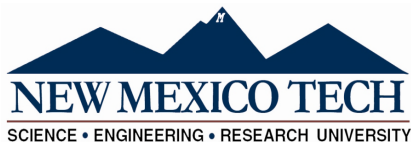


Posted: April 7, 2025



POSITION ANNOUNCEMENT

TITLE: POST-DOCTORAL RESEACHER

DEPT: EARTH AND ENVIRINMENTAL SCIENCE

REG

TEMP

FULL TIME

PART TIME

STARTING RATE or SALARY RANGE \$58,000-\$60,000

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: 04/16/2025* 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 researcher will carry out high-temperature and high-pressure experiments focused on the crystallization of biotite in rhyolite melts and aqueous fluids in cold-seal pressure vessels. The postdoctoral researcher will analyze the run products with microprobe, Raman and XANES. The postdoctoral researcher will also be responsible for disseminating results at professional conferences publish resulting datasets in manuscript form and participate in training of graduate students.

JOB FUNCTIONS:

Carry out high-temperature and high-pressure experiments in cold seal pressure vessels. Analyzing fluids, crystals and glasses in experiments using a variety of analytical techniques. Disseminating results in publication and professional presentation. Assisting with training graduate and undergraduate students.

REQUIRED QUALIFICATIONS:

Ph.D. or other doctorate level equivalent in Geochemistry, Experimental Petrology, Igneous Petrology. Ability to conduct experiments at high temperature in experimental vessels (ideally cold seal pressure vessels) and operating knowledge of experimental workflow (capsule construction to sample preparation for analysis). Experience collecting chemical analyses on glasses and crystals using an electron microprobe and at least one other instrument: Raman Spectrometer, LA-ICMPS, μ XANES synchrotron, Electron backscatter diffractometer. Experience with summarizing and disseminating experimental results via conference abstract and through publication.

DESIRED QUALIFICATIONS:

Experience with preparing, mounting, orienting and polishing small samples. Experience making simple aqueous solutions.

LIFTING REQUIREMENTS:

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

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

PHYSICAL DEMANDS:

Standing 25%	Sitting 45%	Walking 5%	Pulling 5%
Pushing 5%	Lifting 10%	Stooping 5%	Kneeling 5%
Crawling 5%	Climbing	Reaching 5%	Other

Apply to: nmtjobapps@npe.nmt.edu