

# MANAGEMENT INFORMATION SPECIALIST (GEOGRAPHIC INFORMATION SYSTEM APPLICATIONS SPECIALIST)

## DEFINITION

Under direction, as part of the Land Information Systems Project Team, analyzes system requirements and codes computer programs for geographic information system (GIS) applications; assists end users and technicians with GIS methods; prepares GIS macros; collects and processes digital data for GIS products; performs related work as required.

## EXAMPLES OF DUTIES

Performs geographic analysis on existing digital data sets. Codes macros and computer programs to perform geographic analysis. Analyzes source documents and develops methods to create and maintain digital data sets. Collects and processes digital data for GIS products. Provides training in GIS methods and procedures for end users and technicians.

## EMPLOYMENT STANDARDS

Education and Experience: Any combination of training and experience equivalent to a bachelor's degree in geography, planning, cartography or related field and experience with Environmental Systems Research Institute's (ESRI) ARC/INFO, preferably using UNIX workstations.

Knowledges and Abilities: Knowledge of coordinate systems principles and techniques of coordinate transformations and projections; knowledge of digital data input methods including digitizing, scanning, and coordinate geometry; familiarity with topological data structures and relational database management systems; familiarity with computer programming languages; ability to communicate effectively, orally and in writing, with representatives of a variety of user departments; ability to work effectively with others.

Special Requirements: Must be able to operate ESRI's ARC/INFO GIS software and write macros in ARC Macro Language (AML). Prefer ability to operate ARCVIEW 2.X and write programs in Avenue.