



Effingham County Board of Commissioners

Posting ID: **2017-0008**
Post Date: **06/13/2017**
End Date: **Until Filled**

Job Announcement

Civil Engineer Full Time

Salary Negotiable Based on Qualifications

The Effingham County Board of Commissioners is now accepting applications for a full-time County Civil Engineer. The duties of this position will include developing plans for surface transportation projects according to established engineering standards and state/federal construction policy based on the direction from the Effingham County Board of Commissioners; complete and oversee a variety of professional engineering assignments in one or more specialized areas of transportation systems and programs involving research, planning, design, technology, materials, construction, traffic safety, traffic operations, and maintenance of highways, bridges and related structures and technological devices and applications.

Minimum Qualifications:

Application of general knowledge of physical sciences, mathematics, underlying engineering, and specialist knowledge of physical mechanics of solids, hydraulics, theory of structure, strength of materials, engineering geology and surveying is required. A copy of the job description is located on our website, www.effinghamcounty.org.

Effingham County Board of Commissioners is an equal opportunity/drug free workplace employer. Pre-employment requirements are background check on criminal history, driver's license history and drug screen. Resumes must be accompanied by a County Employment Application. Applications may be found on our website, www.effinghamcounty.org, or you may pick one up at the Administrative Complex, 601 North Laurel Street, Springfield, Ga. 31329

Applications may be submitted via email at HR@effinghamcounty.org,
by Fax 912-754-8402 or by drop off at
601 North Laurel Street, Springfield, Ga.

EFFINGHAM COUNTY, GEORGIA CLASSIFICATION SPECIFICATION

CLASSIFICATION TITLE:

COUNTY ENGINEER

PURPOSE OF CLASSIFICATION

The purpose of this classification is to develop plans for surface transportation projects according to established engineering standards and state/federal construction policy based on the direction from the Effingham County Board of Commissioners. Employees in this classification complete and oversee a variety of professional engineering assignments in one or more specialized areas of transportation systems and programs involving research, planning, design, technology, materials, construction, traffic safety, traffic operations, and maintenance of highways, bridges, airports, railways, and related structures and technological devices and applications

ESSENTIAL FUNCTIONS

The following duties are normal for this position. The omission of specific statements of the duties does not exclude them from the classification if the work is similar, related, or a logical assignment for this classification. Other duties may be required and assigned.

Prepare plans, estimates, and specifications to design transportation facilities showing adept knowledge of traffic operations theory and practice

Show competent knowledge of highway laws, codes, standards and specifications pertaining to highway engineering and costs including materials, methods and techniques used in the design, construction and maintenance of highways, bridges and related structures

Plan alterations and modifications of existing streets, highways, and freeways to improve traffic flow

Prepare deeds, property descriptions, and right-of-way maps

Perform field engineering calculations to compensate for change orders and contract estimates

Develops and presents data/ reports of environmental analysis statements and other transportation information for public review, hearings, informational meetings and the Board of Commissioners

Prepares and checks detail plans, design calculations, cost estimations and recommendations for completeness, mathematical accuracy and conformity to engineering practices and standards

Compiles and analyzes engineering data and prepares conclusions and recommendations

Designs and prepares preliminary and final plans for highways, bridges, drainage structures, municipal utilities, roadway lighting, traffic control devices, intelligent transportation systems (ITS), and miscellaneous highway facilities

Provides input for the development and maintenance of traffic management policies and procedures.

Uses intelligent transportation and traffic management systems technology and applications to monitor traffic flow and conditions

May perform or oversee the survey, staking, layout and inspection of construction projects.

Participates in studies to determine sufficiency of existing highway systems and structures and programming of future construction

Estimates cost of projects and writes contracts and specifications for labor, materials and equipment for review and approval by the Board of Commissioners.

Develops preliminary engineering treatments to determine construction feasibility and estimated costs

Investigates traffic problems and recommends methods to improve traffic flow and safety

Interprets contracts, specifications and plans to contractors, subordinates and the public

Recommends construction methods best suited to soil types encountered

Prepares final layout drawings and stress calculations

Prepares studies and completes designs of highway structures of all classifications

Determines the validity and reliability of testing methods and procedures

Prepares hydrologic/hydraulic studies and reports for use in the design of highway structures

May serve as quality assurance engineer reviewing plans, testing or construction for highway projects

Use computers to carry out, track / troubleshoot work assignments, maintains records and prepare reports/ correspondence related to the work

ADDITIONAL FUNCTIONS

Oversees the work of professional staff by making and reviewing work assignments, establishing priorities, coordinating activities, and resolving related work problems

Contacts developers to obtain results of reviews and approvals

Provides assistance to other employees or departments as needed

Performs other related duties as required

MINIMUM QUALIFICATIONS

Bachelors Degree in Engineering or related field; supplemented by college level course work or vocational training in office, transportation and traffic management systems technology and applications; supplemented by three (3) years previous experience and/or training that includes proficiency in highway laws, codes, standards and specifications; materials, methods and techniques used in the design, construction and maintenance; procedures and practices applied in the inspection and testing of materials used in highway and bridge construction; and application of traffic

operations theory and practice; or any equivalent combination of education, training, and experience which provides the requisite knowledge, skills, and abilities for this job.

PERFORMANCE APTITUDES

Data Utilization: Requires the ability to review, classify, categorize, prioritize, and/or analyze data. Includes exercising discretion in determining data classification, and in referencing such analysis to established standards for the purpose of recognizing actual or probable interactive effects and relationships.

Human Interaction: Requires the ability to apply principles of persuasion and/or influence.

Equipment, Machinery, Tools, and Materials Utilization: Requires the ability to operate, maneuver and/or control the actions of equipment, machinery, tools, and/or materials used in performing essential functions; ability to use engineering instruments and tools including computers and engineering workstations.

Verbal Aptitude: Requires the ability to utilize a wide variety of reference, descriptive, and/or advisory data and information.

Mathematical Aptitude: Requires the ability to perform addition, subtraction, multiplication, and division; the ability to calculate decimals and percentages; the ability to utilize principles of fractions; and the ability to interpret graphs; ability to read and interpret engineering plans, specifications and technical reports.

Functional Reasoning: Requires the ability to apply principles of rational systems; to interpret instructions furnished in written, oral, diagrammatic, or schedule form; and to exercise independent judgment to adopt or modify methods and standards to meet variations in assigned objectives.

Situational Reasoning: Requires the ability to exercise judgment, decisiveness and creativity in situations involving evaluation of information against measurable or verifiable criteria.

ADA COMPLIANCE

Physical Ability: Tasks require the ability to exert very moderate physical effort in light work, typically involving some combination of stooping, kneeling, crouching and crawling, and which may involve some lifting, carrying, pushing and/or pulling of objects and materials of moderate weight (12-20 pounds).

Sensory Requirements: Some tasks require the ability to perceive and discriminate visual cues or signals. Some tasks require the ability to communicate orally.

Environmental Factors: Essential functions are regularly performed without exposure to adverse environmental conditions.

Effingham County, Georgia, is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the County will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer.