

## **STREAM TECHNICAL SPECIALIST**

**DISTINGUISHING FEATURES OF THE CLASS:** The Stream Technical Specialist will serve as the primary point of contact and coordinator for tasks related to identification, design, construction and monitoring of stream restoration projects. This role will support the identification and implementation of stream restoration projects that align with programmatic goals established by the UCSWCD and NYCDEP, in accordance with the revised 2017 Filtration Avoidance Determination (FAD) and natural channel design principles. The incumbent is responsible for technical duties as needed by the Ashokan Watershed Stream Management Program (AWSMP), ranging from stream assessment and monitoring and development of stream management plans to construction implementation to assisting with stream restoration design. The incumbent will coordinate technical work activities related to the component of the program as part of a five-year agreement between the UCSWCD and the NYCDEP, in support of the New York City Water Supply FAD. Work is performed under the direct supervision of the UCSWCD Executive Director and the UCSWCD Project Manager. General supervision is exercised over field technical staff, project assistants, interns and volunteers. Does 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 the following, as well as other related activities not described.

Completes project monitoring, summarizes data, completes project status reports and identifies necessary maintenance;

Conducts stream feature inventories (SFIs) to identify stream reaches contributing to turbidity and to support the selection of future stream restoration projects, using survey grade GPS, drone surveys and digital photography as a part of the data collection process;

Trains and oversees junior technical staff and interns in the performance of stream assessment activities, including topographic and channel surveys to evaluate erosion rates and other hydraulic and hydrological variables, using survey grade GPS, LIDAR, drone-based aerial imagery and other surveying techniques;

Performs general topographic and stream channel surveying of stream restoration project sites and control reaches;

Performs GPS-based reconnaissance mapping, fluvial geomorphic surveys/ monitoring, and riparian vegetation assessment and monitoring as needed;

Performs stream channel geomorphic surveys/assessments such as cross sectional and longitudinal profile surveys, as well as pebble counts;

Assists with the identification and mapping of potential riparian vegetation restoration sites and bioengineering designs;

Aids the UCSWCD Project Manager and the UCSWCD Stream Design Engineer with construction implementation quality assurance of stream restoration projects;

Assists as needed on the preparation of design, permitting documents, RFPs and requests for bid;

Maintains and manages the geodatabases pertaining to stream assessment and monitoring activities;

Prepares post construction monitoring and associated reports;

Assists in the development of annual Stream Assessment and Monitoring Plans;

Oversees the production of stream diagnostic assessment reports for each assessed stream, detailing the assessment findings and management recommendations;

Writes and edits reports to assist in the preparation of presentations, permit applications and grant proposals;

Organizes and converts data into usable formats from various field work sources, i.e. stream inventory and data collection, assessment of geomorphic stability and geological health of streams, vegetation monitoring and the establishment and monitoring of experimental treatment projects;

Solicits private landowners for participation and permission toward the activities of the program (i.e. monitoring activities, SFIs, and stream restoration projects);

Participates in an AWSMP Stream Ecosystem Working Group;

Hosts and participates in workshops with the NYCDEP and Cornell Cooperative Extension of Ulster County (CCE/UC) and may include preparation of written and/or materials for presentation.

**FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:** Good knowledge of federal, state, and local laws, rules and requirements relating to watershed and water conservation programs; good knowledge of the principles, practices and procedures of watershed and stream geomorphic assessment (with preference for experience with Rosgen methods); working knowledge of contract and intern management; working knowledge of equipment and software including, GIS, GPS, RIVERMorph and CAD; working knowledge of field assessment techniques for collecting,

analyzing and interpreting statistical data; working knowledge of natural channel design and restoration techniques using applied fluvial geomorphology; skill in the use of a variety of electronic data instruments; ability to become familiar with local geography and physical resources; ability to secure the cooperation of others and to deal effectively with a wide variety of governmental agencies, municipalities or individuals; ability to assist in the development and oversee technical aspects of an engineered project; ability to prepare and present statistical and narrative reports both orally and in writing; tact; courtesy; resourcefulness; physical condition commensurate with the demands of the position.

**MINIMUM QUALIFICATIONS:** Either:

- A. Possession of a bachelor's degree in Natural Resources Management, Forestry, Landscape Design, Environmental Science, or a closely related field to watershed management or natural resource planning, and two (2) years of work experience in water resource management; **OR**
- B. Possession of an associate's degree in Natural Resources Management, Forestry, Landscape Design, Environmental Science or a closely related field to watershed management or natural resource planning, and four (4) years of work experience in water resource management; **OR**
- C. An equivalent combination of training and experience as designated in A and B above.

**Note:** At time of appointment, and throughout employment in this title, candidate must possess and maintain a valid Driver's License appropriate to the vehicles operated by the agency.

**Note:** Your degree or college credits must have been awarded or earned by a college or university accredited 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 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 <http://www.cs.ny.gov/jobseeker/degrees.cfm>. You must pay the required evaluation fee.

ULSTER COUNTY  
6977 ST TEC SP  
Classification: Competitive  
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