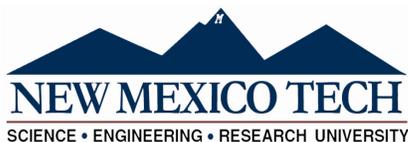


Posted: April 14, 2025



POSITION ANNOUNCEMENT

TITLE: POSTDOC/XRD AND EPMA ANALYST

DEPT: BUREAU OF GEOLOGY

REG **TEMP** **FULL TIME** **PART TIME**

STARTING RATE or SALARY RANGE \$54,000 - \$68,000

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: 04/25/2025* 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 New Mexico Bureau of Geology and Mineral Resources (NMBGMR) is seeking a postdoctoral candidate for mineralogical/geological research, and oversight of its new X-ray diffraction and electron microprobe center. The successful candidate will help manage the daily activities of the lab, including sample preparation and the operation of a Panalytical X'Pert Pro powder X-ray diffractometer (XRD), a new Rigaku Synergy-S single crystal XRD, and a new JEOL JXA-iHP200F Field Emission Electron Microprobe. The position will also involve training students and researchers in the use of the facility's instruments, and help with maintenance of facility instrumentation. The NMBGMR, a research division of New Mexico Tech (NMT), is located in Socorro, New Mexico. As the state's geological survey, the Bureau is a non-regulatory research organization committed to understanding and managing New Mexico's natural resources and geological hazards. The Bureau conducts comprehensive geological studies, provides educational resources, and collaborates with industry and government agencies to support sustainable development and economic growth in New Mexico. We invite applicants with technical expertise in X-ray diffraction and microbeam analysis to apply for this position. Candidates with a broad range of experience levels are encouraged to apply. This role is ideal for someone with a strong technical background who is eager to contribute to a leading research institution and advance their career in Earth materials science.

JOB FUNCTIONS:

Operating the X-ray diffraction and electron microprobe facility. Independent and cooperative research projects. Assisting NMBGMR coworkers, students and external scientists with analytical techniques. Possible classroom teaching of crystallography and diffraction methods. Help in management of the facilities scheduling, billing, upkeep and maintenance.

REQUIRED QUALIFICATIONS:

Ph.D. or other doctorate level equivalent in Geoscience, Materials Science or Chemistry. Experience operating a powder X-ray diffractometer and data analysis. Experience operating an electron microprobe and data analysis. Ability to perform independent research, write papers, and potential to obtain grants. Ability to interact with, and educate students and colleagues.

DESIRED QUALIFICATIONS:

Experience operating a single-crystal X-ray diffractometer and data analysis.

LIFTING REQUIREMENTS:

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

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

PHYSICAL DEMANDS:

Standing 40%	Sitting 40%	Walking 40%	Pulling
Pushing 20%	Lifting 10%	Stooping 10%	Kneeling 20%
Crawling	Climbing	Reaching 10%	Other

Apply to: nmtjobapps@npe.nmt.edu