

Missouri Department of Transportation

Code: R02012

Title: Intermediate Survey Technician

Exemption Status: Non-Exempt

Grade: 4

Job Description

Effective Date 10-01-2022

**Replaces
(Effective Date)** 07-01-2022

General Summary The intermediate survey technician assists in field surveys by conducting measurements and assisting in the operation of surveying instruments. Responsibilities are performed under direct supervision.

**Minimum/Required
Qualifications** High School Diploma or GED/HiSET.
Two years of route surveying experience.
Successful completion of a work simulation examination and a medical-physical examination.

**Supervisory
Responsibilities** None

Location District Offices - Design

**Special Working
Conditions/Job
Characteristics** Job requires moderate physical activity.
Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.
Job may require operation of vehicles to plow snow and spread ice control materials.

Examples of Work

- (1) Operates surveying equipment in accordance with department methods and processes.
- (2) Participates in measuring operations collecting planimetric features (mapping), topography (terrain), horizontal and vertical control, and boundary evidence in electronic field book.
- (3) Directs measurements for stake-out, selects and sets locations for intermediate control points for engineering surveys, sets locations of alignment, structures, right-of-way breaks, and easement corners.

- (4) Transfers electronic data collector files, raw observation files, and control files to computer or computer aided drafting (CAD) utilizing transfer software; may assist in the generating of map models, terrain models, and editing of automated files; may archive survey data upon review.
- (5) Researches notes and automated records for availability of National Geodetic Survey's (NGS) horizontal and vertical control monuments, property boundary markers, public land corner (USPLSS), and Geographic Reference System monumentation.
- (6) May perform mathematical computations related to field layout, note reduction, horizontal closure checks, vertical network adjustments, and point averaging.
- (7) Sets out safety devices, work zone signs, traffic cones, and warning flags when necessary.
- (8) Maintains survey equipment, safety devices, supplies and vehicles, computes and records mileage for survey vehicles.
- (9) Performs other responsibilities as required or assigned.

The Missouri Department of Transportation promotes an equal opportunity workplace that includes reasonable accommodation of otherwise disabled applicants and employees. Please see your manager should you have any questions about this policy or these job duties.