

Title: Photogrammetry Technician	Effective Date: August 24, 2022	Grade: XII	Job Category: Technician
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CHARACTERISTICS OF WORK

Under the direction of the photogrammetry supervisory staff, this position is responsible for 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.
- 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 PHOTOGRAMMETRY MAPPING UNIT:

- Perform analytical aerial triangulation for the extension of mapping control.
- Prepare mapping projects for photogrammetric compilation.
- Operate current generation of photogrammetric workstations.
- Check aerial photography to determine adherence to specifications.

ADDITIONAL EXAMPLES OF WORK APPLICABLE TO LiDAR MAPPING UNIT:

- Perform LiDAR point cloud registration from data acquired by the Department’s laser scanner.
- Prepare mapping projects for LiDAR feature extraction.
- Operate current generation of LiDAR workstations.
- Check LiDAR data 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.
- Supervise and direct subordinates in processing and distributing aerial photography.
- Operate photographic equipment and order photographic material.
- Perform digital image processing.
- Maintain the Department’s aerial photo archive and sales to the public.

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MINIMUM REQUIREMENTS APPLICABLE TO PHOTOGRAMMETRY AND LiDAR MAPPING UNITS:

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 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.

ADDITIONAL MINIMUM REQUIREMENTS APPLICABLE TO PHOTOGRAMMETRY MAPPING UNIT:

Working knowledge of aerial photo interpretation, cartography, national map accuracy standards, and remote sensing principles. Proficient with the current generation and analysis of topography and terrain data from controlled digital stereo aerial images. Ability to see stereoscopically.

ADDITIONAL MINIMUM REQUIREMENTS APPLICABLE TO LiDAR MAPPING UNIT:

Working knowledge of LiDAR data interpretation, cartography, national map accuracy standards, and remote sensing principles. Proficient in the use of the current generation of the Department’s workstations and software for LiDAR point cloud registration. Proficient with the generation and analysis of topography and terrain data from registered LiDAR point clouds.

MINIMUM REQUIREMENTS APPLICABLE TO AERIAL PHOTO ACQUISITION UNIT:

Graduation from a photographic technical school and one year of experience as an aerial photographer OR the educational equivalent to a diploma from an accredited high school and three years of experience as an Aerial Photographer. Working knowledge of Microstation, ArcGIS, and Photoshop and/or software programs currently used in Photogrammetry to develop digital images for plotting and distribution. Valid driver’s license.

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.)