Posted: <u>June 16, 2022</u>

NEW MEXICO TECH
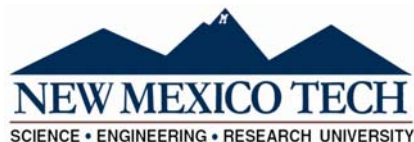SCIENCE • ENGINEERING • RESEARCH UNIVERSITY

POSITION ANNOUNCEMENT

TITLE: <u>SENIOR POSTDOCTORAL- INSTRUMENTATION</u>   **DEPT:** <u>MROI</u>

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

STARTING RATE or SALARY RANGE <u>$60,000-$65,000</u>

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: <u>Concurrent</u>* 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 DUTIES:

The successful candidate will lead the development, installation, alignment and commissioning of a subset of the opto-mechanical subsystems of the MROI. Depending on the candidate's interests and skills these would be some combination of the beam combiners, alignment systems, beam relay optical components, or back-end detector systems. They will also participate in the overall commissioning of the MRO interferometer to realize first fringes and first science observations. Their activities will include (but are not limited to): procuring, assembling and aligning opto-mechanical hardware, interfacing hardware to software, testing subsystem performance, debugging opto-mechanical subsystems, and participating in the formal performance validation of the MRO interferometer and realizing first fringes and first science with the array on sky.

REQUIRED QUALIFICATIONS:

Ph.D. or other doctorate level equivalent. Area of study: Physics/Astronomy instrumentation (or equivalent). Hands on experience of optical instrument design, development required. Knowledge of Zemax, Code V or similar optical software required. Experience deploying and verifying performance of optical systems required. Knowledge of digital and/or analog electronics for sensing and instrument control desired. Experience in writing software for data analysis and/or instrument control in Python, Java, or C++ desired.

Apply to: nmtjobapps@npe.nmt.edu OR NMT/ HR 801 Leroy Place Box 105, Socorro, NM 87801