

POSITION VACANCY ANNOUNCEMENT
Kansas Geological Survey, The University of Kansas, Lawrence, Kansas

POSITION: Senior Cartographic Services Specialist

OFFICIAL KU TITLE: Research Engineer (000563)

START DATE: Position available April 10, 2023; exact starting date negotiable.

APPLICATION REVIEW: Position open until filled; review of applications will begin March 13, 2023.

SALARY, EMPLOYMENT STATUS, AND FRINGE BENEFITS:

Salary range is \$70K-\$75K, commensurate with qualifications, experience, and education. Full-time appointment at the University of Kansas, subject to annual review. Benefits include 22 days of vacation leave, 12 days sick leave, 9 holidays annually; optional group medical, dental, vision; life and other insurance; retirement program; and University staff privileges.

RESTRICTIONS: Only candidates with the appropriate U.S. work authorization at the time of appointment will be considered.

Position Overview

The Kansas Geological Survey (KGS) GIS Services Section's Cartographic Services unit is hiring a senior Cartographic Services Specialist. This position will work with the Cartographic Services Manager in directing activities and performing tasks related to all aspects of the unit's data creation and map production. Cartographic Services' work is focused on, though not limited to, creating and updating data and creating maps of Kansas geology from field data collected by KGS geologists. Duties of the position include a combination of project management and map and data creation tasks as described in the job description below.

Work Location: On-site at the Lawrence, KS campus with possibility of a hybrid (remote and on-site work) schedule as deemed by the supervisor.

Job Description

60% – Map and data creation

- Preparation of USGS StateMap deliverables, including GIS databases and corresponding county maps;
- Preparation of KGS M-series county geology maps, including geology GIS data development and editing, map composition and editing, and writing map text;
- Data attribution and metadata tasks for new and existing KGS geology GIS data to conform to the updated USGS GeMS standard;
- Assist in uploading of bibliographic entries to the USGS National Geologic Map Database (NGMDB) online catalog.
- Conversion of map projects to ArcGIS Pro format, automation of tasks and workflows, and organization of data;

30% – Assist in management of the Cartographic Services program to support KGS research and service initiatives and optimize Cartographic Services workflow and productivity

- Assist in design and development of KGS cartographic products;
- Participate in proposals to outside funding agencies for development and dissemination of digital map databases and map products in response to funding opportunities;
- Engage in activities with professional organizations and committees to promote a common understanding of procedures, technologies, and standards related to the objectives of the Cartographic Services Team;
- Coordinate with KGS staff members on methods to enhance data and product dissemination;
- Assist in directing the integration, development, and maintenance of geographic data layers to support cartographic development and updating map project files to ArcGIS Pro format;
- Participate in projects to scan and georeference historical cartographic products;

10% – Other

- Other duties as needed or directed.

Required Qualifications

1. Bachelor's degree in geology, geography, or other GIS-related field.
2. 4 years' experience in GIS employment OR an advanced degree with an emphasis in GIS and 2 years' experience.
3. Proficiency with Esri ArcGIS Pro and Desktop software suites.
4. Professional mapping experience, including some combination of cartographic design and production, geodatabase design and development, metadata creation, and data attribution.
5. Strong written and verbal communication skills and attention to detail as evidenced by application material, references, and Zoom interviews. Finalists will be required to submit a writing sample and a sample of GIS work.

Preferred Qualifications

1. Professional experience in the design and development of geologic or similar maps, including cross sections or block diagrams.
2. Experience in geologic writing, especially geologic unit descriptions.
3. Programming experience, especially ArcPy, Python, Arcade, Esri ModelBuilder, .Net, or C++.
4. Experience with Adobe Creative Suite and/or non-Esri GIS, mapping, or graphics software.
5. Advanced degree in geography, geology, or other related discipline, or equivalent professional work experience.
6. Professional certification in GIS—GISP, KGIS, or similar.

APPLICATION PROCEDURE:

Apply online at <https://employment.ku.edu/staff/24272BR>. Complete online application and upload:

1. Written letter of application **specifically and fully addressing each required and preferred qualification**.
2. Vitae/resume.
3. The names, addresses, telephone numbers, email addresses, and relationships of three professional references.

Note: Finalists will be asked to submit a writing sample and a sample of GIS work.

Application review begins March 13, 2023, and will continue until the position is filled.

CONTACT INFORMATION:

For technical questions, contact John Dunham, Kansas Geological Survey, jdunham@ku.edu, or (785) 864-2148.

For other questions contact Annette Delaney, Kansas Geological Survey Human Resources, adelaney@ku.edu, or (785) 864-2152.

Kansas Geological Survey: The Kansas Geological Survey (KGS) is a research and service division of the University of Kansas that investigates and provides information about the state's geologic and groundwater resources. The KGS has no regulatory authority and does not take positions on natural resource issues. More information at [KGS--About the KGS--Staff, Jobs, News \(ku.edu\)](https://www.kgs.ku.edu/About-the-KGS/Staff-Jobs-News).

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