

Floresville Electric Light & Power System

Commercial Drone Operator

Position Details

Eligible Applicants:	Internal, then Public
Job Status:	Full Time
Pay Status:	Non-Exempt
Reports To:	GIS Administrator
Typical Schedule:	8:00 a.m. – 4:30 p.m., Monday through Friday
Open Date:	12/22/2021 (Internal) / 01/01/22 (Outside Candidates)
Internal Close Date:	12/29/2021
Public Close Date:	Open until filled

Job Summary

Conducts unmanned aerial vehicle (UAV) flight missions to assess electric distribution infrastructure status; detects and reports issues related to aging infrastructure, pole decay, wire integrity, and vegetation encroachment to relevant internal collaborators; reviews and catalogs returned drone image data using Esri ArcMap, Drone2Map, and ArcGIS Pro softwares; plans automated flights in DJI GSPRO; conduct focused flight missions to support organizational engineering projects; participate in non-drone data collection as needed. Employee is expected to be able to draw from experience and expertise in DJI UAV operation to effectively assist in asset and infrastructure quality assessment and data collection, and to take initiative to broaden expertise in drone and GPS technology. Employee reports administratively to the GIS Administrator and receives functional guidance and assignments from the GIS Administrator and Director of Technology.

Essential Functions

Utilizing a fleet of three Mavic 2 Enterprise Dual airframes, this position is responsible for collecting both RGB and infrared (FLIR) images of all poles, lines, devices, substations, and encroaching objects (vegetation, other structures, etc.) on the system. This position reviews images daily and reports any issues related to pole age/decay, vegetation, and wire/device condition to relevant parties weekly. This position then processes and catalogs image data using Esri software, namely Drone2Map and ArcGIS Pro Image Analyst. Flight methods include manual piloting for narrow-angle images of the tops of poles and automated flights for wide

angle vegetation detection; use of DJI GSPRO app is required for flight automation. This position also supports projects of other departments by conducting focused flight missions as requested, and will engage on non-flight data collection projects as directed

Minimum Qualifications

- Current FAA Remote Pilot Certification or ability to readily obtain certificate required
- Knowledge of electric distribution system principles and infrastructure preferred
- Computer skills to include Microsoft Office suite (Outlook, Excel, Word), asset management software
- Experience with mapping software (e.g. Esri ArcGIS) preferred
- Demonstrated planning and organizational skills
- Demonstrated effective oral and written communication skills
- Demonstrated effective decision making and possesses intermediate math skills
- Ability to maintain composure and commitment to work during periods of heavy workload and willing to work extra hours as needed
- Ability to work without immediate supervision
- Valid Class C Texas driver's license with acceptable driving record

Physical Demands and Working Conditions

The employee will be required to work both in an office and outdoor setting. Physical requirements include, but are not limited to, standing, sitting, walking, lifting up to 50 pounds, fine dexterity, foot controls (driving), vision, hearing and talking. Working conditions may involve extended time in variable or adverse weather conditions as well as exposure to vehicle traffic, general construction hazards, heavy equipment and rough terrain. Post job offer physical, driving record, background check, and drug screen required.