

LANCASTER COUNTY GEOSPATIAL DEVELOPER

NATURE OF WORK

This is responsible technical work to architect, implement, and maintain application software systems within the enterprise Geographic Information Systems (GIS) division of Lancaster County.

Work involves the development, maintenance, modification, and implementation of GIS data processing systems and web-based applications for the operation and support of the enterprise. Work also involves making recommendations regarding industry solutions to improve enterprise GIS workflows, capacity planning, evaluation of new systems, and programming. General supervision is received from the Geospatial Administrator with work being reviewed in the form of results achieved. Supervision may be exercised over other GIS technical personnel.

EXAMPLES OF WORK PERFORMED

Coordinate, maintain and secure Land Records data and related geospatial data; coordinate and train technical staff in the operation and maintenance of enterprise-level GIS data processes utilizing Esri's ArcGIS technology platform.

Assist with geodatabase administration, design and implementation to support various County geospatial data initiatives; design data models and develop strategies and procedures for integrating GIS with existing databases and non-spatial data.

Program, maintain, enhance, integrate and support GIS business systems and programs.

Provide application management including design, development, implementation and maintenance, documentation and use of code repositories, creation and maintenance of procedural documentation, training for user department staff and user support as needed.

Provide project management for data and application development projects including geodatabase design, workflow development, metadata development and data automation.

Investigate and determine the cause of problems with GIS computer software applications; recommend and test computer programs for enterprise GIS use to gain efficiency.

Provide GIS assistance to the Emergency Operations Center (EOC) during an activation event.

Create, edit, and maintain data Extract Transform and Load (ETL) processes.

Perform related work as required.

DESIRABLE KNOWLEDGE, ABILITIES AND SKILLS

Thorough knowledge in the development, implementation, modification and maintenance of GPS and GIS data processing systems.

Thorough knowledge of Esri's ArcGIS technology platform and web-based development activities.

Considerable knowledge of system analysis, various programming languages, APIs, web development and geoprocessing tools.

Considerable knowledge of SQL Server data pipelines to support ETL processes.

Knowledge of mapping techniques and procedures related to the creation, maintenance, and analysis of enterprise geospatial data.

Knowledge of project management principles and related methodologies to ensure adherence to budget, schedule and scope of project.

Ability to interpret rules, regulations and policies and to make decisions in accordance with established precedent.

Ability to exhibit independent judgement and initiative in analyzing applications and to make sound recommendations and modifications.

Ability to establish and maintain effective working relationships with property owners, elected officials, department heads, team members, and the public.

Ability to communicate effectively both orally and in writing.

Ability to manage multiple responsibilities concurrently,

DESIRABLE QUALIFICATION

Possession of a Geographic Information Systems Professional (GISP) certification.

MINIMUM QUALIFICATIONS

Graduation from an accredited four-year college or university with major coursework in GIS, computer science, engineering, planning, geography, or related field including four years of experience working with computer software, hardware and operations of systems relating to Geographic Information Systems; or any equivalent combination of training and experience that provides the desirable knowledge, abilities and skills.