Position: Entomologist

Nature of Work:

Under the general direction of the Manager, this position plans and provides professional entomological services for the Sutter-Yuba Mosquito and Vector Control District and performs related work as required. The entomologist also provides biological and other related scientific knowledge in program evaluation, guidance and development. Must be able to perform in a supervisory capacity on an as-needed basis.

Examples of Tasks:

- Plans and conducts studies and surveys of vector sources, population ecology and species distribution in the District; establishes a system of vector population measurement and supervises collection, identification, recording and evaluation of findings; performs biological and chemical laboratory work and makes evaluations thereof; prepares reports, including maps, graphs, and analyses for program
evaluation, development and planning

- Conducts field tests to determine efficiency of pesticides used under field conditions; determines and develops methods of pesticide application and prepares manuals or instructions for standard operating procedures; participates in the development of equipment for spray applications; investigates resistance of vectors to pesticides used and recommends changes as indicated; conducts stability tests on pesticide concentrates and computes pesticide dosage and application rates; calibrates power, hand and aircraft equipment used in spraying; evaluates effects of chemical operations on humans, livestock and plant life and takes appropriate action

- Collects and maintains data using electronic or other related devices. Maintains data as required. Enters data into California Department of Public Health’s (CDPH) Gateway and District’s data management system

- Evaluates effectiveness of vector control methods, conducts studies thereof, develops modifications of operational techniques, and provides scientific consultation to program operations

- Works with supervisory personnel in determining and surveying 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 program

- Trains and instructs field personnel in evaluating vector problems, making field identification of vector species and stages, determination of sources, and application of pesticides; prepares training manuals and entomological collections for training and operational purposes

- Works with and provides consultation in entomology and vector ecology to soil conservation districts, flood control districts, and other public and private organizations involved in activities that have a bearing on vector control; provides consultation to District management, personnel and the public

- Participates in a public relations and community education program, attends and addresses community meetings, and prepares educational material for distribution

- Keeps informed of current developments in entomology and mosquito and vector control; reads the professional literature and participates in professional associations; works with CDPH, Sutter and Yuba County Health Departments, university extension personnel and others in resolving scientific problems and obtaining consultations

- Drives automotive equipment, such as pickup trucks outfitted with powered and hand spray equipment; keeps equipment in working order, performing simple maintenance and repairs; may be assigned on an as-needed basis to assist in mechanical maintenance, repairs
and fabrication; may be assigned to assist in maintenance and repair of buildings and grounds

**KNOWLEDGE, ABILITIES AND SKILLS**

- Knowledge of the duties and responsibilities of the Sutter-Yuba Mosquito and Vector Control District
- Thorough knowledge of entomology, including natural history and ecology of vectors; wide knowledge of pesticides and their application and effects, and hazards to animal and plant life. Wide knowledge of biological, chemical and physical sciences and general knowledge of research techniques and investigative methods
- Ability to plan and conduct general surveys and specific studies, including the development and use of reporting and recordkeeping systems; ability to apply scientific principles in and outside of the lab
- Ability to speak and write effectively in English
- Ability to work cooperatively and effectively with other District employees and the public
- Ability to operate a vehicle while observing legal and defensive driving practices

**PHYSICAL DEMANDS AND ESSENTIAL DUTIES**

The position of Entomologist will require work which is varied in nature. The Entomologist:

- Must be sighted with the ability to demonstrate measurable depth perception.
- Must have a minimum of single-ear aided hearing.
- Must be able to speak and write effectively in English.
- Must be able to regularly operate a motor vehicle (both standard and automatic transmission).
- Must be able to regularly manipulate small parts and tools.
- Must be able to regularly bend at the knees and waist to perform repairs or make pesticide applications.
- Must be able to regularly traverse uneven ground such as fields, dirt banks, stream banks, rice fields, and shallow ponds.
- Must be able to occasionally reach overhead.
- Must be able to periodically perform repetitive motion associated with computer usage.
- Must be able to periodically assist in the lifting of objects weighing in excess of 75 pounds.
- Must be able to periodically lift objects weighing up to 50 pounds, such as chicken feed, and transport for distances of up to 15 feet.
- Must be able to periodically climb ladders or fences.
• Must be able to periodically work in high or low outdoor temperatures.

Periodically = Activity or condition exists less than 25% of the time
Occasionally = Activity or condition exists 25-50% of the time
Regularly = Activity or condition exists 50-75% of the time
Frequently = Activity or condition exists more than 75% of the time

EXPERIENCE, EDUCATION AND SPECIAL NOTES

Graduation from an accredited college or university with a major in entomology or a major in biological science, with appropriate field entomological experience. Some supervisory experience is desirable.

Current California Driver’s License required. Must be insurable by the District’s insurance carrier.

Must apply for and obtain certificates in the areas of Mosquito Control, Vertebrate Vector Control and Invertebrate Vector Control as required and issued by the California State Department of Public Health within one year of employment and maintain continuing education credits thereafter.

Upon employment, you will need to submit verification of your legal right to work in the United States.

WORKING CONDITIONS

Employee may be exposed to pesticides, chemicals, communicable diseases, rough terrain, vicious animals, poisonous plants and animals, and other health hazards, inclement weather conditions, or verbal confrontations from members of the public. The employee may be required to work non-standard work schedules including weekends and holidays.

Applications: Interested individuals must notify the District in writing, complete and return a District Application (available on line at www.sutter-yubamvcd.org/employment-opportunities) and include a current resume. The closing date for this position is February 14, 2020.

Examination Information: Applicants selected for interviews will be based on a qualifying evaluation of training, education and experience shown in the application information. Those candidates selected for interviews will receive a paneled oral interview to assess training, experience and ability to perform the duties of the position. Candidates selected as finalists will be subject to background checks as part of the examination process.
The provisions of this job announcement do not constitute an expressed or implied contract. Any provision contained in this announcement may be modified or revoked. Acceptance of an application does not mean qualification for an interview.

An Equal Opportunity Employer