

GIS Technician / UAS Pilot

Summary: Works within a team and is responsible for efficient data collection, mapping, and treatment of mosquito breeding sites within Lee County Florida. This position will use a variety of aerial platforms, image gathering hardware, and related software to produce high-resolution maps and data sets. The GIS Technician will work closely with the Lead UAS pilot and be capable of serving as Remote Pilot in Command and/or Visual Observer during data acquisition flights and other mosquito control operations as needed.

Essential Functions:

- Operate as the Visual Observer and/or Remote Pilot in Command (RPIC), responsible for flight planning, flight execution and risk management
- Conduct pre-flight planning, safety briefings, checklists, FAA airspace and 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 RGB (red, green, blue) check for thermal and LiDAR sensors
- 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 accuracy and sufficiency, and ensure deliverables meet expectations and professional standards
- Prepare and complete reports related to collected field data, post flight missions, and pilot and maintenance logbooks
- Work closely with the Lead UAS Pilot to schedule and execute aerial missions, Post-flight UAS equipment tear-down, maintenance and storage
- Work closely with UAS contracted staff both in person and remotely
- Represent the Districts at conferences and public meetings as needed
- Responsible for submitting all time off requests as soon as he/she knows they will be absent, late, or leaving early.
- Responsible for completing his/her time card on a daily basis
- 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 the District
- Follow all Districts Safety policies and procedures and comply with all local, state and federal regulations at all times
- Attend all assigned training
- Other duties and projects as assigned

Qualifications:

- Bachelor's Degree in a related discipline (geography, GIS, geology, geomatics, biology) from an accredited college or university preferred
- Understand the FAA requirements for UAS operations in the National Airspace
- An 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 Terra Solid, Spatial Explorer, QGIS and ESRI is preferred
- Knowledge of LiDAR, GIS data formats and geospatial imagery metadata formats
- 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 have the ability to learn and operate internal programs including databases
- Ability to effectively communicate in front of audiences
- Must be able to work a varied schedule including nights and weekends
- Ability to fly in helicopters
- Must be able to read and understand chemical label instructions in English
- Must communicate effectively in English
- Must have a valid Class E Florida drivers license and a clean driving record
- Must pass the Part 107 remote pilots certification, Aerial, CORE and Public Health exams within six months of hire and be able to maintain certification by earning appropriate CEUs (continuing education units)

Compensation:

The pay range for this non-exempt position starts at \$24.55 -\$28.64 depending on experience. Excellent benefits package includes Florida Retirement System, medical, dental, life/LTD/STD and generous paid time off package.

To Apply: Submit our employment application at the following

link: <https://www.governmentjobs.com/careers/lcmcd> no later than **Monday, November 29, 2021.**

Equal Opportunity Employer; Drug Free Workplace; Veterans Preference to those who qualify

Job Type: Full-time