



GIS Cadastral Analyst – Lead

Job Description

Department: Recorder
Position: Career Service
Grade: 727
Supervisory: Lead
Reports to: GIS Cadastral Supervisor

Summary

Under general guidance and supervision of the GIS Cadastral Supervisor, performs technical and analytical work in creating, maintaining, and updating land ownership records, the abstract of said records, and the parcel layer of Utah County's Geographic Information Systems (GIS) database. Incumbents in this classification perform the most complex duties within the assigned function. This role provides assistance to GIS Cadastral Technicians and Analysts and is responsible for leading and training others in a broad array of mapping and recording work.

Essential Functions

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

1. Ensure accuracy of records and maps; identify the intent of documents, subject properties, and current ownership through careful analysis of legal descriptions, property searches and abstracts of county records, including advanced calculations, basis of bearing and closing traverses.
2. Ensure compliance with recording standards and Utah State Code; verify document format and content.
3. Create, maintain, and revise official parcel maps and indexes; ensure accurate representation of parcel ownership and addresses for taxing purposes; utilize coordinate geometry and other methods, as needed.
4. Review subdivision, condominium, and other development plats for precision, format, property title, adherence to recording standards, and compliance with state code.
5. Analyze potential boundary issues using GIS tools and functions; conduct title history and legal description research, as needed.
6. Maintain existing GIS database layers using the State Plane Coordinate System; create, assign, and identify parcel numbers and tax districts according to jurisdictional boundaries.
7. Apply coordinate geometry principles and perform advanced calculations using GIS tools to accurately enter data in the County GIS database layers.

For Office Use Only

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Job Title: GIS Cadastral Analyst - Lead
FLSA: Non-Exempt
Effective Date: 6/6/2026
Public Safety: No

Worker's Compensation: Clerical
Background Level: I
Safety Sensitive: No
DOT: No
ML: Individual Contributor

8. Construct new boundaries in GIS database layers; create new code files/database records with all necessary information; verify accuracy of data, as needed.
9. Create tax descriptions for parcel splits, remainder parcels, and tax delinquent properties; utilize coordinate geometry and survey principles, as needed.
10. Review recorded data to improve the accuracy, integrity, and timeliness of the GIS database layers supporting the tax assessment system used by the County.
11. Function as liaison between the department and cities, surveyors, attorneys, engineers, title companies, industry professionals, and the general public; coordinate recording of development plats and documents; provide detailed, technical, and informational assistance to resolve issues with plats, documents, and historical records.
12. Function as a lead worker; train division personnel in technical mapping skills and respond to questions as to the validity of documents; follow up appropriately with supervisor, identifying areas for improvement.
13. Observe Cadastral Mapper workloads; evaluate processes and recommend improvements.
14. Perform technical duties of the Recorder's Office pursuant to the policies and procedures of Utah County to endure the validity of the May Tax Sale; analyze, evaluate, and review properties, as needed.
15. Assist with training GIS Cadastral Technicians and Analysts, as needed.
16. Perform special functions, as assigned.

Knowledge, Skills, and Abilities

- Considerable knowledge of state laws governing recording, indexing, and mapping of legal documents
- Knowledge of legal land description principles
- Knowledge of laws and regulations regarding property boundaries
- Knowledge of geospatial database management and applications to cadastral mapping
- Knowledge of abstracting techniques
- Knowledge of the public land survey system and the state plane coordinate system
- Knowledge of advanced math principles, including geometric concepts
- Skilled in investigating and determining property ownership and legal boundaries
- Skilled in reading and interpreting related technical and legal documents
- Skilled in analyzing subdivision, condominium, annexation, and other development plats
- Ability to communicate technical and complex information effectively
- Ability to maintain cooperative relationships with those contacted during the course of work activities
- Ability to defuse and deescalate challenging, demanding, or hostile situations
- Ability to effectively navigate a dynamic workload with changing deadlines and priorities
- Ability to exercise independent judgment to carry out assignments and operations
- Ability to train and lead others

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Supervisory Responsibility

This position has no direct supervisory responsibility but does serve as a lead to some staff and as a coach and mentor for other positions in the department.

Work Environment

This job operates in a professional office environment and requires incumbent to perform duties in the office. This position requires frequent contact with the public, including face-to face interaction and coordination of work with other employees, clients, or customers, and/or immediate access to documents or other information located only in the workplace. Incumbent may be exposed to high-stress situations, or uncomfortable, confrontational, and emotionally charged circumstances. This role routinely uses standard office equipment such as a laptop, desktop, smartphone, photocopiers, shredders, and filing cabinets. The noise level in the work environment is usually moderate.

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 required to use manual dexterity to handle, feel, and operate objects, tools and controls, and reach with hands and arms. This employee is frequently required to stand, talk, and hear. Specific vision abilities by this job include close vision and ability to adjust focus. The employee is required to type, file, and lift or move supplies up to twenty (20) pounds. The employee occasionally drives a motor vehicle.

Position Type/ Expected Hours of Work

Incumbent must work forty (40) hours each week to maintain full-time status. Typical work hours are 8:00 am to 5:00 pm Monday through Friday. Occasional evening and weekend work may be required as job duties demand.

Travel

Travel is primarily local during the business day, although some out-of-area and overnight travel may be expected, up to five (5) percent.

Required Education and Experience

1. Bachelor's degree in GIS, geography, civil engineering, or a related field.
2. Four (4) years of work experience using ArcMap software, including two (2) years directly related to Utah County recording and abstracting functions.
3. Equivalent combinations of education and experience may also be considered.

Preferred Education and Experience

1. Preference may be given to applicants with lead or supervisory experience.

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Additional Eligibility Qualifications

1. Selected applicants must possess or obtain a Cadastral Mapping Certificate from the Utah Association of County Recorders during the first year in the position. The time requirement may be adjusted based on the Recorders Association schedule of offered classes.
2. Applicants must have successfully passed the Utah County Advanced Cadastral Mapping test within the probationary period for new hires or trial period for current County employees.
3. Applicants must possess a valid driver’s license and obtain a valid State of Utah driver’s license within sixty (60) days of employment.
4. Selected applicants will be required to submit to a preemployment drug screen and background check.

AAP/EEO Statement

It is the policy of Utah County Government to assure equal employment opportunity to its employees and applicants for employment without regard to race, color, religion, national origin, disability, age, sex, sexual orientation, genetic status or gender identity.

Other Duties

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties, or responsibilities that are required of the employee of this job. Duties, responsibilities, and activities may change at any time.

Utah County Government is a drug-free workplace.

Acknowledgement below to be completed after an offer has been extended and accepted.

This job description has been approved by the Office of Human Resource Management in consultation with the Department Head.

Signature below constitutes an understanding of the requirements, essential functions and duties of the position.

Candidate / Employee _____ Date _____

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