



Northwest Mosquito and Vector Control District

A Public Health Government Agency

Director of Scientific Programs

**COME BE A PART OF THE NORTHWEST MVCD
FAMILY!**

JOIN OUR TEAM!

Department: Laboratory

Salary: \$110,651. - \$159,071 Yearly

Opening Date: January 6, 2026

Confidential-FLSA Exempt

Closing: Please apply immediately as this recruitment may close at any time upon receiving enough qualified applicants or no later than January 21, 2026.

BASIC FUNCTIONS:

Under general and/or specific directions of the District Manager, plans, coordinates and conducts specialized vector control services. This includes management of staff assigned to the laboratory, mosquito and other vector surveillance programs, molecular techniques such as PCR, use of the sterile insect technique as a means of mosquito control, scientific research and product evaluations, as well as computer and statistical services and related duties.

RELATIONSHIP:

The Director of Scientific Programs (DSP) reports to the District Manager and serves at the will and pleasure of the District Manager. The following positions report to the DSP: Assistant Vector Ecologist, Laboratory Associate, Laboratory Assistant.

CLASS CHARACTERISTICS:

The Director of Scientific Programs is a senior, management-level classification responsible for planning, organizing, directing, and evaluating all scientific and technical components of the District's vector surveillance, research, and laboratory operations. Working under the general direction of the District Manager, this position exercises full supervisory authority over staff assigned to scientific programs, including laboratory personnel and vector ecology support positions.

RESPONSIBILITIES:

1. Under the direction of the District Manager, plans, organizes, and directs the activities of the scientific programs; supervises and coordinates staff conducting all laboratory operations that such as disease testing, pesticide resistance, and other vector related analysis.
2. Plans and conducts research and surveillance of vector populations; establishes a system of vector population measurements, maintains collections, identifies mosquitoes and other vectors, records and evaluates findings, carries out biological and chemical laboratory work; prepares reports including maps, graphs and analyses for program evaluation and development; keeps records of insecticides and herbicides, conducts disease surveillance programs.
3. Conducts laboratory and field tests to determine efficacy of insecticides used under field conditions, coordinates aerial treatments. Manages resistance monitoring, toxicology assessments, and evaluation of control materials and strategies. Operates effectively, electronic devices such as computers, hardware and software, GPS/GIS system including various phases of operation such as data input , analysis, etc.
4. Designs and conducts applied research projects, analyzes data, and prepares scientific reports, presentations, and publications. Assesses the efficacy of field operations and control methods.
5. Participates in determining land and water use and participates in the development of programs to reduce or eliminate environmental factors favorable to vector production; conducts studies and investigations to evaluate effectiveness of source-reduction programs.
6. Prepares training materials and trains employees in safety measures.
7. Supports the Public Information Officer by reviewing, developing, and participating in public relations and community education programs; attends and addresses community meetings and reviews educational material for distribution.
8. Conducts Cal/OSHA, or other Safety inspections.
9. Regular attendance is an essential function.
10. Must maintain confidentiality.

DESIRABLE QUALIFICATIONS:

Knowledge of:

- Ecology and biology of vectors and vector-borne diseases
- Biological sciences
- Pesticides and their application and effects
- Vector surveillance programs
- Procurement processes
- Entomological activities related to vector control
- Federal, State and local laws and regulations regarding vector control
- Computer programs and software

Ability to:

- Identify vectors and their breeding habitats
- Apply biological and ecological principles to survey and monitor vector populations
- Plan and conduct safety inspections
- Apply scientific principles to practical situations
- Communicate with people effectively
- Practice safety techniques and use good judgment in the use of vector control materials and equipment
- Use pesticides according to label specifications and establish standards
- Operate computer and related software
- Analyze data and draw conclusions based on statistical bases
- Train field and lab staff in various categories such as pesticide application, electronic devices.

Education and Experience:

Graduation from an accredited university with a master's degree in science (with 5 years of vector control experience), a doctorate in entomology or related science preferred, with minimum of 3 years of vector control experience. Demonstrated knowledge in research and subsequent publications with appropriate knowledge of entomological activities related to vector control programs.

POST-OFFER PHYSICAL EXAMINATION:

A qualified physician must certify that a candidate is physically able to perform the duties of the position.

FUNCTIONAL REQUIREMENTS:

Individual must be sighted with the ability to demonstrate measurable depth perception.

Minimum of single ear aided hearing.

Ability to speak and write effectively in English.

Ability to frequently traverse uneven ground such as fields, dirt banks, stream beds, and shallow ponds.

Ability to frequently operate a motor vehicle.

Ability to frequently bend at the knees and waist to inspect sources.

Ability to periodically assist in the lifting of objects weighing in excess of 60 pounds.

Ability to periodically perform repetitive motion activities.

Ability to periodically sit for extended periods of time.

Ability to periodically climb ladders.

Ability to use respirator and gloves.

Ability to use Self-Contained Breathing Apparatus (SCBA).

SPECIAL NOTES, LICENSES, OR REQUIREMENTS:

Certificates:

Must possess valid certifications by the California Department of Health Services as a Certified Technician in Mosquito Control, Vertebrate Vector Control and Terrestrial Invertebrate Vector Control within one (1) year of employment and must maintain these certifications while employed in this position.

License:

Possession of a valid driver's license is required at the time of appointment and must be maintained in good standing throughout the employment in this class. Must be insurable with District's insurance carrier at all times throughout employment.

Working Conditions:

Incumbent may be exposed to pesticides, communicable diseases, and other hazards, inclement weather conditions and verbal abusive behavior from hostile individuals.

The District reserves the right to modify, delete, augment, or supplement the duties, qualifications, and requirements stated at its sole and absolute discretion.

Benefits:

The District provides comprehensive benefits package, including insurance (health, dental, and vision), CalPERS retirement (classic rate 2.7% @ 55; PEPR 2.0% @ 62), matching 401(a) contribution (up to 3%), paid leave, employee assistance program, and generous holiday schedule.

Application Process:

**Interested individuals may download an application on the District's webpage at:
www.northwestmvcd.org**

**Please email application, resume, and supplemental questions to:
recruitment@northwestmvcd.org**

Northwest Mosquito and Vector Control District is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the District will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer. Candidates with a disability who may need accommodation during the selection process must notify the Human Resources Department at least 72 hours in advance of the test date.

Note: The provisions of this job bulletin do not constitute an expressed or implied contract. Any provisions contained within may be modified or revoked without notice.