

## **CONTRACT GEOLOGIST OPENING**

### **Wyoming State Geological Survey**

**CLOSING DATE:** Open until filled, applications received before 05/01/23 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 for the Wyoming sub-area of the Earth MRI Western Phosphate Field project. This position will work with staff geologists to characterize the critical mineral resource potential of the Phosphoria Formation across western Wyoming. Work will occur both in the office and the field from summer 2023 through spring 2024. 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 1<sup>st</sup>, 2023 will receive full consideration.

**GENERAL DESCRIPTION OF WORK:** The CONTRACT GEOLOGIST position is a temporary, limited-term, contract employment opportunity in Laramie, Wyoming. Anticipated start date is June 1st, 2023, dependent upon availability, and contract will run between ten to fourteen months (up to 1,646 total hours; if necessary hours can be flexible to accommodate a student schedule). This position will work with staff geologists to identify and characterize potential critical mineral occurrences associated with phosphorites and black shales in the Permian Phosphoria Formation. It will include field work, sample cataloging, geochemical and petrographic analyses, managing project databases, and technical report writing. Knowledge and experience in geologic field work, petrography, use of geographic information systems (GIS), and data management is essential. Successful applicants will be responsible for assisting in the generation of a sample database and reports based on project research.

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

Work with Project Geologists to:

- Research and compile existing geologic data.
- Georeference and digitize data using ArcGIS Pro.
- Review published literature, maps, site history, and other relevant data.
- Conduct detailed outcrop characterization in the field, including sample collection, measuring sections, and use of a portable X-ray fluorescence (pXRF) analyzer.
- Provide detailed descriptions of stratigraphy and geologic units in field notes
- Compile and manage field and sample data in spreadsheets and a geodatabase.
- Catalog and prepare rock samples for analysis.
- Assist with in-house analyses of samples to determine their physical, structure, and chemical composition, using X-ray diffraction (XRD), pXRF, and optical techniques.
- Compile, summarize, and interpret geochemical results.
- Assist in technical report writing and figure production.

**KNOWLEDGE AND SKILLS:**

- Knowledge of current principles of geology, stratigraphy, sedimentology, petrography, and geochemistry.
- Proficiency in geologic field work, including sampling and measuring stratigraphic sections.
- Experience with geographic information systems, specifically ArcGIS Pro.
- Competence in scientific and technical writing.
- Ability to conduct fieldwork in remote and rugged locations, hiking up to 10 miles a day with a heavy backpack, for several consecutive days.
- Familiarity or interest in marine chemocline systems, phosphates, or the Phosphoria Formation.

**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 who have a B.S. in Geology.

Please email a cover letter, completed questionnaire, and resume to [tammy.mack@wyo.gov](mailto:tammy.mack@wyo.gov) with the subject line "Phosphoria 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