



Mosquito Abatement Manager

Job Description

Department: Health
Position: Career Service
Grade: 728
Supervisory: Supervisor
Reports to: Executive Director – Health

Summary

Under general guidance and supervision of the Executive Director – Health, oversees, supervises, and coordinates all administrative and supervisory functions within the Utah County Mosquito Abatement Division. Ensures compliance with regulations and educates the public about mosquito-borne diseases and prevention. Incumbents in this position strive to minimize the risk of mosquito-borne illnesses while promoting environmentally sound and sustainable control practices.

Essential Functions

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

1. Supervise, plan, coordinate, evaluate the work of assigned personnel; oversee training and ensure work is completed accurately and efficiently; conduct staff meetings.
2. Participate in staffing decisions related to the hiring and retention of assigned personnel and the administration of disciplinary action in accordance with County policy and procedures.
3. Evaluate performance and conduct performance appraisals.
4. Operate and oversee the use of sprayers, trucks, drones, and all-terrain vehicles.
5. Utilize drone technology to enhance operational efficiency, improve precision in pesticide application, and support data-driven decision-making for more effective mosquito control.
6. Conduct surveys and evaluate potential mosquito breeding areas based on factors such as new and approved developments (commercial and residential), wetland areas, flood areas, and other environmental conditions.
7. Ensure the accurate and timely Geographic Information System (GIS) mapping of mosquito locations within the designated area.
8. Ensure compliance with and proper documentation of all drone-based abatement activities, including adherence to all local, state, and federal regulations.
9. Oversee, coordinate and purchase supplies, materials, and equipment; prepare the budget and annual reports for Mosquito Abatement division.

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Job Code: 1060
Job Title: Mosquito Abatement Manager
FLSA: Exempt
Effective Date: 1/2/2025
Public Safety: No

Worker's Compensation: County
Background Level: I
Safety Sensitive: Yes
DOT: No
ML: Manager

10. Prioritize treatment areas based on analysis of mosquito breeding sites; analyze aerial drone data to generate reports on mosquito populations, treatment effectiveness, and environmental conditions; collaborate with experts to refine control strategies based on these findings.
11. Promote and administer public awareness campaigns about mosquito-borne diseases and preventive measures; collaborate with local communities to foster understanding and acceptance of drone use in mosquito control efforts; proactively addressing any concerns or questions.
12. Build and maintain strong cooperative working relationships with wildlife and irrigation agencies, landowners, and other water users.
13. Plan and coordinate ecological studies and surveys of vector populations; provide expert consultation to the Health Department on vector and insect taxonomy and biology.
14. Oversee the utilization of qPCR (quantify Polymerase Chaise Reaction) and other laboratory equipment to analyze mosquito populations, detect pathogens, and assess the effectiveness of control measures, ensuring data-driven decision-making in mosquito management efforts.
15. Perform pesticide resistance and susceptibility studies, conduct biological laboratory work, and prepare related reports.
16. Train staff in safe handling, proper application, efficient and effective use of hazardous chemicals.
17. Analyze ArcView information and use other computer programs.
18. Stay informed of advancements in drone technology and mosquito control methods, integrating new tools and techniques to enhance the efficiency and effectiveness of the abatement program.
19. Collaborate with state and local agencies on relevant studies and participate in committee activities; serve as Chairman of various Committees.
20. Respond to public health emergencies as required by the department or division administration; carry provided communication device or other emergency equipment at all times, both during work and when unavailable by phone.
21. Utilize Artificial Intelligence (AI) tools as directed by Utah County Policy and with approval from Department Head.
22. During times of emergency or pandemic, job duties may be modified as needed and may be significantly different from primary duties.

Knowledge, Skills, and Abilities

- Knowledge of environmental health practices and procedures
- Knowledge of mosquito entomology and insecticide administration
- Knowledge of legislation and government programs relating to pesticide use
- Knowledge of GIS mapping technology
- Knowledge of proper and effective operation of hazardous material spray equipment
- Knowledge of qPCR and other laboratory techniques
- Skilled in supervisory techniques

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- Skilled in operating spray equipment and an all-terrain track vehicle
- Skilled in utilizing drone technology for pesticide control, inspection, and abatement activities
- Skilled in using scientific computer programs
- Skilled in preparing detailed reports and conducting surveys and studies
- Ability to effectively lead and train others
- Ability to communicate effectively verbally and in writing
- Ability to develop and maintain cooperative working relationships with the public and with those contacted during the course of working activities

Supervisory Responsibility

This position has direct supervisory responsibility and does serve as a coach and mentor for other positions in the department.

Work Environment

Work is sometimes performed in an office, library, computer room, or other environmentally controlled room but is regularly performed for sustained periods of time outdoors and occasionally in hot, cold or inclement weather. Work exposes incumbent to hazardous chemicals. Incorrect handling of these chemicals can have serious consequences, including fatalities, injuries to employees and the public, and significant legal liabilities for the County. Work requires the use of protective devices such as masks, goggles, and gloves. Work exposes incumbent to possible bodily injury from pesticide exposure.

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

While performing the duties of this job, the employee is required to use a high degree of manual dexterity to handle, feel, and operate objects, tools and controls, and reach with hands and arms. The employee is typically required to sit at a desk or table and is regularly required to walk, stand, or stoop. The employee regularly works for sustained periods of time maintaining concentrated attention to detail. The employee is occasionally required to lift or otherwise move objects weighing up to fifty (50) pounds. The employee regularly drives a motor vehicle and other motorized equipment.

Position Type / Expected Hours of Work

Incumbent must work eighty (80) hours each pay period to maintain full-time status. There may be availability to work out a flex schedule ahead of time that works for both the County and the employee. Occasional evening and weekend work may be required as job duties demand.

Travel

Travel is primarily local during the business day, although some out-of-area and overnight travel may be expected, up to five (5) percent.

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Required Education and Experience

- 1. Bachelor’s degree in Entomology or a related science field.
- 2. Five (5) years of management/leadership experience involving biological science or public health, of which two (2) years are in a supervisory capacity.

Additional Eligibility Qualifications

- 1. Applicants must possess a State of Utah Non-commercial Pesticide Applicators License in the area of Public Health.
- 2. Applicants must possess a valid driver’s license and obtain a valid State of Utah driver’s license within sixty (60) days of employment.
- 3. Selected applicants will be required to submit to a pre-employment drug screen and background check.

AAP/EEO Statement

It is the policy of Utah County Government to assure equal employment opportunity to its employees and applicants for employment without regard to race, color, religion, national origin, disability, age, sex, sexual orientation, genetic status or gender identity.

Other Duties

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties, or responsibilities that are required of the employee of this job. Duties, responsibilities, and activities may change at any time.

Utah County Government is a drug-free workplace.

Acknowledgement below to be completed after an offer has been extended and accepted.

This job description has been approved by the Office of Human Resource Management in consultation with the Department Head.

Signature below constitutes an understanding of the requirements, essential functions and duties of the position.

Candidate / Employee _____ Date _____

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