



RESEARCHER 2 GEOLOGIST – MN GEOLOGICAL SURVEY Job ID: 340826

Special Notice for COVID-19

The UMN has suspended hiring for most positions. However, we will continue hiring for positions critical to the University's mission and operations at this time. **Applications are being accepted for this position** and you are encouraged to apply. In-person interviews are suspended indefinitely and will be replaced by interviews in a virtual format. Thank you for your continued interest in working at the University of Minnesota.

Qualifications

Minimum/Essential Qualifications:

- BS/BA and 1 year of related experience or equivalent combination of education and work experience to equal five (5) years.
- Must have a degree, training, or extensive experience in geographic information systems, specifically the ESRI family of ArcGIS products (Desktop, Pro, Online).
- Must understand geology and geologic mapping as demonstrated by experience, or a Bachelor's degree in Geology, Geologic Engineering, geography, or related field.
- Must be comfortable working in a team, working on several projects simultaneously, and meeting deadlines.
- Excellent communication skills are essential.

Preferred Qualifications (the applicant does not need to meet these qualifications):

- Master's degree or higher in Geographic Information Science, Geology, or Geologic Engineering is preferred.
- A certificate in Geographic Information Science is useful.
- Experience in relational databases such as PostgreSQL, developing both spatial and tabular data tools using Python, along with browser-based and/or mobile app development using tools such as ArcGIS online, Flask, Plotly or Angular. Familiarity with vector-based graphics software (e.g. Adobe Illustrator).
- Experience in 3D geologic modelling and visualization.

About the Job

The MGS is seeking a highly motivated individual to bring their unique experience and perspective to our community. This full-time position supports geologists and other staff by providing geographic information system (GIS) based 3D geologic modelling and visualization services. The employee provides interim GIS products to the geologists and then uses existing procedures and scripts to create GIS products from their work. This requires knowledge of geologic history and processes and the geographic information systems, as well as problem solving and creative thinking skills to create digital geologic maps and other products. Some training in these skills will be provided.

ESSENTIAL FUNCTIONS:

Geographic Information Services and Map creation (80%)

- Create GIS projects with appropriate datasets so that geologists can make interpretations and draw map contacts or contour geologic surfaces
- Take geologists' work and create maps, cross-sections, surfaces, and other products that meet cartographic and editorial standards
- Assist geologists with software and GIS-related problems
- Provide geological feedback to geologists within the context of mapping and the GIS environment
- Develop GIS scripts and tools for more efficient preparation and creation of standardized products
- Participate in development of new products and procedures

Distribution of MGS digital products (20%)

- Create digital and map interfaces for distributing MGS products and manage product files
- Keep data, and database of available products, up-to-date

NON-ESSENTIAL FUNCTIONS:

- Attendance at GIS- and mapping-related meetings
- Maintain currency with GIS products and usage
- Interaction with users and local, state, or national organizations that use or require digital data
- Public outreach involving geology and GIS, including teachers at all grade levels

* The Minnesota Geological Survey reserves the right to change or add duties to this position as long as the changes and/or additions are consistent with the job classification.

About the Department

The Minnesota Geological Survey is a research and service arm of the Newton Horace Winchell School of Earth Sciences at the University of Minnesota. It investigates the geology of Minnesota and provides basic public information on the geology of the state. The Survey works with state, county, and regional offices to set up geologic data bases and provide technical guidance for water resource planning, land management and mineral exploration policy, energy system development, and other planning and resource management activities.

We are an off-campus location on Territorial Road., St. Paul (near Hwy 280 and University Ave.)

The Minnesota Geological Survey (MGS) serves the people of Minnesota by providing the geological information needed to support stewardship of water, land, and mineral resources. The MGS is an equal opportunity employer and is actively committed to making real change in diverse recruitment, hiring, and advancement within our community. The Diversity, Equity, and Inclusion committee at the MGS is working to develop and continually improve an inclusive and equitable climate in the workplace. Applications from members of historically underrepresented groups are especially encouraged to apply.

The University of Minnesota and the MGS value diverse identities and experiences, and honor disability as an important aspect of human diversity. The Disability Resource Center (DRC) works in partnership with students, faculty, and staff of the University to eliminate or minimize barriers and facilitate inclusion in the workplace. The MGS is committed to creating a pathway for employees with disabilities to be successful through accessibility and accommodations for all job duties.

How To Apply

Applications must be submitted online. To be considered for this position, please click the Apply button and follow the instructions. You will be given the opportunity to complete an online application for the position and attach a cover letter and resume.

Additional documents may be attached after application by accessing your "My Job Applications" page and uploading documents in the "My Cover Letters and Attachments" section.

To request an accommodation during the application process, please e-mail employ@umn.edu or call (612) 624-UOHR (8647).

Diversity

The University recognizes and values the importance of diversity and inclusion in enriching the employment experience of its employees and in supporting the academic mission. The University is committed to attracting and retaining employees with varying identities and backgrounds.

The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. To learn more about diversity at the U: <http://diversity.umn.edu>.

Background Check Information

Any offer of employment is contingent upon the successful completion of a background check. Our presumption is that prospective employees are eligible to work here. Criminal convictions do not automatically disqualify finalists from employment.