

Assistant Traffic & Highway Engineer

Ohio Turnpike - Berea, OH



The Ohio Turnpike & Infrastructure Commission is seeking an experienced Assistant Traffic & Highway Engineer to work in our Engineering Department at the Administration Building in Berea, OH. Please consider bringing your experience, talents, and goals to one of Northern Ohio's vital resources and join the future of transportation.

If you are interested, here's some of what we can offer you:

- Salary range from \$72,979.40 - \$88,592.66 annually
- Excellent pension and health care benefits
- Generous paid leaves
- Stability

Main Job Duties:

- Work under the direction of the Traffic Engineer on design, construction and maintenance of signage, pavement markings and delineation of both the mainline and interchanges.
- Assist with the development of standards and policies for traffic control and temporary traffic control.
- Prepares and reviews traffic control and temporary traffic control plans.
- Recommends and prepares specifications for traffic control materials and devices.
- Conducts audit inspections and initiates actions to correct deficiencies of traffic control devices in construction work zones.
- Prepares contract documents.
- Preparation or review of maintenance of traffic plans for construction projects.
- Coordinate and review construction plans, specifications and cost estimates prepared by consulting engineers, architectural firms and/or contractors.
- Processes and coordinates the advertising of construction documents for bidding.
- Assists in reviewing, coordinating, and resolving construction, maintenance and traffic issues with consulting engineers, testing laboratories, contractors, Ohio Turnpike Maintenance, and Highway Patrol.
- Assists in monitoring and inspection of construction projects.
- Work under the direction of the Traffic Engineer on ITS, connected vehicle and traffic management system projects.
- Assisting with the development and production of plans, specifications, and estimates for ITS systems, including fiber optic and wireless communications systems, Closed Circuit Television (CCTV), Digital Message Signs (DMS), vehicle detection systems, Roadway weather information systems (RWIS), Intelligent Work Zones, Smart Lighting and other ITS technologies and sub-systems, such as open road tolling, CAV projects and managed lanes technologies.
- Assist with the development of Standard Operating Procedures (SOPs) for ITS and CAV systems operation and maintenance.
- Customization of existing systems to leverage data for traffic engineering purposes.
- Dashboard development for reporting/tracking ITS assets.
- Develop Specifications for implementation of new systems.

- Coordinates work elements with in-house maintenance staff, contractors, government agencies, organizations, and the public.
- Participates in the coordination of planning, resource allocation and budget development to ensure efficient program performance.
- Research innovative applications of technology to various fields of transportation and develop and present solutions – This includes CAV technology.
- Perform preliminary field engineering (field equipment testing, utility, and infrastructure verification, i.e., taking measurements and pictures at field sites)
- Write technical reports and memoranda.
- Participate in Statewide committees regarding ITS and CAVs.
- Processes and coordinates the advertising of construction documents for bidding.
- Assists in monitoring and inspection of construction projects.
- Responds to questions and inquiries from the general public, contractors, consultants, and agency staff in area of expertise.
- Provides technical assistance in preparation of public education materials, outreach documents, and public meeting presentations.
- Work with Technology Department regarding data acquisition and management.
- Interact with various levels of OTIC management to educate, seek guidance, and establish mechanisms that allow for accelerated adoption of connected and automated vehicle technologies.
- Act as a backup to the Traffic Engineer for the OTIC Traffic Incident Management (TIM) process and recommend improvements and assists with the implementation process.
- Responsible for coordinating work orders with the Maintenance Operations Engineer for the repair, replacement, and installation of all traffic control devices; for revisions to existing pavement markings and installation of new pavement marking on the mainline and at interchanges and service plazas.
- Assists the Traffic Engineer with the OTIC Long Combination Vehicle (LCV) Program including preparing for and conducting group meetings with program participants, conducting audit and training meetings with individual program participants, research and evaluation of driver qualifications, technical supervision of the LCV Coordinator, and researching issues and preparing draft language for proposed revisions to the program.
- Assists the Traffic Engineer with the Crash System Recording and Reporting Program, including reviewing summary reports for content and quality of data.
- Review summary reports and data for the purpose of detecting potential safety problems with the highway system.
- Reviews fatal crash reports; develops recommendations for safety improvements to the highway system.
- Performs any other duties as may be assigned by the Traffic Engineer.

Work Characteristics:

- Knowledge of structural engineering concepts in both design and construction.
- Skill in use of computer equipment and programs related to structural analysis and load ratings.
- Ability to comprehend and interpret variety of civil engineering principles, techniques, procedures, criteria, plans, specifications, and related data.
- Define problems, collect data, establish facts, and draw valid engineering/technical conclusions.
- Use statistical analysis; knowledge of safety practices associated with bridge and structural component inspections; cooperate with co-workers on group projects.
- Handle routine and sensitive contacts with government officials, consulting firms, contractors, and general public.
- Plan and develop engineering projects with unique or controversial problems and/or novel engineering related concepts and approaches.

- Respond quickly and efficiently to incidents which may affect the safety of customers, the completion of contracts, and delays to contractors.
- Effectively accomplish several work assignments simultaneously.
- Ability to resolve disputes among stakeholders.
- Develop internal/external public relations.
- Interpret FHWA safety standards; implement employee training and development.
- Employ supervisory principles and techniques.
- Knowledge and skill with various computer programs including AASHTOWare BrR, Primavera P6, AutoCAD, Microsoft Project, Excel, Word, and Access.

Minimum Qualifications:

- Bachelor of Civil Engineering degree; licensed Professional Engineer in the State of Ohio; must have no less than five (5) years' experience in the application of the Ohio Manual of Uniform Traffic Control Devices (OMUTCD).
- Project experience in ITS planning, design and/or traffic operations.
- Experience with ITS equipment and/or communications systems (cellular, fiber, wireless).
- Experience with FHWA Systems Engineering Process (Concept of Operations, ITS Architecture, System Requirements).
- Strong written and verbal communication skills required.
- Must have strong problem-solving skills and the ability to develop and implement process improvements.
- Must possess and maintain a valid Ohio driver's license.
- Experience with Geographic Information Systems (GIS) preferred.
- Registration as a Professional Traffic Operations Engineer (PTOE) is encouraged.

Unusual Working Conditions:

The predominant work environment is the office; however, the work environment includes driving and field reconnaissance during the day and night. Must be able to navigate construction work sites on foot. Some climbing of ladders or obstacles may be required. May work varying hours. Required to travel throughout the distance of the Ohio Turnpike.

Application Process:

Those interested may obtain a copy of the employment application [HERE](#). Individuals must print the application, fill out using a blue or black pen, and send it along with a cover letter and resume via U. S. mail to:

The Ohio Turnpike & Infrastructure Commission
 Attn: Human Resources Manager
 Reference Code: Assistant Traffic & Highway Engineer
 682 Prospect Street
 Berea, Ohio 44017

Applications will be received until position is filled.

The Ohio Turnpike & Infrastructure Commission provides equal employment opportunities to all employees and applicants for employment and prohibits discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state, or local laws.