

## WATERSHED TECHNICIAN

**DISTINGUISHING FEATURES OF THE CLASS:** The position is responsible for supporting staff from the Ulster County Soil and Water Conservation District and the Ashokan Watershed Stream Management Program in the collection, management and reporting on geomorphic stream data. The work involves assisting with stream assessments, data analysis, and the development of watershed reports and recommendations. The incumbent also performs cross section and longitudinal stream channel surveys. Work is performed under the direct supervision of the Stream Management Project Manager with leeway allowed for exercising independent judgement in carrying out the details of the work. Supervision may be exercised over Interns within the agency. Does other related work as required.

**TYPICAL WORK ACTIVITIES:** The typical work activities listed below, while providing representative examples of the variety of work assignments in the title, do not describe any individual position. Incumbents in this title may perform some or all of the following, as well as other related activities not described.

Visually assesses and records stream characteristics such as geomorphic and geological attributes;

Collects GPS data, takes digital pictures, notes and performs post processing tasks;

Analyzes streams with geographic information systems (GIS) to describe watershed information;

Performs stream channel surveys to determine erosion rates and other hydraulic and hydrological variables;

Assists in creating stream management plans by synthesizing field data into scientific reports;

Manages geo-database following established protocols;

Attends and participates in various meetings or training sessions;

Assist in the maintenance of all District equipment;

Completes duties associated with other Soil and Water Conservation District programs;

Analyzes collected data, timesheets and work reports, prepares and submits narrative and statistical reports as needed.

**FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:** Good knowledge of the physical and geographic landscape of Ulster County; working knowledge of the principles, practices, techniques and programs used in environmental and natural resources planning and conservation management with emphasis on watershed assessment; working knowledge of hydrology stream morphology and restoration principles; working knowledge of the methods of collection and interpretation of data; working

knowledge of geographic information systems; ability to use computer software involving use of spreadsheets and databases; ability to compile and prepare technical written reports; ability to communicate effectively both orally and in writing; ability to supervise the work of others; initiative; good judgment; willingness to work outdoors under adverse weather conditions; physical condition commensurate with the demands of the position.

**MINIMUM QUALIFICATIONS:** Either:

A. Graduation from an accredited college or university with a Bachelor's Degree in Environmental Science, Environmental Engineering, Natural Resources Management, Natural Sciences, Geographic Information Systems (GIS), Hydrology or a related field; **OR**

B. Graduation from an accredited college or university with an Associate's Degree in Environmental Science, Environmental Engineering, Natural Resources Management, Natural Sciences, Geographic Information Systems (GIS), Hydrology or related field and two (2) years of full-time paid or its part time equivalent work experience in stream management, watershed management, environmental management or similar experience; **OR**

C. Graduation from high school or possession of a high school equivalency diploma and four (4) years of full-time paid or its part time equivalent work experience in stream management, watershed management, environmental management or similar experience; **OR**

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

**Special Requirement:** At time of appointment, and throughout employment in this title, candidate must possess and maintain a valid New York State Driver's License appropriate to the vehicles operated.

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ULSTER COUNTY  
7663 WTR TECH  
Classification: Competitive  
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Adopted: April 6, 2022