



## South Walton County Mosquito Control District

774 N. County Hwy 393, Santa Rosa Beach, FL 32459

P 850.267.2112 F 850.267.2712

[southwaltonmosquitocontrol.org](http://southwaltonmosquitocontrol.org)

### UAV Coordinator

#### Job Description

##### Summary

UAV Coordinator oversees the ground and flight operations of an unmanned aircraft system. As part of ground operations, you will perform safety checks and troubleshoot mechanical equipment issues. Other duties involve making the right decisions at the right time during each flight, which includes taking into account the weather, route, fuel or technical requirements of the UAS and your objective of the mission; whether treating area and/or source locating. Must work within a team and be responsible for efficient data collection and mosquito treatments at sites around South Walton County using a variety of methods and equipment for aerial larviciding programs.

##### Duties and Performance Requirements

Conduct pre-flight planning, safety briefings, checklists, FAA airspace with airport tower coordination, and ensures overall mission-readiness.

Perform drone pre-flight inspections, evaluate the environment for tall structures, power poles, towers, other obstructions, various payload operations, camera settings, lighting conditions and weather.

Perform topographic surveys using a combination of mobile LiDAR, stationary scanning, drone photogrammetry and total station equipment.

Perform volumetric cut and fill calculations based on data from laser scanners, aerial LiDAR, photogrammetry, ground surveys and design documents.

Process and evaluate data for accuracy, adequacy, ensure deliverables meet expectations and professional standards.

Implement, monitor, track quality control checks and procedures for data gathered by techs.

Prepare complete reports related to collected field data, post flight missions, and maintenance logbooks.

Work closely with Mosquito Entomologist as well as Lead Mosquito Technician to schedule aerial missions post-flight UAS equipment tear-down, maintenance, and storage.

Inspects, maintains drone(s) and District vehicle(s) to verify all equipment is properly handled, cared for according to maintenance schedules, and requirements to confirm airworthiness of aircraft and support systems.

Responsible for the operation and maintenance of supporting equipment including truck/van with secure storage, on board inverters and generators for battery charging stations, and computer workstations.

Evaluate and suggest action plans for the mosquito control team for future treatments.

Ensure larviciding treatment intervals are met prior to mosquito control treatment activity.

Ensure chemical usage reports reconcile with inventory daily.



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Ensure compliance with all current larviciding insecticide labels and all SDSs.

Determine the appropriate use of products for different environmental situations.

Train new employees on various department systems and software.

Represent the District at conferences and public meetings as needed.

Responsible for completing daily activity report.

Responsible for wearing appropriate Personal Protective Equipment (PPE).

Communicate with the public in a professional and courteous manner and refer all inquiries outside of area of expertise back to the appropriate person at SWCMCD.

Follow all District policies and procedures and comply with all local, state, and federal regulations at all times.

Attend all assigned training(s).

Other duties and projects assigned.

### **Qualifications**

#### Required

Bachelor's Degree in a related discipline (geography, GIS, geology, geomatics, biology) from an accredited college/university preferred or

6 years' experience running a UAV program including policy writing, FAA coordination, purchasing, maintaining, inspecting UAV and related equipment or combination of both.

FAA CFR Part 107 UAS Pilot certificate

Minimum of 4 years job related experience operating a UAS.

Understand the FAA requirements for UAS operations in National Airspace.

Applied knowledge of surveying references such as coordinates systems, projections, datums, geoids, and state plane zones.

Knowledge of Geographic Information Systems (GIS) software such as ESRI is preferred.

Knowledge of GIS data formats and geospatial imagery metadata formats.

Aerial mosquito control and invasive plants experience preferred.

Experience with Frontier Precision FieldSeeker and Precision ULV Office preferred.

Experience with remote sensing.

Very strong technical capacity: ability to learn and master multiple software packages, pieces of hardware and different workflows.

Must have proficient computer skills in Microsoft Office and can learn and operate internal programs



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including databases.

Ability to effectively communicate in front of audiences.

Must be able to work a varied schedule including nights and weekends.

Must be able to read and understand chemical label instructions.

Must communicate effectively in English.

Must have a valid Florida driver's license and an insurable driving record

Must pass the Aerial within 2 months along with CORE and Public Health exams within six months of hire and be able to maintain certification by earning appropriate CEUs (continuing education units).

### **Working Environment**

Work is performed in an office setting and outdoors, exposing employee to inclement weather, noise, fumes, construction environments, slippery or uneven surfaces and traffic hazards. Employees are required to use appropriate safety equipment and follow standard safety practices. Occasional local, regional, and national travel may be required. Noise level is usually low but occasional exposure to loud and moderate noise levels when around trucks, equipment, pony motors and a variety of other motors and engines. Working with and around chemicals, which are stored, handled, applied/used, and disposed of according to exact labeling instructions, is required. Exposure to moving mechanical parts, mud, fuel, fumes, snakes, and insects may be required.

### **Physical Requirements**

Physical activity may be required including lifting, reaching for, pulling, and carrying up to fifty pounds and climbing in and out of vehicles and a variety of other equipment. Must be able to use hands and fingers to type. Excellent vision, both close and distance, is regularly required.

*This document does not create an employment contract, implied or otherwise.*

Job Category:	Non-Exempt	Salary Range:	\$26.00 - \$35.00
Position Type:	Full-Time	Origination Date:	4/1/2022
Reports to:	Operations Manager	Revision Date:	