

MOSQUITO ABATEMENT

ST. TAMMANY PARISH

JOB DESCRIPTION

Job title: Molecular Biologist

Job purpose: Responsible for molecular research and assisting with lab projects.

Duties and responsibilities:

- Conducts molecular assays, including routine arbovirus and resistance surveillance.
- Assists with design and optimization of molecular assays.
- Coordinates purchase and manages inventory of molecular reagents.
- Schedules equipment maintenance and performs routine maintenance and calibration.
- Assists with BSL-2 inspections and annual biosafety certification requirements.
- Develops and writes protocols for scientific studies.
- Helps collect and identify mosquitoes as part of routine surveillance.
- Assists Lab Manager/ Entomologist, Taxonomist, Laboratory Assistants, Field Biologists, and other STPMAD personnel.
- Assists with Education/Outreach community events by representing STPMAD.
- Communicates effectively and professionally with colleagues and supervisors.
- Maintains a culture and attitude of safety, cleanliness, and professionalism.

As needed duties:

- Conducts other laboratory and field research for a variety of scientific projects.
- Presents research at professional meetings.

Minimum qualifications:

- Current driver's license.
- Basic computer and tablet/smartphone proficiency.
- Bachelor's degree in molecular biology, microbiology, biology, entomology, virology, public health, or related field.
- Obtain a license from the Louisiana Department of Agriculture and Forestry (category 8A) for applying mosquito control insecticides within 6 months of date of start.

Preferred qualifications:

- Master's degree in molecular biology, microbiology, bioinformatics, virology, or a related field.
 - OR Bachelor's degree in a related field and at least 5 years of molecular experience.

Working conditions:

Working conditions will require working outdoors in a variety of environmental conditions and early morning, evening, and weekend work at times. Employee may use or be around power tools and heavy equipment including all-terrain vehicles, airboats, and forklifts. Sitting in an office or classroom for extended periods of time such as at a meeting will be required. Extended periods of time using a computer will be required.

Physical requirements:

This position can be a physically demanding job at times and will require extended periods of walking, kneeling, and bending over. The person must be able to maintain balance and safely walk on uneven

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surfaces such as the slope of a roadside ditch. The person must have the ability to lift at least 30 pounds at times, work around water, use power tools, climb ladders, and ability to drive. Starting work early in the morning or working late into the evening may be required.