

## **CONTRACT GEOLOGIST OPENING**

### **Wyoming State Geological Survey**

**CLOSING DATE:** Open until filled, applications received before 5/12/23 will receive full consideration

**AGENCY:** Wyoming State Geological Survey

**POSITIONS AVAILABLE:** 1

**LOCATION:** Laramie, WY

**PAY RATE:** \$24.00/hr

**NOTICE:** The Wyoming State Geological Survey (WSGS) is hiring one (1) CONTRACT GEOLOGIST position to work with staff geologists to characterize the critical mineral resource potential of the Medicine Bow Mountains in southeastern Wyoming. Interested applicants must submit a cover letter, resume, and include a completed job questionnaire (attached). Applicants are highly encouraged to also include an example of their field notes with their application. Applications received before May 12, 2023 will receive full consideration. Applicants must be eligible to work in the U.S.

**GENERAL DESCRIPTION OF WORK:** The CONTRACT GEOLOGIST position is a temporary, limited-term, contract employment opportunity in Laramie, Wyoming. Anticipated start date is June 1, 2023, and the contract will continue for approximately seven months, with the possibility for extension. The initial contract will be for up to 1,213 total hours, and hours can be flexible to accommodate a student schedule. This position will work with staff geologists to identify and characterize potential critical mineral occurrences throughout the Medicine Bow Mountains. Duties will include field work, sample cataloging, geochemical and petrographic interpretation, managing project databases, and technical report writing. Knowledge and experience in geologic field work, ore deposits, igneous and metamorphic geology, structural geology, petrography, geochronology, use of geographic information systems (GIS), and data management is essential. Successful applicants will be responsible for assisting in populating a sample database and summarizing findings based on project research.

#### **ESSENTIAL FUNCTIONS (generalized):**

Work with Project Geologists to:

- Research and compile existing geologic data.
- Review published literature, maps, site history, and other relevant data.
- Georeference, digitize, and plot sample location data using ArcGIS Pro.
- Compile and manage field and sample data in spreadsheets and spatial geodatabases.
- In the field, conduct sample collection and detailed outcrop characterization using analog and digital data collection techniques and equipment.
- Catalog and prepare rock samples for analysis.
- Assist with in-house sample analysis using X-ray diffraction (XRD), portable X-ray fluorescence (pXRF), and optical and petrographic techniques for characterization, identification, and screening purposes.
- Compile, summarize, and interpret geochemical results.
- Assist with technical report writing and figure production.

**PREFERRED KNOWLEDGE AND SKILLS:**

- Knowledge of current principles of geology, including igneous and/or metamorphic petrology, structural processes, ore deposits, stratigraphy, sedimentology, petrography, geochemistry, and geochronology.
- Proficiency in geologic field work, sample/data collection practice, and documentation of geologic units and field observations with detailed field notes.
- Experience using and maintaining field equipment (e.g. GPS, Brunton compass, pXRF, etc.)
- Ability to conduct fieldwork in remote and rugged locations, hiking up to 10 miles a day with a heavy backpack, for several consecutive days.
- Experience with GIS, specifically ArcGIS Pro, and spatial data management.
- Experience with interpretation of thin sections and geochemical analyses.
- Competence in scientific and technical writing.

**NECESSARY SPECIAL REQUIREMENTS:** The individual hired for this position must be available to work in Laramie, Wyoming, throughout the entirety of the contract, and, as necessary, be available for extended field travel for up to two weeks at a time.

**PREFERENCES:** Preference will be given to those applicants with a B.S. in Geology and 1–5 years of progressive work experience in Geology, with expertise in igneous or metamorphic petrology, ore deposits, and GIS database management.

Please email a cover letter, completed questionnaire, and resume to [tammy.mack@wyo.gov](mailto:tammy.mack@wyo.gov) with the subject line “Medicine Bows Application.”

**APPLICATIONS:** The State of Wyoming is an Equal Opportunity Employer and actively supports the ADA and reasonably accommodates qualified applicants with disabilities. No notice of eligibility will be sent to applicants who meet the minimum qualifications.

**DATE RELEASED:** 04/04/2023