

JOB DESCRIPTION

FLSA Classification: NON-EXEMPT

Last Updated: February 11, 2025

Mosquito-borne Disease Control Technician – Seasonal Full-Time Northumberland County Conservation District

General Statement of Duties

The Mosquito-borne Disease Control Technician will assist with the implementation of the mosquito-borne disease control and Integrated Mosquito Management (IMM) throughout a five-county area; specifically, Northumberland, Columbia, Montour, Snyder, and Union counties (five-county area). Key duties include fieldwork, data collection and entry, mosquito-borne disease control activities, and coordination with the Pennsylvania Department of Environmental Protection (PA DEP) staff.

Organizational Relationships

The Seasonal Full-Time Mosquito-borne Disease Control Technician serves directly under the Full-Time Mosquito-borne Disease Control Program Coordinator. He/she is also accountable to the Northumberland County Conservation District (NCCD) Manager and the PA DEP to meet the terms of the contract pertaining to the Mosquito-borne Disease Control Program.

This position is subject to the direction and wishes of the District Manager and the Board of Directors of the NCCD. When there appears to be a conflict between this description and the direction of the NCCD, then the instructions from the District Manager and the Board will control the actions of the Mosquito-borne Disease Control Technician position.

Job Duties and Responsibilities

Mosquito-borne Disease Control Program

- Conduct comprehensive field studies and monitoring on the abundance, distribution, and life stage of mosquitoes as it relates to effective treatment in the five-county area.
- Collect and submit mosquito samples on dry ice for virus isolation.
- Enter all collected data into the PA DEP West Nile Virus Data System and correctly ship biological samples to the PA DEP's lab in Harrisburg, PA.
- Use effective mosquito larviciding methods to target known vectors of West Nile Virus and Zika Virus, particularly *Culex* and *Aedes albopictus*, while maintaining accurate records according to the PA Department of Agriculture regulations.
- Conducts weekly tick collections for the monitoring of pathogens and distribution of ticks in coordination with DEP's Tick Surveillance and Testing Program?
- Disseminate press releases indicating when and where spray applications will be applied. Also notify individuals in the Pennsylvania Pesticide Hypersensitivity Registry, local beekeepers, and local municipal officials.
- Assist Coordinator and/or regional PA DEP staff when mosquito adulticide operations are planned within the five-county area.
- Conduct pre- and post-treatment monitoring of mosquito locations and map mosquito production areas.
- Attend meetings and training sessions that discuss the administration of the Mosquito-borne Disease Control program.
- Assist with the maintenance of the storage shed for pesticides and program equipment.
- Attend staff, Board, and other meetings, if needed.

ADDITIONAL JOB FUNCTIONS

- Operate a variety of machinery, equipment, and tools associated with work activities, which may include a motor vehicle, camera, mosquito collection equipment, pesticide application equipment, office equipment, and other instruments.
- Maintain daily narrative of work activity, accurate timesheet, and mileage log. Turn in a daily log on a weekly basis and timesheet and mileage log on a monthly basis.
- Assist with the realization of the District's annual work plan.
- **This job description in no way states or implies that these are the only duties to be performed by the employee in this position. Other duties may be required and assigned by the District Manager and/or the NCCD Board of Directors.**

WORKING CONDITIONS

- Work a combination of indoors with adequate workspace, lighting temperatures and ventilation; and outdoors with visits to properties which may include subjectivity to water, fumes, chemicals, smoke, manure, dirt, weather, or other conditions during outdoor visits to construction sites or dirt roads.

- This position requires multiple hours of driving daily.
- May have to navigate and traverse in rough terrain during adverse weather conditions.
- Subject to multiple deadlines, frequent disruptions, and moderate stress.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES

- Skill in working with the public. Ability to communicate effectively, both orally and in writing. Ability to listen and be objective. Ability to develop and maintain relationships.
- Ability to utilize information such as administrative procedures manuals, knowledge of computer word processing, database, spreadsheet and presentation software and ability to operate computers; ability to utilize advisory data and information such as technical operating manuals, procedures, guidelines, non-routine correspondence, laws, and regulations.
- Ability to perform addition, subtraction, multiplication, and division; ability to calculate decimals and percentages; may include the ability to perform mathematical operations involving basic algebraic principles and formulas, and basic geometric principles and calculations.
- Ability to exercise judgment, decisiveness, and creativity in situations involving the evaluation of information against measurable criteria.
- Ability to coordinate eyes, hands, feet, and limbs in performing skilled movements such as rapid keyboard use.
- Ability to exert physical stress. Ability to lift at least 60 pounds, carry, push and pull. Ability to stoop, kneel, crouch, climb and crawl.
- Ability to endure mental stress that may result from day-to-day activities.
- Ability to travel overnight and/or multi-day when necessary to attend functions related to training, conservation, natural resources or environment, or any functions for the greater good of the Conservation District.
- Must initiate own work and can complete assignments with minimal oversight.
- Must have patience, tact, a cheerful disposition, enthusiasm, and the willingness to handle a wide range of individuals.
- Ability to provide own transportation with mileage expenses being reimbursed by the District.

MINIMUM QUALIFICATIONS

- Bachelor's degree in environmental sciences, entomology, biology, or related fields preferred, but not necessary; related experience; and knowledge of GIS preferred, but not necessary.
- Must be able to pass the PA Child Abuse History Clearance (Act 151), PA State Police Criminal Background Check, and Fingerprinting immediately upon hiring and every 4 years.
- Must be able to pass the Pennsylvania Department of Agriculture's Pesticide Applicator Certification Test and maintain certification.
- Must have a clean driving record. A valid Pennsylvania driver's license is required.

This job description in no way states or implies that these are the only duties to be performed by the employee occupying this position. Employees will be required to follow any other job-related instructions and to perform any other job-related duties as requested by their supervisor.

This job description is not intended to be a contract for employment, but rather a description of this position's job duties. All District employees are employed at-will, meaning that either NCCD or the employee may terminate the employment relationship at any time, for any reason, with or without notice.

NCCD is an Equal Employment Opportunity employer that does not discriminate on the basis of race, color, religion/creed, sex, sexual orientation, gender identity, disability, marital status, age, pregnancy, national origin, ancestry, genetic information, possession of a General Education Development Certificate as compared to a high school diploma, veteran status, or any other characteristic protected by the applicable federal, state, or local laws. This commitment applies, but is not limited, to decisions made with respect to hiring, placement, compensation, benefits, promotions, demotions, transfers, terminations, layoffs, return from layoffs, administration of benefits, and all other terms and conditions of employment. Likewise, employees are responsible for respecting the rights of their co-workers, as we must all work together to ensure continued success.