

JOB DESCRIPTION

JOB TITLE: Laboratory Intern I

Established January 4, 2018

Definition: Under supervision, sets and retrieves mosquito surveillance traps, performs yard inspections for invasive *Aedes* mosquito species, appropriately conveys mosquito biology and vector-borne disease principles to homeowners and the public, identifies mosquitos to species, performs general maintenance on surveillance equipment, laboratory premises, and District grounds, may perform insectary tasks, and does related work and supportive services as required.

Tasks include but are not limited to: The Laboratory Intern I (Lab Intern I) carries out assignments at the pleasure of the Manager or his designee(s). Work is performed in accordance with established methods and techniques. This individual is supervised and receives specific assignments accompanied by oral or written instructions.

Lab Intern I will conduct yard inspections which includes: identification, sanitation and/or treatment of invasive mosquito breeding sites, collection of larval and/or adult mosquito specimens, effective communication with homeowner(s), and proper documentation of all tasks performed on inspected properties.

Lab Intern I may be assigned to aid in the trapping of adult mosquitoes, by organizing and assisting trap placement and retrieval (utilizing approved collection methods). Along with the cleaning, maintenance, and simple repairing of all traps.

Lab Intern I will be assigned to aid in the identification of mosquito species.

Lab Intern I may be assigned to assist in the insectary for handling of larval and pupal samples, and rearing of mosquitoes for identification and research purposes.

Cleans and maintains laboratory counters, shelves and extended areas of the Laboratory building when required.

Drives automotive equipment and may operate hand and power equipment; performs simple maintenance and repairs. May be assigned to assist in the maintenance and repair of buildings and grounds.

Lab Intern I performs physical labor such as carrying of trap equipment or clearing paths for placement of surveillance traps.

Lab Intern I may clean, feed and otherwise maintain fishery.

Lab Intern I may collect animal carcasses affected by vector borne disease pathogens.

Attends training sessions, read agency manuals and otherwise keeps informed of policies and procedures, keeps supervisors informed of progress and problems, and requests consultation as required.

Knowledge and Skills (to be gained from internship):

A basic knowledge of mosquito surveillance equipment, trapping mechanisms, vehicle operation, and safety standards.

Must be able to conduct an inspection and correctly locate and identify a wide variety of mosquito breeding habitats.

Must be able to make field identification of assigned vectors (adult and larval stages) and be familiar with their life cycles and basic biology.

Must be able to identify and count *Aedes spp.* eggs utilizing appropriate forms of magnification.

Must understand Material Safety Data Sheets and pesticide label information.

Must be able to work independently and responsibly organize and perform assigned activities in the field; possess the ability to make accurate observations and keep detailed records; ability to work cooperatively and effectively with other employees and the public; and to evaluate situations accurately and adopt an effective course of action.

Must be able to do basic preventive vehicle and power equipment maintenance and repairs.

Must exhibit a working knowledge of field and administrative functions and operations, including maintenance of records, reports and procedures.

Minimum Qualifications:

High school graduate or GED, eighteen years of age, **and pursuing a college degree in the biological sciences or related field, or recently received such a degree.** Completion of college-level entomology, zoology or related natural science course is preferable but not required.

Must be able to read and write capably and communicate with the general public. Ability to interpret a variety of instructions, whether furnished in writing, oral, diagram, or schedule form.

Must be able to perform moderate to heavy physical labor, frequently in temperatures above 85 degrees Fahrenheit.

Must be able to add, subtract, multiply, and divide in all units of measurement, using whole numbers, common fractions, and decimals. Ability to relate concepts such as rate, ratio, percentages, area, and volume to practical situations.

Must be able to work independently without direct supervision.

Must have a valid California driver's license with a good driving record and be insurable using the accepted guidelines of the insurance provider. DMV printout required.

Successful completion of pre-employment physical examination and drug screening.

Physical Requirements/Essential Functions

A small portion of the work is performed in an indoor laboratory setting. However, this position includes substantial outdoor work in varying temperatures, within and around various types of aquatic habitats, including polluted water sources. Hazards may include insect bites, chemicals, fumes, dust, hazardous materials, venomous insects, vectors and vector-borne diseases, rough terrain, inclement weather conditions, vicious animals, disgruntled homeowners and poisonous

plants and animals. The following list of abilities and physical demands are required to perform job duties.

- Ability to be vaccinated for various diseases to which employee may be exposed in the course of duties. The following vaccinations may be required within one year of employment: Rabies, Hepatitis A, Tetanus, Yellow Fever.
- Ability to periodically perform repetitive motion associated with computer usage
- Ability to periodically traverse rough, sloping or uneven ground such as fields, dirt banks, stream beds, and shallow ponds
- Ability to swim.
- Ability to tolerate insect bites, bee stings etc.

<u>Physical Activity:</u>	<u>Physical Demands:</u>		
	<u>Amount of Time:</u>		
	<u>1/3</u>	<u>1/3-2/3</u>	<u>over 2/3</u>
Stand		X	
Walk		X	
Sit		X	
Use hands to finger, feel or handle			X
Reach with hands and arms			X
Climb or balance			X
Stoop, kneel, crouch or crawl			X
Talk or hear			X
Taste or smell			X

<u>Lifting or force exertion requirements:</u>	<u>Amount of Time:</u>		
	<u>1/3</u>	<u>1/3-2/3</u>	<u>over 2/3</u>
Up to 10 pounds			X
Up to 25 pounds		X	
Up to 50 pounds		X	
Up to 100 pounds	X		
Over 100 pounds	X		

Vision Requirements:

Close vision (clear vision at 20 inches or less):

Identification of species and stage of larval development.

Distance vision (clear vision at 20 feet or more):

Environmental evaluation, control of vector source and safety.

Peripheral vision (ability to observe an area that can be seen up and down or to the left and right while eyes are fixed on a given point):

Environmental evaluation, control of vector source and safety.

Depth perception (three-dimensional vision, ability to judge distances and spatial relationships):
Environmental evaluation, control of vector source and safety.

Work Environment:

	<u>1/3</u>	<u>Amount of Time:</u>	
		<u>1/3-2/3</u>	<u>over 2/3</u>
Wet or humid conditions	X		
Works near moving mechanical parts		X	
Works in outdoor weather conditions			X
Fumes of airborne particles	X		
Toxic or caustic chemicals		X	
Extreme heat		X	

The position typically experiences a moderate noise level consistent with an office with computers and printers, or light traffic. Occasionally the noise level is consistent with an automotive repair shop.