

Champaign County Job Description

Job Title: Geographic Information System (GIS) Programmer

Department: GIS Consortium

Reports to: GIS Director

FLSA Status: Exempt

Grade/Range: J*

Prepared Date: March, 2013

SUMMARY Responsible for the design, development and deployment of applications, including spatially enabled web-based mapping applications and dynamically driven web pages.

ESSENTIAL DUTIES and RESPONSIBILITIES include the following. Other duties may be assigned.

Develops and deploys multi-jurisdictional spatially enabled web-based mapping applications.

Develops database driven web pages/web sites.

Designs and develops SQL-Server relational databases.

Serves as project manager, directs project staff, and assists with data coordination and integrity efforts.

Assists staff with design and development of automated quality control processes.

Assists with the design, development and implementation of support system architecture (hardware, software, application, database and communications).

SUPERVISORY RESPONSIBILITIES Provides direction to project staff. This position has very limited supervisory responsibilities.

QUALIFICATIONS to perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill and/or ability required.

LANGUAGE SKILLS Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations. Ability to write reports, business correspondence, and procedure manuals. Ability to effectively present information and respond to questions from groups of managers, clients, customers, and the general public.

MATHEMATICAL SKILLS Ability to add, subtract, multiply, and divide in all units of measure, using whole numbers, common fractions, and decimals. Ability to compute rate, ratio, and percent and to draw and interpret bar graphs.

REASONING ABILITY Ability to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists. Ability to interpret a variety of instructions furnished in written, oral, diagram, or schedule form.

COMPUTER SKILLS to perform this job successfully, an individual should have the ability to automate tasks, analyze GIS layers, and create quality control processes with Python (Racy, SMTP, and other relevant libraries). Should have experience with advanced GIS spatial analysis tools.

CERTIFICATES, LICENSES, REGISTRATIONS as required.

EDUCATION and/or EXPERIENCE Bachelor's degree in GIS, Geography, Computer Science, Engineering and/or Planning or related field. Three to five years of experience with the development and design of applications and dynamically driven web pages utilizing the following preferred technologies: Microsoft ASP.NET Framework using C#, T-SQL, ARCGIS JavaScript API, Dojo Toolkit, HTML, XML, and CSS. Hands-on experience with GIS at a technical level preferred.

PHYSICAL DEMANDS The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. While performing the duties of this job, the employee is frequently required to sit; use hands to finger, handle, or feel; and talk or hear. The employee is occasionally required to stand; walk; and reach with hands and arms. The employee must occasionally lift and/or move up to 10 pounds. Specific vision abilities required by this job include close vision and ability to distinguish between colors.

WORK ENVIRONMENT The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Normal office conditions. The noise level in the work environment is usually quiet.