

ASSOCIATE PLANNER (HYDROLOGY)

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, an incumbent of this class reviews hydrologic analyses, surface water and erosion controls for proposed construction projects, and participates in watershed model preparation and implements existing watershed models. The incumbent must make decisions relating to complex technical practices recommending the adoption of specific water management and soil control methods to individuals and municipalities. Supervision may be exercised over Planners and clerical staff; does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Reviews Environmental Impact Statements, wetland assessments, hydrologic analyses, and erosion control plans for accuracy and adequacy and works with municipal engineers and planners to recommend optimum site planning related to these areas of concern;

Performs on-site investigations to determine need, feasibility, and adequacy of proposed stormwater management facilities and erosion control plans related to proposed developments;

Prepares detailed written technical reports summarizing findings based on review and analysis of studies and field investigations;

Develops recommendations for improving site planning in terms of soil and water resource concerns;

Participates in the inspection of construction project and other work in progress to determine adherence to recommended conservation plans and practices, wetland assessment, non-point source planning and related applications;

Develops data bases and resource maps in preparation for watershed modeling, and implements existing watershed models in reviewing proposed municipal developments and for other purposes;

Meets with municipal technical and planning staffs, consultants, and developers to determine appropriate hydrologic and erosion controls for proposed developments;

Assists in the planning and application of various structural and non-structural measures involved in watershed protection, flood prevention, non-point source pollution planning, erosion and sediment control;

Assists individuals and agencies in interpreting the Westchester County Soil Survey, use of the USDA SCS TR-SS, and dispenses information on request;

Assists homeowners and other requesting parties in analyzing and recommending solutions for drainage and related land use problems;

EXAMPLES OF WORK: (Illustrative Only)

Attends meetings with government agencies, civic, fraternal and other private and community groups to present information and audio-visual materials related to technical studies undertaken by the Planning Department;

Collects and develops data for preparation of technical guides and manuals;

Advises and takes responsibility for modifying, updating, and revising technical guides and manuals.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of methods of surface hydrology and hydrologic analyses, particularly in the areas of detailed stormwater management, detention basin sizing, assessment of storm frequencies and flows, analysis of watershed parameters (time of concentration, curve numbers, etc.); thorough knowledge of non-point source pollution planning and analysis; thorough knowledge of soils and interpretation of the federal soils classifications; thorough knowledge of erosion potential and standard solutions and design; thorough knowledge of use of computers for implementation and development of watershed stormwater management models; good knowledge of USDA hydrology and soils conservation practices; good knowledge of the general principles and techniques used in County, municipal, and regional planning with respect to soil and water conservation practices; ability to develop, compile, analyze, interpret, and present technical data; ability to plan, organize, and present ideas clearly and concisely in a timely fashion, both orally and in writing; ability to interpret rules, regulations, and guidelines; ability to work well with others and conduct self in a professional manner; reliability; good judgment; tact; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: Possession of a high school or equivalency diploma and either: (a) Bachelor of Science Degree* in Environmental Studies, Civil Engineering, Geology, Physical or Natural Sciences and three years of planning experience in surface water hydrology; or (b) Master's Degree* in Environmental Studies, Civil Engineering, Natural Resource Planning, or Geology with emphasis in surface water hydrology and two years of experience as defined in (a); or (c) an equivalent combination of training and experience as defined by the limits of (a) and (b).

*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.

SPECIAL REQUIREMENT: Possession of a valid New York State Driver's License at time of appointment.