



# COMMONWEALTH OF KENTUCKY JOB CLASS SPECIFICATION

## GEOPROCESSING SPECIALIST III

Job Number: 20001875

Job Code: 97820V000101

Job Group: 9700 - INFORMATION MANAGEMENT SUPPORT

Job Established: 05/16/1991

Job Revised: 02/24/2006

|           |   |                               |
|-----------|---|-------------------------------|
| Grade: 15 | Salary (MIN - MID):                             | <b>Special Entrance Rate:</b> |
|           | \$19,882-\$26,339 - Hourly                      | NONE                          |
|           | \$3,230.84-\$4,280.10 - 37.5 Hr. Monthly Salary | NONE                          |
|           | \$3,446.22-\$4,565.44 - 40 Hr. Monthly Salary   | NONE                          |

### **PROBATIONARY PERIOD:**

This job has an initial and promotional probationary period of 6 months. For additional information refer to: <http://www.lrc.ky.gov/kar/101/001/325.htm>.

### **CHARACTERISTICS OF THE JOB:** *Characteristics of a job are general statements indicating the level of responsibility and discretion of positions in that job classification. These are not intended to be an exhaustive list.*

Under general supervision, serves as a consultant to agency management of the establishment and implementation of geoprocessing systems. Reviews and designs complex geographic information system applications. Analyzes user database requests for possible integration of GIS capabilities; and performs other duties as required.

### **MINIMUM REQUIREMENTS:**

#### **EDUCATION:**

Graduate of a college or university with a bachelor's degree. Applicant must have successfully completed six semester hours in computer science, data processing, or geographic information system courses.

#### **EXPERIENCE:**

Must have three years experience in geoprocessing.

#### **Substitute EDUCATION for EXPERIENCE:**

A master's of science degree will substitute for one year of the required experience.

#### **Substitute EXPERIENCE for EDUCATION:**

One year experience in geoprocessing will substitute for the six semester hour requirement. Experience in manual mapping techniques, photogrammetry or land surveying will substitute for the bachelor's degree on the basis of 18 months experience for one year of education.

#### **SPECIAL REQUIREMENTS (AGE, LICENSURE, REGULATION, ETC.):**

NONE

**EXAMPLES OF DUTIES OR RESPONSIBILITIES OF THE JOB CLASSIFICATION:** *Examples of duties or responsibilities are not to be construed as describing what the duties or responsibilities of any position shall be and are not to be construed as limiting the appointing authority's ability to assign, or otherwise alter the duties and responsibilities of a position. This is not intended to be an exhaustive list.*

Designs and develops software to meet end users' GIS application needs. Act as project leader in the development of a comprehensive GIS application. Provides user support and training for geographic database and map generation systems. Provides guidance for the compilation, conversion, modification, and enhancement of computer maps. Designs spatial database libraries for the efficient storage and modification of spatial data. Coordinate the implementation of spatial data libraries. Act as librarian, responsible for maintaining the integrity and accuracy of spatial databases. Act as consultant to develop agency standards, policies and procedures in the development of a geographic information system. Analyzes existing manual mapping systems to design systems to eliminate redundancy. Produces complex computer models using digital spatial and tabular information. Develops specifications for use in conversion of hardcopy map products to digital format. Designs testing programs to perform quality analysis/quality control on digitized map products. Designs GIS systems and coordinates the creation, testing and installation of programs to accomplish geographic analyses. Provides guidance in the use of aerial photography, remotely sensed data (LANDSAT, SPOT IMAGE), use of Global Positioning System (GPS) data, or scanned imagery in the course of system development. Develops intricate fourth generation level (macro) programs. Provides detailed specifications to programmers for high level programs as required for application development. Provides user support for geographic database applications. Prepares and maintains technical documentation. Analyzes existing data systems for possible integration using relational database model of GIS.

**UNIQUE PHYSICAL REQUIREMENTS:**

**TYPICAL WORKING CONDITIONS:** *Incumbents in the job will typically perform their job duties under these conditions.*

Incumbents working in this job title perform duties in an office setting.

**ADDITIONAL REQUIREMENTS:**

Upon appointment, employees in this class may be required to maintain a valid driver's license and required to drive a licensed vehicle. This status may be necessary for the length of time in this class. If this is necessary it will be listed in the specific position description for that position. Applicants and employees in this job title may be required to submit to a drug screening test and background check. Applicants and employees in positions which perform job duties that may require contact with offenders in the custody or supervision of the Department of Corrections or with youth in the care, custody, or supervision of the Department of Juvenile Justice must meet qualifications pursuant to the federal Prison Rape Elimination Act, 28 C.F.R.115.17 and 115.317.

*THE COMMONWEALTH OF KENTUCKY DOES NOT DISCRIMINATE ON THE BASIS OF RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, SEXUAL ORIENTATION OR GENDER IDENTITY, ANCESTRY, AGE, DISABILITY, POLITICAL AFFILIATION, GENETIC INFORMATION OR VETERAN STATUS IN ACCORDANCE WITH STATE AND FEDERAL LAWS.*