

BEACH MOSQUITO CONTROL DISTRICT

JOB DESCRIPTION

Position: Entomology/Biology Assistant

Salary Range: \$19.03 - \$31.45 Hourly
\$39,582 - \$65,416 Annual

Classification: Non-Exempt

DISTINGUISHING FEATURES OF WORK

The Entomology Assistant assists with all aspects of arthropod (mosquito) vector surveillance and reports data. Determines efficacy and efficiency of insecticides. Applies pesticides, *as needed*, for mosquito control activities utilizing available application techniques/equipment. Work is performed under the supervision of the Entomologist and the Director.

PRIMARY JOB DUTIES

As a back up to the Entomologist, the Entomology Assistant:

- ◆ Identifies adult mosquitoes and larvae to the genus and species.
- ◆ Conducts surveys of mosquito larvae and adult population measurement.
- ◆ Evaluates trapping techniques for adult mosquitoes.
- ◆ Conducts blood drawn with needles from the sentinel chickens weekly.
- ◆ Processes serum samples from the arbovirus disease sentinel chicken flocks.
- ◆ Maintains upkeep of field and shop chicken coop; watering, feeding, and cleaning.
- ◆ Conducts pooling of mosquitoes to determine presence of arbovirus.
- ◆ Investigates resistance of mosquitoes to insecticides being used.
- ◆ Conducts field tests to determine efficiency of insecticides.
- ◆ Establishes and maintains effective working relationships with co-workers, supervisors and the general public.
- ◆ Assists with conducting research into pertinent topics.
- ◆ Assists with maintaining mosquito colonies and Gambusia fish populations.

SECONDARY JOB DUTIES

Revision 07/09/2024

- ◆ Assists District staff with public education efforts and presentations.
- ◆ Assists in arbovirus surveillance activities to include placing and retrieving CO2 tanks and mosquito traps in the field.
- ◆ Assists District staff with *all* aspects of controlling mosquitoes.
- ◆ Assists in laboratory and insectary upkeep and cleanliness.
- ◆ Prepares reports and analysis of District's entomological programs.
- ◆ Performs other duties on an as needed basis.

KNOWLEDGE, SKILLS AND ABILITIES

- ◆ Knowledge of mosquito habitats and breeding areas.
- ◆ Knowledge of pesticides and their mode of action.
- ◆ Ability to read, comprehend and interpret label requirements for all pesticides used by the District.
- ◆ Basic understanding of chemistry conversions and microbiological aseptic protocols.
- ◆ Experience performing biological assays preferred.
- ◆ Experience identifying insects and use of dichotomous identification manuals preferred.

QUALIFICATION REQUIREMENTS

- ◆ Graduation from an accredited college or university with a Bachelor of Science degree in entomology, biology, botany, marine science, wildlife management, zoology, or another related field. Course works in entomology and one (1) year of related professional experience, or an equivalent combination of education, training, and experience.
- ◆ Must hold valid Florida driver's license, or obtain such within 30 days of hire
- ◆ Must be able to obtain and maintain the Public Health Pest Control License within six (6) months of being hired
- ◆ Certified in Mosquito Identification and Taxonomy within twelve (12) months of being hired.

WORK ENVIRONMENT/PHYSICAL REQUIREMENTS

The physical demands and work environment characteristics described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform essential functions.

PHYSICAL REQUIREMENTS: Moderate physical activity is required on a regular basis

including lifting, reaching for, pulling, and carrying up to sixty (60) pounds, reaching and pulling with arms, stooping, standing, bending frequently, sitting for long periods of time while driving a vehicle, walking for long distances, and climbing over and around natural obstacles, and in and out of vehicles and variety of other equipment. Must be able to use hands and fingers to type, and grip and operate a variety of hand tools and other equipment. Excellent vision, both close and distance, is frequently required.

WORK ENVIRONMENT: The work environment varies but normally is outdoors or in a vehicle but may include warehouses, office buildings, vehicles, swamps (wetlands), fields, and open water. Being in these environments may require working near venomous snakes, spiders, and other animals. Regular exposure to all types of weather is required as the position is required to work outside, exposed to high temperatures and humidity, sun, rain, and wind. Frequent local travel within the District is required. Exposure to loud and moderate noise levels will occur on a regular basis when around a variety of other equipment, motors, and engines. Working with and around chemicals, which are stored, handled, applied/used, and disposed of according to labeling instructions, is required frequently. Exposure to moving mechanical parts, mud, fuel, fumes, and insects is required.

This document does not create an employment contract, implied or otherwise.

For further information, contact:

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