

NATURAL RESOURCES GEODETIC SURVEY MANAGER

DESCRIPTION: Under limited supervision is responsible for oversight and scheduling of the survey and photogrammetry sections of the agency; performs related work as required.

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do the listed examples include all the duties that may be assigned.)

Handles all supervisory functions within the survey and photogrammetry sections of agency.

Coordinates projects with different organizations for which the agency performs work.

Prepares cost estimates as needed.

Mark all aerial photography that will be used in any mapping project; survey crews use the marks to establish control for stereo mapping.

Produce flight line maps and draw up aerial photography contracts for projects which will be flown.

Process the Global Positioning System (GPS) data collected from field collections.

Process all cross-section data obtained by the survey crews.

Compile digital survey data collected from dam structures and produce topographic mapping products such as Digital Elevation Models (DEM).

Adjust and balance field traverse.

Research new survey instruments and software.

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES REQUIRED: (These may be acquired on the job and are needed to perform the work assigned.)

Knowledge of: geodetic, preliminary and right-of-way surveying techniques, policies and procedures; computer program applications; GPS operations and procedures in the field office.

Ability to: operate and train others on the use of survey equipment including conventional and electronic instruments and computers (hardware and software); download process and generate coordinates from GPS data; supervise others in the absence of the crew leader.

Skill in: operating high precision survey instruments in a consistent, efficient manner; communicating clear and precise instructions to others; using computer hardware and software.

V56753 – NATURAL RESOURCE GEODETIC SURVEY MANAGER (continued)

ENTRY KNOWLEDGE, SKILLS AND ABILITIES REQUIRED: (Applicants will be screened for possession of these through written, oral, performance, and/or other evaluations.)

Knowledge of: basic surveying techniques; NEBRASKA TRAVERSE program; State Plane Coordinate System; coordinate trigonometry and geometry principles.

Ability to: operate survey instruments including GPS receivers, electronic data collectors and hand-held calculators; research information for horizontal and vertical controls; read and interpret quadrangle maps.

Skill in: drafting techniques; accurately measuring and computing angles, distances and elevations; communicating effectively with others.

JOB PREPARATION GUIDELINES: (Entry knowledge, skills and/or abilities may be acquired through, BUT ARE NOT LIMITED TO, the following coursework/training and/or experience.)

Any combination of training and/or experience that will enable the incumbent to possess the required knowledge, abilities and skills. A general qualification guideline for positions in this class is high school education or equivalent AND education or experience in civil surveying.

SPECIAL NOTE

Valid driver's license required. Field work may involve some lifting, walking and long hours.

Some overnight travel may be required.