

BEACH MOSQUITO CONTROL DISTRICT

Job Description for Entomologist

Salary: Starting at \$21.69/hour, salary to commensurate with experience

NATURE OF WORK

This is professional biological, microbiological, and entomological work in the field and laboratory, involving the application of various mosquito control techniques. Work is performed under the general supervision of the mosquito control director.

Employees in this class utilize techniques of integrated pest management, including biological, chemical, cultural, and mechanical control. Work is partly outdoors, performed under limited supervision and independent judgment is required. Assignments are made orally or in writing.

Physical requirements: Lifting of 50lbs; working under stressful conditions such as heat, rainfall, time constructive deadlines, etc.

Use of and on a regular basis of physical activity such as: bending, reaching with arms and hands, standing, sitting, walking, climbing stairs.

Adequate vision to see computer screens, viewing and the use of microscopes and magnifying apparatus, and viewing written documents is required on a regular basis.

Work Environments: Included offices, laboratories, warehouses, vehicles, swamps, wooded areas, commercial properties. Working around chemicals, which are stored, handled, applied, and disposed of according to exact labeling requirements is required.

Travel: Some travel may be required.

ILLUSTRATIVE TASKS

- Manages and leads the arbovirus surveillance system
- Manages and leads trapping/surveillance programs, collections, and identifications
- Manages surveillance of environmental conditions across the district
- Identification of arthropods with focus on adult and immature mosquitoes
- Monitors and leads pesticide resistance testing
- Monitor and leads product efficacy testing
- Assist the Public Relations department with educational presentations and marketing materials
- Manages *Gambusia* biological control program
- Create and prepare technical reports and present findings and observations
- Performs other duties as assigned or required.

KNOWLEDGE, SKILLS, AND ABILITIES

-Knowledge of intermediate computer skills including Microsoft Office Suite (Excel, Outlook, PowerPoint, and Word), internet communications, databases, and email.

-Knowledge in written grammatical composition. Must possess good organizational, interpersonal and communication skills. Public speaking is desirable.

-Knowledge of the terminology, principles, and techniques used in biological research, analysis, and testing.

- Knowledge of the procedures, techniques, and equipment used in laboratory testing and analysis.
- Knowledge of the methods of data collection and statistical analysis.
- Knowledge of Integrated Pest Management
- Knowledge of pesticide labels and their interpretation
- Knowledge of *Gambusia* rearing and maintaining fish colonies
- Skilled in the collections of arthropods through various methods of trapping
- Skilled in the identification of arthropods
- Skilled in the curation and storage of arthropods
- Skilled in the use of entomological tools
- Skilled in maintaining insectary reared insect populations
- Skilled in the use of scientific laboratory equipment including microscopes, scales, meters, incubators, biosafety cabinets, and sub-zero temperature storage.
- Ability to perform quantitative analysis of scientific data.
- Ability to plan, organize and coordinate work assignments.
- Ability to communicate effectively, both orally and in writing.
- Ability to establish and maintain cooperative teamwork spirit in working relationships with others.
- Ability to deal with the public in an effective manner.
- Ability to utilize problem solving techniques.
- Ability to understand and apply applicable rules, regulations, policies, and procedures relating to biological sciences.
- Ability to learn and understand all phases of the mosquito control program.

RECOMMENDED MINIMUM QUALIFICATIONS

- A bachelor's degree in science from an accredited college or university with a major in one of the biological sciences. A master's degree in science is preferred but a comparable amount of training and/or experience may be substituted for the minimum qualifications.
- Possession and maintenance of a valid Florida Driver's License.
- 3 years minimum experience in mosquito control procedures including surveillance, identification of arthropods, insect rearing, or any other mosquito related research.

SPECIAL REQUIREMENT

- Must obtain and maintain a Public Health Pest Control Certificate within six months of employment with the district.
- Must obtain the Advanced Mosquito Identification Specialist Certification within 2nd year of employment
- Must obtain Advanced Mosquito Control Professional Certification within 2nd year of employment

Beach Mosquito Control is looking for a motivated and enthusiastic biologist to work at our district!

We offer 4-day work weeks, PTO, and a very generous benefits package.

At BMCD, our entomologist:

- Identifies arthropods, with a focus on larval and adult mosquitoes
- Creates technical reports for data on mosquito collections
- Manages a *Gambusia* (mosquito fish) biological control program
- Performs operational tests for insecticide efficacy and resistance
- Manages an arbovirus surveillance program
- Manages a mosquito trapping program
- Assists the Public Relations department
- Other duties as assigned

Must have:

- A bachelor's degree in a biological science or related field, master's degree preferred
- A valid Florida driver's license
- 3 years' experience in the biological sciences or related field
- Proficiency in the Microsoft Suite (Excel, Word, Outlook, etc)
- Proficient in the identification of arthropods, mosquito identification skills preferred
- Proficiency in standard laboratory equipment (microscope, micropipettes, incubators, scales, etc)
- Knowledge of terminology, principles, and techniques used in biological research
- Knowledge of Integrated Pest Management
- Ability to plan, organize, and coordinate a small team effectively
- Ability to communicate effectively, both orally and in writing
- Ability to establish and maintain cooperative teamwork spirit in working relationships with others

To apply, send a resume/CV and a cover letter to James@pcbeachmosquito.com