



**STATE OF UTAH**  
invites applications for the position of:

## **GIS Analyst**

---

<b>SALARY:</b>	\$17.86 - \$32.43 Hourly
<b>OPENING DATE:</b>	12/15/22
<b>CLOSING DATE:</b>	01/17/23 11:59 PM
<b># OF OPENINGS:</b>	1
<b>BENEFITS:</b>	This position is eligible for a full benefits package. See benefits tab below for details.
<b>DRIVER LICENSE REQUIREMENTS:</b>	Employees hired for this recruitment will be subject to the Driver Eligibility standards found at the following link: <a href="https://adminrules.utah.gov/public/search/driver%20eligibility/Current%20Ru">https://adminrules.utah.gov/public/search/driver%20eligibility/Current%20Ru</a>
<b>LOCATION:</b>	1594 W. North Temple, Salt Lake City, Ut 84114
<b>RECRUITER:</b>	Kenneth Favor
<b>SCHEDULE CODE:</b>	B - Competitive Career Service - Employment in this position requires a probationary period.
<b>EEO STATEMENT:</b>	The State of Utah is committed to equal employment opportunity regardless of race, color, ancestry, religion, sex, national origin, sexual orientation, age, citizenship, marital status, disability, gender identity, or Veteran status. We also consider qualified applicants regardless of criminal histories, consistent with legal requirements. For accommodations, dial 711 or TTY: 800-346-4128.

### **JOB DESCRIPTION:**



**Job Title:** GIS Analyst

#### **Job Description:**

This GIS analyst position is a unique opportunity to grow a career in GIS and cartography at the Utah Geological Survey. This position provides a broad array of opportunities to work individually and on teams to produce top quality, cutting edge, published geologic maps. You will become a GeMS expert, manage and instruct GIS geologic mapping applications, serve as technical expert on photogrammetry and cartography, set up projects and provide technical assistance to geologists building geologic maps, compile geologic maps in GeMS-compliant GIS databases and prepare them for publication, develop procedures and standards, evaluate and manage software and hardware, train others in these functions, manage and archive maps, and review projects.

#### **Principle Duties:**

As a GIS Analyst you will:

- Produce and manage spatial databases, metadata, and other ancillary documentation for geologic maps.
- Use cartographic principles and GIS techniques to prepare geologic maps for publication.

- Convert UGS geologic map data into GeMS-compliant geodatabases.
- Set up GIS projects for and provide technical assistance to geologists and other GIS users.
- Evaluate maps produced by others for cartographic quality and technical accuracy per UGS Mapping standards.
- Help the Mapping Program achieve success by working with the team to refine and improve GIS standards, processes, and techniques.

**Why you should join our team:**

The UGS Geologic Mapping Program is one of the premier geologic map-producing organizations in the country. You will join a passionate and dedicated team of people with diverse skills who truly enjoy working together to produce exceptional geologic products. Don't get trapped doing the same thing day after day – every geologic map is different with its own set of challenges. Geologic maps are of high societal importance and you'll discover that they are some of the most complex and rewarding GIS products you can produce. The field is rapidly expanding into 3D geologic map production and you will cooperate with national groups who are developing 3D procedures, software, and schema.

**EXAMPLE OF DUTIES:**

- Format and generate a variety of GIS products including standard and custom maps and map series, standard map templates, shapefiles, graphics, tables and reports; perform data searches and retrievals.
- Extract and organize data; perform quality control to ensure accuracy and completeness of all data; research source documents and/or coordinate with others to resolve missing or conflicting data and other anomalies.
- Query, update and analyze spatial data; maintain and update geospatial databases; convert non-GIS information into GIS formats; convert spatial data from one system to another.
- Develop, improve, maintain, and perform quality control processes of GIS information and spatial data; test and implement GIS applications to meet customer needs.

**TYPICAL QUALIFICATIONS:**

Includes knowledge, skills, and abilities required upon entry into position and trainable after entry into position)

- The ability to listen to and understand information and ideas presented through spoken words and sentences.
- The ability to read and understand information and ideas presented in writing.
- The ability to communicate information and ideas in speaking so others will understand.
- The ability to communicate information and ideas in writing so others will understand.
- The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
- The ability to apply general rules to specific problems to produce answers that make sense.
- The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).
- The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).
- The ability to generate or use different sets of rules for combining or grouping things in different ways.
- The ability to choose the right mathematical methods or formulas to solve a problem.
- The ability to add, subtract, multiply, or divide quickly and correctly.
- The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.
- The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.
- The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.
- The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.
- The ability to see details at close range (within a few feet of the observer).
- The ability to identify and understand the speech of another person.
- The ability to speak clearly so others can understand you.
- Understanding written sentences and paragraphs in work related documents.

- Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- Communicating effectively in writing as appropriate for the needs of the audience.
- Talking to others to convey information effectively.
- Using mathematics to solve problems.
- Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- Understanding the implications of new information for both current and future problem-solving and decision-making.
- Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
- Adjusting actions in relation to others' actions.
- Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
- Considering the relative costs and benefits of potential actions to choose the most appropriate one.
- Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.
- Managing one's own time and the time of others.
- Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.
- Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.
- Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.
- Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.
- Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.
- Knowledge of principles and methods for describing the features of land, sea, and air masses, including their physical characteristics, locations, interrelationships, and distribution of plant, animal, and human life.
- Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.

## **SUPPLEMENTAL INFORMATION:**

- Risks found in the typical office setting, which is adequately lighted, heated, and ventilated, e.g. safe use of office equipment, avoiding trips and falls, observing fire regulations, etc.
- Typically, the employee may sit comfortably to perform the work; however, there may be some walking; standing; bending; carrying light items; driving an automobile, etc.

### **Preference will be given to candidates with advanced training in or experience:**

- Supporting others as they learn new technology.
- Using specific GIS methods, tools, and diverse software applications for production of high quality geologic maps.
- Addressing the unique problems and challenges associated with the production of geologic maps (using GIS) for publication and public distribution.

---

The State of Utah is an equal opportunity employer. Hiring is done without regard to race, color, religion, national origin, sex, sexual orientation, gender identity, age or disability. The State provides reasonable accommodations to the known disabilities of individuals in compliance with the Americans with Disabilities Act. For accommodation information or if you need special accommodations to complete the application process, please contact the Department of Human Resource Management at (801) 538-3025 or TTY (801) 538-3696.

APPLICATIONS MAY BE FILED ONLINE AT:  
<https://www.governmentjobs.com/careers/utah>

Position #34622  
 GIS ANALYST  
 KF

4315 S. 2700 W., Suite 2100  
 Salt Lake City, UT 84129

## GIS Analyst Supplemental Questionnaire

- \* 1. Your resume and work history must validate your answers on this application. If not, you may be disqualified or receive a lower overall score eliminating you from consideration.
  - I have read and understand the statements above.
- \* 2. DO NOT EMAIL OR FAX YOUR RESUME OR COVER LETTER TO RECRUITER.
  - I have read and understand the statement above.
- \* 3. Only those invited to an interview will be contacted.
  - I have read and understand the statement above.
- \* 4. Do you have EITHER a Bachelor's degree or higher in Geography, GIS, Cartography, Natural Resources, or related field OR equivalent professional experience?
  - Yes
  - No
- \* 5. If you answered YES to the previous question, describe your education (level completed, school(s) attended, major(s), and so on) and/or equivalent professional experience (total years, industry, roles/responsibilities, skills, and so on). If you answered NO, type "N/A" in the space below.
- \* 6. Do you have a GIS Certificate from an accredited college/university AND/OR other certification(s) or license(s) related to GIS, technology, or IT (these could include GISP, UAS Part 107, Microsoft certifications, and so on)?
  - Yes
  - No
- \* 7. If you answered YES to the previous question, list your GIS Certifications with the year received and the schools or agencies from where they were awarded.
- \* 8. How many years of directly-related PROFESSIONAL GIS experience do you have?
  - Five or more years of experience
  - Four to five years of experience
  - Three to four years of experience
  - Two to three years of experience
  - One to two years of experience
  - Up to one year of experience
  - No experience
- \* 9. Indicate the type(s) of PROFESSIONAL GIS experience you have from the following list (select all that apply):
  - Data creation and editing
  - Data conversion
  - Data management
  - Spatial analysis
  - Metadata creation and management
  - VB
  - SQL
  - Python
  - Arcade
  - Cartography
  - ArcGIS Online
  - Field deployment

- Using ArcGIS Pro
  - Using ArcMap
  - Using ArcGIS Online
  - Field deployment (Esri, Trimble, etc)
  - Drone piloting
  - None of the above
- \* 10. How many years of PROFESSIONAL experience do you have using Esri ArcPro?
- Five or more years of experience
  - Four to five years of experience
  - Three to four years of experience
  - Two to three years of experience
  - One to two years of experience
  - Up to one year of experience
  - No experience
- \* 11. How many years of PROFESSIONAL experience do you have using Esri ArcMap?
- Five or more years of experience
  - Four to five years of experience
  - Three to four years of experience
  - Two to three years of experience
  - One to two years of experience
  - Up to one year of experience
  - No experience
- \* 12. What level of experience do you have using Esri ArcGIS Online?
- Advanced – use on a regular basis
  - Intermediate – have used but not on a regular basis
  - Beginner – have knowledge of the program
  - No experience
- \* 13. What level of experience do you have scripting/programming using Python (or other language) for GIS projects or tasks?
- Advanced – script on a regular basis
  - Intermediate – have performed but not on a regular basis
  - Beginner – have knowledge of the process and program
  - No experience
- \* 14. What level of experience do you have deploying mobile field teams using applications such as Field Maps, Survey 123, and Collector?
- Advanced – perform on a regular basis
  - Intermediate – have performed but not on a regular basis
  - Beginner – have knowledge of the process and program
  - No experience
- \* 15. #Please indicate how you heard about this specific job posting.
- State of Utah job site ([www.governmentjobs.com/careers/utah](http://www.governmentjobs.com/careers/utah))
  - Referred by a Friend or Family
  - Indeed
  - Other External Job Board or Site
  - LinkedIn
  - Social Media (Facebook, Twitter, etc.)
  - DWS job website ([www.jobs.utah.gov](http://www.jobs.utah.gov))
  - Advertisement (Digital Ad, Billboard, Print, etc)
  - Professional Network (Association, Membership, Work Colleague)
  - University Network (Handshake, School Job Board, Career Center, etc)
  - Contacted by a Recruiter
  - Career or Job Fair
  - Internship
  - Interviewed for different position
  - Internal communications (Agency/Division, etc)
  - Other (not listed above)

\* Required Question