Posted: October 13, 2025

NEW MEXICO TECH
SCIENCE • ENGINEERING • RESEARCH UNIVERSITY

POSITION ANNOUNCEMENT

TITLE: POSTDOCTORAL FELLOW IN GEOCHEMISTRY

DEPT: BUREAU OF GEOLOGY

REG ☐ **TEMP** ☑ **FULL TIME** ☑ **PART TIME** ☐

STARTING RATE or SALARY RANGE $58,000
Employees being promoted to a higher classified position receive the minimum for the position or a pay rate adjustment of 8% whichever is greater.
All regular positions also entitle the employee to several benefits including health, dental, vision, life insurance, and retirement which is largely paid by New Mexico Tech for the employee and dependents.

INTERNAL POSTING THROUGH: October 22, 2025* CONSIDERATION WILL BE GIVEN FIRST TO TEMPORARY AND REGULAR TECH EMPLOYEES WHO APPLY WITHIN THE 7 DAY INTERNAL POSTING. APPLICATIONS RECEIVED AFTER THE 7 DAY POSTING MARGIN WILL BE CONSIDERED WITH OTHER OUTSIDE APPLICANTS.

JOB SUMMARY:

The Postdoctoral fellow will conduct laboratory experiments part of a DOE funded project and work on the solubility of REE minerals at hydrothermal conditions, calorimetry, and clay sorption experiments. Part of the work will be to characterize the solids (SEM, XRD, and NMT/synchrotron based work) and conduct water analysis for rare earth elements (ICP-OES/ICP-MS) of the experimental products. Experimental data need to be evaluated using thermodynamic models. The Postdoctoral fellow will also write peer-reviewed articles, present at conferences and will be part of our research group to advise undergraduate/graduate students in the laboratory. The Postdoctoral fellow will also help in daily laboratory tasks (cleanup, ordering materials, etc.) and analysis of experimental run products for the project. Attendance to conference and presentations, as well as delivery of reports are part of the work. Ideal candidates will help writing proposals for synchrotron work.

JOB FUNCTIONS:

Laboratory experiments. Writing of articles and reports, and presentations. Laboratory duties. Training/support of students.

REQUIRED QUALIFICATIONS:

Ph.D. or other doctorate level equivalent in Hydrothermal Experiments, Analytical Chemistry Water, Thermodynamic Modeling. Hydrothermal solubility experiments R Analytical chemistry water, method development (ICP-OES/ICP-MS, UV-Vis). Thermodynamic modeling.

DESIRED QUALIFICATIONS:

Solid analytical techniques (XRD, SEM, Raman). Clay sorption modeling and calorimetry experiments, synchrotron based techniques.

LIFTING REQUIREMENTS:

(f)requently, (o)ccasionally, or (s)eldom

0 - 15 pounds	F
15 - 30 pounds	O
30 - 50 pounds	O
50 - 100 pounds	S
100 + pounds	S

PHYSICAL DEMANDS:

Standing 350%	Sitting 50%	Walking 50%	Pulling 5%
Pushing 5%	Lifting 10%	Stooping 5%	Kneeling 5%
Crawling	Climbing	Reaching 5%	Other

Apply to: nmtjobapps@npe.nmt.edu