



# POSITION AVAILABLE

## DIVISION OF ENGINEERING

### STRUCTURAL ENGINEER

**Minimum Salary \$59,634**

Performs responsible professional work overseeing the County's bridge program, including design, construction and maintenance activities. Provides non-bridge related structural and drainage analysis and solutions as assigned. Direction is provided by the Chief of Design. Thorough knowledge of modern principles and practices of structural engineering; general knowledge of design, construction, maintenance and cost estimating relating to public works facilities with special emphasis on bridge construction and design. General knowledge of land and engineering survey systems, methods and techniques; ability to prepare technical reports pertaining to engineering projects; ability to establish and maintain effective working relationships with associates and the general public. CADD experience required; structural design and analysis software desirable as well as Microsoft office software experience. Supervises in-house design and oversee designs prepared by outside consultants for all bridges (major structures), culverts (minor structures) and Public Works structures in the County. Oversees bridges inspection programs and performs bridge inspections and associated load rating calculations on an as needed basis. Oversees Federal Aid Bridge Replacement and Rehabilitation Program, including the coordination with the State Highway Administration and the completion and submission of all required forms to assure full compliance with the program. Prepares and submits environmental permits for bridges and culverts. Coordinates with environmental agencies as needed.

Any combination equivalent to Graduation from an accredited college or university with Bachelor of Science Degree in Civil Engineering or related field AND five (5) years' experience in the design, construction and/or inspection of bridges.

Possession of an appropriate valid driver's license Possession of Engineer-in-Training or Professional Engineer certification desirable.

For application, contact the Washington County Human Resources Department, 100 W. Washington Street, Suite 2300, Hagerstown, Maryland 21740, Monday - Friday, 8:00 A.M. - 4:00 P.M., or by calling 240-313-2354, Voice or TDD (D/HH use 711) or visit our website at [www.washco-md.net](http://www.washco-md.net). Deadline for filing applications with the Department of Human Resources is 4:00 P.M., Friday, November 8, 2019.

Washington County is an Equal Opportunity Employer. Individuals requiring special accommodations or assistance are requested to contact the Human Resources Department at 240-313-2354, Voice or TDD (D/HH use 711) M/F/H/V



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<b>JOB TITLE:</b>	Structural Engineer	<b>GRADE:</b>	15
<b>DEPARTMENT:</b>	Engineering	<b>FLSA STATUS:</b>	Exempt
<b>REPORTS TO:</b>	Chief of Design		

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**GENERAL DEFINITION OF WORK:**

Performs responsible professional work overseeing the County’s bridge program, including design, construction in addition, maintenance activities. Provides non-bridge related structural and drainage analysis and solutions as assigned. Direction is provided by the Chief of Design.

**ESSENTIAL FUNCTIONS/TYPICAL TASKS:**

(These are intended only as illustrations of the various types of work performed. The omission of specific duties does not exclude them from the position if the work is similar, related, or a logical assignment to the position.)

1. Performs bridge, culvert and structural design as appropriate using computer CADD drafting and design methods.
2. Supervises in-house design and oversee designs prepared by outside consultants for all bridges (major structures), culverts (minor structures) and Public Works structures in the County.
3. Oversees bridges inspection programs and performs bridge inspections and associated load rating calculations on an as needed basis.
4. Oversees Federal Aid Bridge Replacement and Rehabilitation Program, including the coordination with the State Highway Administration and the completion and submission of all required forms to assure full compliance with the program.
5. Prepares and submits environmental permits for bridges and culverts. Coordinates with environmental agencies as needed.
6. Provides direction and support to County bridge maintenance forces.
7. Addresses design and construction issues that arise during bridge construction.
8. Addresses structural engineering matters not associated with bridges and culverts. Performs various design calculations.
9. Prepares feasibility, life-cycle cost and cost-benefit studies for bridges and culverts.
10. Addresses other structural engineering matters not associated with bridges on an as needed basis.
11. Performs related tasks as required.

**KNOWLEDGE, SKILLS AND ABILITIES:**

Thorough knowledge of modern principles and practices of structural engineering; general knowledge of design, construction, maintenance and cost estimating relating to public works facilities with special emphasis on bridge construction and design; general knowledge of land and engineering survey systems, methods and techniques; ability to prepare technical reports pertaining to engineering projects. Ability to establish and maintain effective working relationships with associates and the general public; CADD experience required; structural design and analysis software desirable as well as Microsoft office software experience.

**EDUCATION AND EXPERIENCE:**

Any combination equivalent to Graduation from an accredited college or university with Bachelor of Science Degree in Civil Engineering or related field AND five (5) years' experience in the design, construction and/or inspection of bridges.

**PHYSICAL REQUIREMENTS:**

This is light work requiring the exertion of up to 20 pounds of force occasionally, up to 10 pounds of force frequently, and a negligible amount of force constantly to move objects; work requires climbing, balancing, stooping, kneeling, crouching, reaching, standing, walking, fingering, and repetitive motions. Vocal communication is required for expressing or exchanging ideas by means of the spoken word; hearing is required to perceive information at normal spoken word levels. Visual acuity is required for depth perception, color perception, preparing and analyzing written or computer data, use of measuring devices, operation of motor vehicles or equipment, determining the accuracy and thoroughness of work, and observing general surroundings and activities; the worker is subject to inside and outside environmental conditions.

**SPECIAL REQUIREMENTS:**

Possession of an appropriate valid driver's license Possession of Engineer-in-Training or Professional Engineer certification desirable.

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential tasks.

Revised: 3/2008; 10/2012; 1/2019