

SENIOR TRANSPORTATION ANALYST

DISTINGUISHING FEATURES OF THE CLASS: This work has responsibility for collecting and analyzing transportation and land use data and for the analysis of traffic operations for existing and proposed roads, streets, and highways. The incumbent maintains and operates the Binghamton Regional Travel Model, a computer-based travel demand model for the maintenance and application of a Geographic Information System (GIS). Work is performed under the general supervision of the Director of Transportation Planning. Oversight of subordinate staff may be performed. Does related work as required.

TYPICAL WORK ACTIVITIES:

Conducts short range traffic studies involving the review of traffic capacity and safety measures;
Analyzes accident statistics and recommends remedial measures;
Analyzes data to find means to improve transportation safety and minimize environmental impact;
Prepares traffic or usage estimates for proposed projects;
Prepares preliminary technical material in support of long and short-range transportation plan development;
Obtains relevant transportation and land use data for input in order to model real world transportation conditions in an accurate manner;
Develops, maintains and utilizes transportation applications for Geographic Information Systems to store, manipulate and analyze data;
Uses GIS and travel demand software to produce travel forecasts for use in the development of transportation plans, study development activities and land use planning activities;
Designs, creates and/or updates a variety of maps utilizing GIS;
Consults with New York State Department of Transportation and local government staffs regarding transportation projects.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Thorough knowledge of techniques used to gather data for statistical analysis and reports;
Thorough knowledge of the concepts, practices and techniques related to developing, maintaining and operating a GIS;
Good knowledge of the principles and techniques related to the transportation planning process;
Good knowledge of travel forecasting analysis techniques, procedures and methods;

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Good knowledge of the concepts and techniques of traffic simulation modeling;
Good knowledge of transportation data sources;
Working knowledge of standard GIS and travel demand modeling software;
Ability to operate a personal computer and utilize software programs including word processing, spreadsheets and databases;
Ability to perform close, detail work involving considerable visual effort and concentration;
Ability to analyze and organize data, draw conclusions and use data to prepare records and reports;
Ability to communicate effectively both orally and in writing to both technical and non-technical audiences;
Ability to establish and maintain effective working relationships with others;

MINIMUM QUALIFICATIONS;

A) Possession of a Master's Degree in transportation planning, transportation engineering, urban planning, geography, or closely related field and two years of experience in transportation planning which shall have involved travel forecasting, operating a computer-based travel demand model and the use of Geographic Information System (GIS) software; OR

B) Possession of a Bachelor's Degree in transportation planning, transportation engineering, urban planning, geography, or closely related field and four years of experience in transportation planning which shall have involved travel forecasting, operating a computer-based travel demand model and the use of Geographic Information System (GIS) software; OR

C) An equivalent combination of training and experience as defined by the limits of A) and B) above.

NOTE: Your degree must have been awarded by a regional, national, or specialized agency recognized as an accrediting agency by the U.S. Department of Education/U.S. Secretary of education. If your degree was awarded by an educational institution outside of the United States and its territories, you must provide independent verification of equivalency. A list of acceptable companies who provide this service can be found on the internet at <https://www.cs.ny.gov/jobseeker/degrees.cfm>. You must pay the required evaluation fee.