

Title: Automated Surveys System Engineer	Effective Date: September 17, 2008	Grade: XVIII	Job Category: Professional
Prior Title: Automated Surveys System Engineer	Prior Effective Date: August 24, 2007	Grade: XVIII	Page: 1 of 1

CHARACTERISTICS OF WORK

Under limited supervision, this position is responsible for assisting in the coordination of and training in the use of the Automated Survey Data Management System (SDMS) for the Department. This position will also assist in designing programs according to specifications including coding, compiling, and testing that will be used in conjunction with the Department's SDMS and CADD systems. This position will also supervise the activities of the Surveys Office Technical staff.

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 State Highway and Transportation Department is an "at will" employer.

- Coordinate, implement, and provide training in the Automated Survey Data Management System (SDMS).
- Coordinate the formation and flow of automated survey data between various Divisions within the Department.
- Answer technical questions regarding problems, performance and procedures and support personnel in the use of SDMS.
- Provide specific guidelines for the uses and/or operation of SDMS.
- Design or modify programs as required for SDMS.
- Analyze, code, test and document SDMS/CADD interface programs.
- Formulate detailed design of individual applicable programs.
- Code logic for complicated functions of SDMS programs.
- Analyze information in terms of existing and needed hardware and software.
- Supervise the activities of the Surveys Office Technical Staff.

MINIMUM REQUIREMENTS

Possession of a current *Arkansas* license to practice professional engineering. Course work in surveying technology and photogrammetry preferred. Extensive background in surveying, mapping, automated data collection, and CADD. Professional engineering experience in highway location and design desirable. Knowledge of Departmental policies and procedures. Ability to teach SDMS individually or in a classroom setting. Knowledge of structural programming methods, capabilities, limitations, and internal processing methods for hardware and software used in SDMS.