

Watershed Agricultural Council

Agriculture ♦ Forestry ♦ Conservation Easements ♦ Economic Viability

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Engineering Specialist - East of Hudson Program Position Description

Engineering Specialist

The Engineering Specialist is a member of a technical team responsible for the implementation of Whole Farm Plans on horse, livestock and crop farms in New York City's Croton Watershed for the protection of drinking water quality.

Education and Experience Requirements:

- Associates Degree required, Bachelor's degree in Civil or Environmental Engineering or related field preferred.
- Two years experience surveying, planning, engineering and implementing agricultural or stormwater quality Best Management Practices (BMPs).
- Strong proficiency in Microsoft Office 2010 applications including Word, Excel, PowerPoint and Outlook.
- Two years experience using AutoCAD or Civil 3D software.
- Two years experience using surveying equipment; e.g. total station, data collector.
- Ability to maintain a professional working relationship within a team setting.
- Knowledge of basic engineering and construction practices used in the design of agricultural and water quality BMPs.
- Ability to communicate clearly both orally and in writing.
- Ability to work outdoors, at times in adverse weather conditions.
- Must have a valid and current driver's license.

Additional Preferred Qualifications:

- Experience in the agricultural industry or knowledge of farming practices on livestock, horse or crop operations.
- One or more years of experience using GIS software.

Duties and Responsibilities:

- Conduct topographic surveys using a total station and data collector, import data into AutoCAD Civil 3D and design structural BMPs.
- Prepare, analyze, and convert GIS data for use in engineering design. Prepare cost estimates, technical specifications, and perform construction oversight of agricultural structural and non-structural BMPs.
- With guidance from the Professional Engineer; prepare engineering designs and construction plans according to USDA-NRCS standards and specifications.
- Explain design packages and procurement procedures to participants (private landowners), and coordinate project implementation with contractors and participants.
- Assist in checking conformity with plans and specifications during construction inspection.
- Assist planning team with Whole Farm Planning efforts and the selection and estimating the cost of new BMPs and repairs.
- Works closely with the Professional Engineer of the Agricultural Program.

Reporting Relationships:

- Works under the supervision of the East of Hudson Agricultural Program Coordinator or his/her designee.