



Gloucester County Job Description

POSITION: **Civil Engineer I**
DEPARTMENT: **Engineering**
JOB CODE: **A258**
FLSA: **Exempt**

GENERAL STATEMENT OF JOB: Under direction, performs engineering and project management duties for the County. Employee must exercise initiative and independent judgment in ensuring that necessary work is performed in a timely manner. Employee must also exercise tact and courtesy in frequent contact with engineers, contractors, and the general public. Reports to the Director of Engineering Services.

ESSENTIAL JOB FUNCTIONS:

1. Performs inspections of projects under construction to ensure compliance with project plans and specifications of new construction, alterations, and repairs; ensures construction projects comply with environmental regulations, policies, and procedures.
2. Coordinates and reviews the work of contractors; provides guidance and advice to contractors; resolves non-routine problems at the construction sites and approves changes to original plans and specifications. Provides construction management services on projects involving complex designs and construction problems.
3. Researches standards, products, design methods, and codes; analyzes engineering data; reviews engineering drawings and contract specifications.
4. Surveys proposed construction sites; prepares plans and layouts for construction projects; designs scope, specifications, bid packages, requests for proposals, cost estimates, schedules, and contract documents of County-sponsored capital projects.
5. Directs and participates in technical and complex engineering areas such as construction document development based on EJDC and AIA standards, erosion and sediment control, storm water management, solid waste management, and facility and utility construction.
6. Ensures solid waste management services are provided in accordance with contract.
7. Receives and responds to inquiries from the general public with problems pertaining to public works programs and projects or refers inquiries to appropriate officials. Provides technical and project related information to the general public, contractors, County employees, and other interested parties.
8. Prepares correspondence, memorandum, reports, etc. regarding technical and contractual matters.
9. Prepares and monitors budgets for construction projects.
10. Serves as liaison with State and regional officials.
11. Makes presentations to Board of Supervisors and County Administrator on public works engineering projects.
12. Attends meetings, conferences, seminars and training courses as required.
13. Performs other duties as assigned.

EMPLOYEE UTILIZATION IN ADVERSE WEATHER AND EMERGENCY CONDITIONS

All Gloucester County employees are subject to being assigned to specific positions and tasks during a "Declared Emergency" as support personnel, by the County Administrator, the Emergency Management Director, or the Emergency Operations Plan (EOP). Once assigned, this would be the same as a regular work assignment and all

policies and procedures for duty assignments apply. (Please see Gloucester County Administrative Policy 101.1 - Employee Utilization in Adverse Weather and Emergency Conditions.)

JOB LOCATION AND CONDITIONS:

Duties are performed at assigned County location both indoors and outdoors and subject to all weather conditions.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:

Broad knowledge of the principles, practices and methods of civil engineering as applied in the areas of public works and utilities.

Broad knowledge of federal, State and local laws pertaining to public works and utilities construction.

Broad knowledge of civil engineering principles as applied construction and construction management.

Broad knowledge of material and labor costs and is able to estimate capital project costs.

Broad knowledge of the principles of supervision, organization and administration.

Broad knowledge of the current literature, trends and developments in the fields of public works and utilities.

Broad knowledge of personal computers and commonly used Microsoft Office software products to include Outlook, Word, Excel, Access and Power Point, computer aided-design programs and the internet.

General knowledge of the standard accepted practices of bookkeeping and accounting as applied to governmental transactions and budget preparation.

Ability to plan, coordinate and supervise the work of subordinates.

Ability to perform research and compile data from various sources and prepare reports from such data.

Ability to prepare and maintain detailed records.

Ability to read and interpret engineering plans, specifications, and front end contract documents.

Ability to exercise independent judgment and initiative in applying standards to a variety of work situations.

Ability to effectively express ideas orally and in writing.

Ability to exercise considerable tact and courtesy in contact with the public.

Ability to establish and maintain effective working relationships as necessitated by work assignments.

Ability to prepare correspondence, reports, forms, budgets, studies, purchase orders, etc., using prescribed formats and conforming to all rules of punctuation, grammar, diction, and style.

Ability to speak before groups of people with poise, voice control, and confidence.

Ability to deal with people beyond giving and receiving instructions. Must be adaptable to performing under varied levels of stress.

EDUCATION AND EXPERIENCE:

Bachelor's degree in civil engineering, or related field.

One (1) to three (3) years of experience preferred in civil engineering, or a related field, including one (1) to two (2) years of project management experience.

Civil engineering degree accredited by the Engineering Accreditation Commission of ABET preferred.

Possession of Engineering Training Certificate required.

NECESSARY SPECIAL QUALIFICATIONS:

Professional Engineer (PE) license preferred.

Possession of a valid driver's license; possess and maintain a driving record that meets established Gloucester County Driving Standards.

Pass a post-offer, pre-employment physical examination and may be subject to subsequent physical examinations to ensure he/she meets job-related physical requirements.

PHYSICAL REQUIREMENTS:

C = Continuous – over 6 hours a day F = Frequent – between 3 and 6 hours a day	O = Occasional – less than 3 hours a day I = Intermittent–several times a week/month	P = Periodic – several times a year N/A = Not applicable to position
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LIFT/CARRY	C	F	O	I	P	N/A
1 to 10 lbs.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 to 20 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21 to 50 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
51 to 75 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
76 to 100 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

PUSH/PULL	C	F	O	I	P	N/A
1 to 10 lbs.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 to 20 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21 to 50 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
51 to 75 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
76 to 100 lbs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

MOVEMENT	C	F	O	I	P	N/A
Carrying	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bend/Stoop/Twist	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kneel/Crawl	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Reach Above Shoulders	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reach Below Shoulders	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grasp/Squeeze	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Climb Stairs/Ladder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Uneven Walking Surface	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Even Walking Surface	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ENDURANCE	C	F	O	I	P	N/A
Stationary Position (stand or sit)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Move, Traverse (walk)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operate, Activate, Use, Prepare, Inspect, Place, Detect, Position (use of hands/fingers)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

EQUIPMENT USAGE & OPERATION	C	F	O	I	P	N/A
Standard Office Equip.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motor Vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vehicle requiring CDL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (explain)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

WORK WITH/NEAR	C	F	O	I	P	N/A
Machinery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Electricity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Power Tools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fumes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Heights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ENVIRONMENT	C	F	O	I	P	N/A
Indoors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outdoors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Extreme Cold	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dusty	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Excessive Noise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (explain)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

VISION REQUIREMENTS (Check all that apply)	
Depth Perception	<input type="checkbox"/>
Color Vision	<input type="checkbox"/>
Peripheral Vision	<input type="checkbox"/>
Uncorrected/Corrected vision 20/40 or better in one or both eyes; 100 degrees, or better, horizontal vision in one or both eyes	<input checked="" type="checkbox"/>