



Southeast Regional Service Commission

Mosquito 360

2025 Summer Student Job Opportunity

Environmental Surveillance Technician

Mosquito 360 serves as the Mosquito Management division of the Southeast RSC and is looking to hire a (Mosquito) Environmental Surveillance Technician for the upcoming 2025 field season. The ideal candidate will have a background, or serious interest, in one or more of the following fields: ecology, biology, chemistry and/or environmental science. Successful candidates will work to help monitor and manage seasonal mosquito populations in the southeast region of New Brunswick.

About Mosquito 360

Mosquito 360 exists to monitor and manage local mosquito populations, ultimately lessening the degree of public nuisance associated with their biting behaviours. Mosquito control is primarily achieved by targeting the larval stage of mosquitoes, being the most effective point in their lifecycle for intervention. Control is done via the strategic use of a biological larvicide, *Bacillus thuringiensis israelensis* (Bti), which is applied directly to viable aquatic breeding sites, ultimately disrupting the mosquito breeding cycle and preventing maturation into the adult mosquito stage. Mosquito 360 employs an IMM (integrated mosquito management) approach to mosquito control, providing a data-driven, effective, and safe solution to management objectives. Key components of the program include surveillance and monitoring, targeted larvicide applications, and community engagement.

Tasks and Responsibilities

The Environmental Surveillance Technician will play an important role in conducting mosquito surveillance and monitoring activities to help support an effective management program. This position will largely focus on adult mosquito trapping, larval monitoring, environmental monitoring, and species identification, all of which help to inform and implement subsequent management strategies. The Surveillance Technician will generally spend their days working independently, or within a small team, both within the program's operation centre and across the region's wetlands, parks, trails, schools, and other public site classifications. Surveillance Technicians may also be required to help in the application of biological larvicide and to collect both pre- and post-treatment assessments.

As part of your role, you and any crewmate(s) will be required to walk, use bicycles, and use utility/all-terrain vehicles to navigate diverse terrains, including large wetland environments and other natural and urban areas. Handheld tools are typically used for most field operations, including both data collection and larvicide applications. Data management and recording will be done via the use of iPads and computers, incorporating programs such as FastFields, Excel, Word, GIS, and other collection software. In addition to these daily duties, the technician may also be required to perform general end-of-day tasks, such as: cleaning, maintenance, and inventory.

Skills & Qualifications

- Class 5 driver's license is required. Experience driving off-road vehicles is considered an asset. Experience towing a trailer is considered an asset.
- Recent graduation from or current enrollment at a recognized post-secondary institution. Relevant fields of study include, but are not limited to:
 - STEM (Science, Technology, Engineering, Mathematics)
 - Environmental Sciences / Environmental Studies
 - Biological Sciences
 - Entomology
 - Zoology
 - Ecology
 - Those in other disciplines who may have an interest in biology, or the environment are also invited to apply.
- Proficiency in operating stereo microscopes and in species identification is considered a strong asset.
- Familiarity with mosquito surveillance techniques is considered an asset.
- Knowledge of Geographic Information Systems (GIS) or other mapping tools is considered an asset.
- Knowledge of statistical methods and software's (such as Excel, Stata, etc.) is considered an asset.
- Successful candidates must pass a Pesticide Applicator Test under the NB Dept. of Env. and Local Government before starting work. Registration fees for the test will be covered by the Southeast RSC.
- Successful candidates may be required to pass a Radio Operator's exam (ROC-A), administered by a Transport Canada accredited examiner. Requirement of this certification is at the discretion of the program management. If applicable, registration fees for this exam will be covered by the Southeast RSC.
- Proficiency and/or familiarity with Drones is considered an asset.
- Proficiency in Microsoft Office suite (Outlook, Word, Excel) and familiarity with iPads for data collection and form submission is considered an asset.
- Proficiency in written and spoken English is required. Bilingual French is considered an asset.

Candidates must:

- Conduct themselves professionally and have a high regard for the safety of yourself and others.
- Be reliable when working independently, and/or with minimal supervision.
- Be a team player with strong interpersonal and collaborative skills that thrives in close-knit, team-orientated environments.
- Prepared and willing to navigate challenging terrain, often on foot, including areas with significant mud, water, dense vegetation, and exposure to insects.
- Capable of balancing time management while maintaining a strong attention to detail. Must be able to meet work objectives on a schedule.
- Be intuitive, a fast learner, and able to quickly problem solve and adapt to changes in circumstance and/or environment.
- Ready and willing to take initiative.

Start Date: April 28th, 2025

End Date: September 1st, 2025

Hourly Wage: \$19.00 - \$23.00 (based on work experience and education)

Work Schedule: 40 hr./week, Monday – Friday, 8am – 4:30pm

Work Location: 225 Commerce St., Moncton, NB

Application Deadline: March 14th, 2025

Candidates are invited to submit their resume and cover letter by email to

humanresources@nbse.ca .

Candidates need to be legally entitled to work in Canada.

SERSC wishes to thank all applicants for their interest. However, only those selected for an interview will be contacted.