

Posted: July 25, 2023



POSITION ANNOUNCEMENT

TITLE: SENIOR SOFTWARE ENGINEER

DEPT: MRO INTERFEROMETER/PHYSICS

REG

TEMP

FULL TIME

PART TIME

STARTING RATE or SALARY RANGE \$80,000-\$85,000

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: August 2, 2023*

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:

New Mexico Tech is currently constructing the Magdalena Ridge Observatory Interferometer (MROI), an array of astronomical telescopes that will make images at angular resolutions 50 times better than the James Webb Space Telescope. The Senior Software Engineer will join the team delivering the MROI and will be responsible for providing technical leadership and management oversight of the MROI's four-person software team. They will plan and monitor the delivery of the software for the MROI, provide day-to-day management and mentoring of the software team, and participate and assist others, in the design, coding, and testing of the MROI's software and its subsequent commissioning. They will liaise with the Project Engineer, Project Scientist, and the System Architects to ensure the timely deployment of the distributed software system necessary to support the successful operation of the MRO Interferometer.

JOB FUNCTIONS:

Design, coding and testing of MROI software	40%	
Assisting others in the software team in design, coding and testing	15%	
Day-to-day management, training and mentoring of MROI software team		10%
Reporting (orally and in writing) on software to stakeholders and sponsors		10%
Supporting software commissioning on the Magdalena Ridge	10%	
Supporting outreach, development, and science-related activities		5%
Other duties as assigned	10%	

REQUIRED QUALIFICATIONS:

Bachelor's Degree- in any area of study. Five or more years' experience of modern software engineering practices. Five or more years' experience of developing software in a Linux environment. Expertise in programming in Java. Experience in client/server code development. Experience in database design, development, and operation. Knowledge of software/hardware interfacing. Software-related QA experience, e.g., code reviews, testing pipe-lines, static code analysis. Excellent documentation and communication skills. Ability to get a NM Driver's License and pass the DDC course to drive NMT vehicles.

DESIRED QUALIFICATIONS:

Master's Degree, in any engineering or scientific degree with equivalent software experience. Experience of programming in Python or C, and real-time software development. Experience of management of a small software development team, including mentoring, training, and oversight experience.

LIFTING REQUIREMENTS:

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

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

PHYSICAL DEMANDS:

Standing 10%	Sitting 60%	Walking 10%	Pulling 5%
Pushing 2%	Lifting 5%	Stooping 2%	Kneeling
Crawling	Climbing	Reaching	Other

Apply to: nmtjobapps@npe.nmt.edu