



Division Director - Mosquito Abatement

Job Description

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

Summary

Under general guidance of the Executive Director – Health, provides overall leadership, strategic direction, and operational oversight within the Mosquito Abatement Division and Utah County’s Integrated Mosquito Management (IMM) program. Responsible for directing all mosquito abatement activities, including surveillance, laboratory testing, aerial and ground-based control operations, regulatory compliance, public education, budgeting, technology adoption, and staff development.

Essential Functions

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

1. Supervise, plan, coordinate, and direct the work of assigned personnel; schedule workload and delegate assignments; oversee training and conduct staff meetings.
2. Make staffing decisions related to the hiring, retention, and training of assigned personnel; evaluate and conduct performance appraisals.
3. Identify, evaluate, and resolve personnel concerns; administer disciplinary actions in accordance with County policy and procedures.
4. Provide overall leadership and direction for all mosquito abatement operations, ensuring alignment with County, State, and Federal public health objectives and adherence to Integrated Mosquito Management (IMM) principles and best practices.
5. Establish division-wide policies, procedures, standards, and performance expectations for mosquito surveillance, control operations, laboratory testing, data management, and public engagement.
6. Provide direction and oversight for operational decisions while delegating lane-specific supervision and day-to-day coordination to ensure cohesive teamwork and consistent operational standards across all program areas.
7. Oversee and coordinate integrated mosquito control strategies, including larval and adult control, surveillance, resistance monitoring, and emergency response; maintain active

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FLSA: Exempt

Effective Date: 2/26/2026

Public Safety: No

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Background Level: I

Safety Sensitive: Yes

DOT: No

ML: Manager

involvement in daily operations, including field activities, surveillance planning, aerial and ground control operations, and complex problem resolution as needed.

8. Direct and coordinate operational response efforts during mosquito-borne disease outbreaks, environmental emergencies, or other public health incidents.
9. Serve as the division's primary authority for regulatory compliance, including Federal Aviation Administration (FAA), Environmental Protection Agency (EPA), Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Occupational Safety and Health Administration (OSHA), United States Department of Agriculture (USDA), State regulations and pesticide laws, and public health regulations; act as the primary point of contact for resolving compliance issues and coordinating corrective actions when necessary.
10. Maintain oversight of all pesticide use, chemical inventory, application records, and safety programs across aerial, field, and laboratory operations.
11. Ensure compliance with aviation regulations, laboratory standards, chain-of-custody requirements, and surveillance data reporting obligations in coordination with the Aerial, Field, and Lab Coordinators.
12. Develop, manage, and oversee the division's operating and capital budgets, including forecasting and long-term resource allocation; initiate and approve procurement requests for chemicals, equipment, laboratory supplies, vehicles, and aerial systems; oversee contracts, vendor relationships, and interagency agreements.
13. Coordinate long-range planning for staffing models, technology adoption, fleet needs, Unmanned Aircraft Systems (UAS), laboratory capacity, and program growth.
14. Serve as the division's primary spokesperson to the public, elected officials, media, municipalities, and partner agencies regarding mosquito control activities and public health risks; lead or support public education efforts, community outreach events, board presentations, and professional conferences.
15. Maintain collaborative relationships and represent the County on committees with other mosquito abatement districts, local governments, state and federal agencies, universities, and industry partners.
16. Build and maintain strong cooperative working relationships with wildlife and irrigation agencies, landowners, and other water users.
17. Oversee division-wide use of Geographic Information Systems (GIS), surveillance databases, service request systems, and other digital tools used for public engagement, service tracking, and operational decision-making; analyze and interpret surveillance data, laboratory results, and operational metrics to inform strategy, prioritization, and resource deployment.
18. Guide research initiatives and pilot projects; serve as the division's technical expert on vector biology, taxonomy, and disease ecology; oversee adoption of new technologies related to mosquito surveillance, aerial application, laboratory methods, data analytics, and integrated control strategies.

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19. Respond to public health emergencies as required by the department or division administration; maintain availability and timely response to work-related communications using assigned County communication devices and approved phone allowance-supported devices during work hours and emergency operations as required.
20. Utilize Artificial Intelligence (AI) tools as directed by Utah County Policy and with approval from Department Head.
21. 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

- Considerable knowledge of IMM principles
- Considerable knowledge of mosquito biology, vector-borne disease surveillance, and control strategies
- Knowledge of pesticide regulations, safety standards, and application practices
- Knowledge of laboratory operations, quality assurance principles, and testing workflows, including quantitative Polymerase Chain Reaction (qPCR)
- Knowledge of aerial and ground-based mosquito control technologies and operational requirements
- Knowledge of GIS, mapping software, surveillance databases, scientific analysis tools, and data-driven decision-making systems used to support operational planning and public health strategy
- Skilled in the operation, oversight, and safe use of mosquito control equipment, including sprayers, all-terrain vehicles (ATV's), and UAS drone technology used for pesticide application, inspection, and abatement activities
- Skilled in leadership, mentoring, and organizational management
- Skilled in conducting surveys and preparing detailed technical reports and studies
- Ability to balance strategic oversight with hands-on operational involvement
- Ability to manage complex programs, budgets, personnel, and regulatory requirements
- Ability to communicate effectively with staff, public officials, partner agencies, and the community
- Ability to make effective decisions in time-sensitive or high-pressure situations
- 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 serves as a coach and mentor for other positions in the department.

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Work Environment

Work is performed in an office, laboratory, or field environment. While some work is environmentally controlled, duties are regularly performed for sustained periods outdoors in hot, cold, or inclement weather. Work exposes incumbent to hazardous chemicals, aviation operations, and specialized equipment. Incorrect handling of 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 the incumbent to possible bodily injury from pesticide exposure. The incumbent is required to drive Utah County owned vehicles in the course of conducting County business and must abide by the Utah County Vehicle Policy.

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 forty (40) 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.

Required Education and Experience

1. Bachelor's degree in Public Health, Entomology, Biology, Environmental Science, or a closely related 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.
3. Equivalent combinations of education and experience may also be considered.

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Additional Eligibility Qualifications

1. Selected applicants must obtain the following certifications during the probationary period for new hires or trial period for promoted County employees and must maintain certifications during employment:
 - a. State of Utah Non-Commercial Pesticide Applicator’s License in the area of Public Health
 - b. FAA Remote Pilot Certificate
 - c. Other required pesticide and regulatory certifications as necessary for program operations
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.
4. Selected applicants shall be strongly encouraged to receive immunizations according to the Center for Disease Control and/or County Health Department Policy.

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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