formulas, scientific equations, graphs, musical notes, etc.) in its most difficult phases.
- Ability to deal with a variety of abstract and concrete variables.
- Analyzes major organization-wide policies, budgets, procedures, systems or accounting methods on a continuous basis.

Specialized Skills and Abilities

- Knowledge of permitting requirements of other regulatory agencies.
- Knowledge of urban and rural drainage standards and specifications for design and construction.
- Ability to design and supervise construction of drainage systems and related facilities.
- Knowledge of overall planning for county-wide drainage systems.
- Strong organizational skills. Ability to prioritize and meet multiple deadlines.
- Ability to remain calm in stressful situations.
- Ability to take a teamwork approach to the job by cooperating with others, offering to help others when needed, and considering larger organization or team goals rather than individual concerns. Includes the ability to build a constructive team spirit where team members are committed to the goals and objectives of the team.

Machines and Equipment.

This employee will be required to operate a computer, blueprint machine, calculator, telephone, fax machine, copy machine, and other general office equipment in the completion of the tasks of the position.

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PHYSICAL DEMANDS

While performing the duties of this job, the employee will occasionally be required to walk, climb, balance, stoop, kneel, crouch or crawl, and lift up to fifty pounds; will regularly be required to stand, sit, and lift up to twenty-five pounds; and will frequently be required to use hands to finger, handle, or feel, reach with hands and arms, sit, talk or hear, and taste or smell. Vision requirements are close, distance, color, and peripheral vision, depth perception, and the ability to adjust focus.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. While performing the duties of this job, the employee will occasionally be exposed to wet or humid conditions, work near moving mechanical parts, work in high, precarious places, and vibration. The employee will regularly be exposed to outdoor weather conditions. The noise level for this job is moderate.

Established: 10/2002

Pay Grade: 27

Job Description Number: 2014

Category: 2

Status: E

Revised: 6/2003