Title:	Effective Date:	Grade:	Job Category:
Advanced Photogrammetry Technician	June 17, 2023	XIV	Technician
Prior Title:	Prior Effective Date:	Grade:	Page:
Initial Distribution			1 of 2

CHARACTERISTICS OF WORK

Under the direction of the photogrammetry supervisory staff, this position is responsible for acquiring aerial photography and LiDAR; and processing and compiling topographic maps and digital terrain models from aerial photography and LiDAR datasets.

EXAMPLES OF WORK

The following examples are intended only as illustrations of various types of work performed. No attempt is made to be exhaustive. Related, similar, or other logical duties are performed as assigned. The Department may require employees to perform functions beyond those contained in job descriptions. The Department may modify job descriptions based on Department needs. The Arkansas Department of Transportation is an "at will" employer.

- Coordinate projects in the Photogrammetry/LiDAR Mapping Unit during the absence of the Photogrammetric Specialist.
- Assist in the training, motivation, and guidance of personnel to maintain the most highly skilled and competent staff possible.
- Operate Department GNSS equipment for collecting LiDAR data and ground control information.
- Review the work of subordinate personnel to ensure proper detail, precision, and quality of maps and terrain models are produced.
- Answer technical questions regarding problems, performance, and procedures for personnel within the unit/section.
- Review Photogrammetry/LiDAR mapping submitted from consultant surveyors.

ADDITIONAL EXAMPLES OF WORK APPLICABLE TO MAPPING UNIT:

- Prepare mapping projects for photogrammetric and/or LiDAR compilation.
- Operate current generation of photogrammetric and/or LiDAR workstations.
- Check aerial photography and/or LiDAR to determine adherence to specifications.

ADDITIONAL EXAMPLES OF WORK APPLICABLE TO AERIAL PHOTO ACQUISITION UNIT:

- Schedule and direct, with assistance, the airplane's flights for photo acquisition.
- Assist with supervising, training, motivating and guide subordinates in processing and distributing aerial photography.
- Assist with supervising, training, motivating and guide subordinates in the collection of LiDAR data sets.
- Operate photographic equipment and order photographic material.
- Perform digital image processing.
- Maintain the Department's aerial photo archive and sales to the public.

MINIMUM REQUIREMENTS

Education and experience: The educational equivalent to a bachelor's degree from an accredited college or university in surveying or related field and experience in topographic and terrain mapping from remote sensing data; OR the educational equivalent to a diploma from an accredited high school and four years of experience in topographic and terrain mapping from remote sensing data.

Knowledge, skills and abilities: Knowledge of survey policies and procedures as outlined in the Department's Surveys Manual as related to photogrammetry and remote sensing. This manual is available for download from the internet at www.ardot.gov/divisions/surveys/manuals. Ability to communicate effectively both orally and in writing. Ability to organize, prioritize and multi-task.

Physical requirements: Occasional overnight travel to assist with LiDAR data collection.

Licenses, registrations and certifications: Valid driver's license.

ADDITIONAL MINIMUM REQUIREMENTS APPLICABLE TO MAPPING UNIT:
Advanced knowledge of aerial photo and LiDAR interpretation, cartography, national map accuracy standards, and remote sensing principles. Proficient with the current Department software for the generation and analysis of topography and terrain data from controlled digital stereo aerial images and LiDAR data sets. Ability to see stereoscopically is preferred.

MINIMUM REQUIREMENTS APPLICABLE TO ACQUISITION UNIT:
The educational equivalent to a bachelor's degree from an accredited college or university in surveying or related field or graduation from a photographic technical school and two years of experience as an aerial photographer OR the educational equivalent to a diploma from an accredited high school and four years of directly related experience. Experience as an Aerial Photographer or remote pilot. Working knowledge of MicroStation, ArcGIS, and Photoshop and/or software programs currently used in Photogrammetry to develop digital images for plotting and distribution. Proficient in the use of the current generation of the Department's software for LiDAR processing and registration. Valid driver's license. Applicable to Remote Sensing Acquisition Unit; certified as a remote pilot under FAA Part 107 guidelines.

APPLICABLE TO ACQUISITION UNIT ONLY:
A criminal background check will be required to determine suitability of employment, and failure to meet these standards may cause the applicant to be rejected or terminated from that position.

("Accredited" means the educational institution or program is accredited by an accrediting organization recognized either by the United States Department of Education or by the Council for Higher Education Accreditation.)