

Stafford County Department of Utilities is comprised of wonderful, environmentally conscious people on a shared mission of water stewardship and exceptional utility service. We are proud to be a leader in the growing and thriving community that we serve in Stafford County. Currently, we have several positions open including, **Civil Engineer**.

To apply to this position, please visit

https://staffordcountyva.gov/government/departments_f-o/jobs_available.php

Job Description

Performs difficult professional work related to water and wastewater modeling and related technical services to support Stafford County's planning, development, and capital improvement initiatives. This position will lead in the analysis of the County's water storage, transmission, and distribution networks, and sewer collection and conveyance networks as needed to support the County's mission. Responsible for assessing alternatives and making recommendations on proposed operational and capital improvements to County infrastructure. This position will work with a variety of teams and Divisions within the County including operations, capital construction, and asset management to enhance organizational understanding of system performance and assist in developing plans to optimize system performance and efficiency. This position will also provide technical support and assistance to external stakeholders in the planning and review of proposed development plans, improvements, and additions to County infrastructure. Work is performed under general supervision within the Department of Utilities. May supervise technical and/or clerical personnel.

*The full salary range for this position is \$73,382.40 - \$124,758.40 to provide opportunity for growth and development.

Examples of Duties

- Performs engineering work and technical analysis of water and wastewater infrastructure;
- Computer modeling of infrastructure networks, including development, calibration, and updating models;
- Reviews existing and proposed system improvements and ensures appropriate capacity, including sizing of gravity and pressure pipes, lift and pump stations, and storage facilities;
- Monitors, review, and analyze system components and data to identify hydraulic anomalies such as flow and capacity constraints and develop recommendations to investigate and mitigate;
- Assist with system analysis and investigations related to I&I and non-revenue water reduction initiatives;
- Reviews plans, specifications, and submittals for various projects, including site and subdivision plans for development projects for local, state, and federal regulatory compliance;
- Evaluates new equipment, processes, methodologies and technologies related to area of responsibility and makes recommendations to management, as appropriate;
- Conducts site visits and field inspections as necessary;
- Interprets various design standards and provides technical information to the public, County staff, and outside engineers and developers;

- Assists management in the development and implementation of quality control processes, programs, and procedures applicable to activities undertaken by the Division;
- Inspects development construction and prepares reports on status of completion and work remaining;
- Participates in and contributes to the County's Asset Management Program related to infrastructure maintenance, renewal/replacement and capital investments;
- Assists management in the preparation of design documents, request for proposals for professional services and contract studies and reports;
- Reviews reports, studies, plans and other technical documents to prepare updated plans and improvement recommendations;
- Assists in the formulation and administration of departmental policies, procedures, standards, plans and programs;
- Prepares of deliverables associated with assigned tasks, reports, graphics, presentations, technical memoranda, and cost analyses;
- Performs related tasks as required.
- Typical Qualifications
- Thorough knowledge of modern principles and practices of civil engineering;
- General knowledge of design, construction, inspection, maintenance, and cost estimating related to public improvements;
- Thorough knowledge of land and engineering survey systems, methods, and techniques;
- Ability to maintain accountability of assigned work based on meeting established schedule, budget, and quality objectives as required;
- Ability to proficiently operate typical computer software applications including asset management, GIS, work order system(s), billing and financial systems, and Microsoft Office (Word, Excel, Access, etc.);
- Ability to prepare technical reports pertaining to engineering projects;
- Ability to establish and maintain effective working relationships with associates, official consultants, and the general public.

Supplemental Information

Any combination of education and experience equivalent to graduation from an accredited college or university with a degree in civil engineering or related field, and 2 years of experience and/or training in engineering design, water resources, hydraulics, computer modeling, or equivalent combination of education and experience. Demonstrated experience in executing water/sewer hydraulic modeling activities typical of a municipal utility is required.

Experience with Innovyze suite of water and sewer modeling software is preferred. Experience in design and construction of water and sewer infrastructure or with a public utility serving a population greater than 50,000 is desired. Experience with geographical information systems, computer aided design (CAD) software packages, project management software and water/sewer network modeling software is also preferred.

Registration as a Professional Engineer (PE) or Engineer in Training (EIT) is preferred.

