

EMPLOYMENT OPPORTUNITY ANNOUNCEMENT

Central Office Division: Traffic Engineering

This position is open to: General Public

Working Title: CO- Traffic Systems Engineer
Role Title: Architect/Engineer II
Position Number: 22609
Work Location: Richmond City
Pay Band: 6
Job Type: Full-time Part-time Temporary Hourly/Wage
Hiring Salary Range: \$53,510 - \$109,818 (*Salary negotiable based on training and experience*)
Closing Date: **Open until filled**
EEO Code: B

RMS Job Posting Number:

Job Description: To champion the highest standards in traffic safety and operational efficiency for the traveling public, the Traffic Engineering Division seeks an individual to assist with developing VDOT's new traffic systems management program, with concentration on traffic control devices communications and related signal systems hardware/software. As a licensed professional engineer, the selected candidate will serve as the state's subject-matter expert on traffic signal communications systems responsible for the development, signing and sealing of applicable engineering work products. Successful candidate will perform at the senior professional level and partners in the leadership and accountability for development of statewide policy and best practices guidelines to plan, design, develop, and measure performance of traffic signal systems, aligning with related VDOT program policies and visions on transportation mobility and operational efficiency, safety, asset management, funding strategies and regional consistency. The successful candidate will work cooperatively with VDOT's Intelligent Transportation Systems (ITS) programs to ensure conformance with communications technology, interoperability of equipment and alignment of systems operational efficiency goals and to establish statewide consistency in the applications of traffic engineering and operations activities relating to design, installation, monitoring, modification, maintenance and administration of statewide traffic signals and communications systems. Responsibilities include the design/evaluation of complex solutions in Signal/ITS/ATMS encompassing ATMS devices, wireless and wireline communications network, and end communications equipment. Duties involve a variety of complex work activities including testing, configuration, and integration of traffic systems devices, wireless and wireline (both fiber optic and twisted pair copper cabling) communications media, end communications equipment, application software. Incumbent will also assist with research, development and implementation coordination of short and long-range transportation systems plans incorporating state-of-the-art best practices and signal/ITS technology to meet the goals and visions of VDOT on arterial system management and traffic systems asset management. Incumbent will lead the development, review and approval of statewide traffic signal control/communications standards, specifications and other technical products relating to the traffic signal/communication system components of the VDOT Road and Bridge specifications and standards books.

In addition to a rewarding work experience, VDOT offers core benefits including competitive health and life insurance programs, pre-tax spending accounts, and leave programs. Employees participate in a State Retirement Plan; a tax-deferred Retirement Savings Plan with employer-matching provisions is also available. Employees are eligible for participation in a Short and Long Term Disability Program after one year of employment. Miscellaneous benefits include paid holidays, training and tuition assistance programs, wellness programs, etc

The Virginia Department of Transportation (VDOT) is an Equal Opportunity Employer by both policy and practice. Applicants are considered for all positions without regard to race, sex, color, national origin, religion, age, veteran status, political affiliation, genetics, or against otherwise qualified persons with disabilities. It is the intent of VDOT's employment and personnel practices to conform to all applicable federal, state and local laws and regulations regarding non-discrimination. View details and knowledge, skills, and abilities for applicant evaluation at local VEC or <http://www.vdot.jobs>. TDD 1-800-828-1120.

Minimum Qualifications: Significant knowledge of the concept of traffic management operations, Traffic Signal Systems and related communications components. Significant knowledge of engineering principles and practices as they relate to traffic engineering, traffic control equipment and related communications systems; significant knowledge of Federal, State and local laws, codes and ordinances pertaining to traffic control and engineering, including but not limited to, Uniform Traffic Control Devices and Virginia traffic laws, Federal, State and VDOT codes, policies, Standards and Specifications for Construction of Highways, Roads and Bridges, signal designs, FHWA Regulations, NEMA (National Electrical Manufacturers Association), AASHTO, NTCIP (National Transportation Communications for ITS Protocol), ITS (Intelligent Transportation Systems) Standards. Knowledge of automated signal control system operations and characteristics; signal timing and understanding of adaptive signal control; signal timing software such as Synchro; database programming languages and software packages related to automated signal control programs. Knowledge of project management, risk analysis and mitigation plans development of complex technology and operations projects to drive for effective results. Knowledge of state and department procurement policies, procedures and practices on consultant and service contracts relating to traffic programs. Possession of considerable business acumen, diversity and conflict management ability and the ability to build integrity and trust. Significant ability to manage, direct, coach and train professional staff, build effective teams and deal with ambiguity in development of a new program; ability to communicate effectively, both orally and in writing, and be customer-focused. Ability to develop effective working relationships at all organization levels both internal and external to the agency. Ability to manage a diverse workload, diverse staff, and to coach and promote the development of a diverse professional staff.

B.S. degree in Civil, Electrical, Systems Engineering or closely related engineering field or related training; professional level experience to sign and seal traffic systems communications engineering work products. Experience with various aspects of traffic signal systems/ITS hardware/software systems projects including feasibility studies/PE, systems design, systems analysis, deployment, construction management, and continuing operations/maintenance. Experience in managing multiple, complex, high-profile, programs and projects. Requires supervisory/managerial experience of agency or consultant staff.

Preferred Qualifications: Knowledge and use of complex information/asset management systems, databases, GIS applications, CADD and Microsoft Office preferred. Experience in various transportation software (Signal System Central Software, Synchro, HCS, CORSIM, VISSIM, etc.). Experience in the design, deployment and operation of Signals/ITS systems. Experience in concepts for Integrated Corridor Management (ICM), Active Traffic Management, Communications Systems, Traffic Signal Interconnect and Adaptive Traffic Signal Systems. Supervisory/managerial experience of agency or consultant staff.

Special Requirements: PE designation required. This position requires the submission of a Statement of Economic Interests (financial disclosure). This position requires a fingerprint based criminal history background check.

Special Instructions to Applicants:

In addition to a rewarding work experience, VDOT offers core benefits including competitive health and life insurance programs, pre-tax spending accounts, and leave programs. Employees participate in a State Retirement Plan; a tax-deferred Retirement Savings Plan with employer-matching provision also available. Also, the State funds a Short and Long Term Disability Program. Miscellaneous benefits include paid holidays, training and tuition assistance programs, wellness programs, etc. On-line application required. For benefits information or to apply on-line, visit <http://www.VDOT.jobs>. For additional assistance contact the Human Resources Office at: (804) 786-5011 or the VA Relay Center: 1-800-838-1120.

Equal Opportunity Employer

May 6, 2008