Posted: **July 13, 2018**

NEW MEXICO TECH
SCIENCE • ENGINEERING • RESEARCH • UNIVERSITY

POSITION ANNOUNCEMENT

TITLE: SOFTWARE ENGINEER **DEPT:** MAGDALENA RIDGE OBSERVATORY (MRO)

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

STARTING RATE or SALARY RANGE: $50,000
Employees being promoted to a higher classified position receive the minimum for the position or a pay rate adjustment of 8% whichever is greater.
INTERNAL POSTING THROUGH: Concurrent* 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.

EMPLOYER DESCRIPTION

The Magdalena Ridge Observatory Interferometer (MROI) seeks to be one of the most powerful optical telescopes on earth: possibly, in terms of angular resolution, the most powerful telescope.

The Magdalena Ridge Observatory (MRO) is located at an altitude of 10,600 ft in the Magdalena Mountains in Socorro County, south central New Mexico, and is a department of New Mexico Institute of Mining and Technology (NMT), with offices located on the NMT campus in Socorro, NM.

The Observatory consists of two major facilities, a 2.4-meter fast-tracking telescope, which has been in operation for 8 years, and an optical Interferometer which, with partners from the University of Cambridge, UK, has been in development for 15 years and which will consist of ten 1.4-meter optical/infrared telescopes in a Y configuration array. The MROI will be able to image targets up to 100 times fainter than any existing interferometer and will have up to 200 times more angular resolution than the Hubble Space Telescope.

JOB DUTIES:

MROI is currently seeking to strengthen our software team focused on the development of supervisory and controls software. The Software Engineer will join a team of software engineers working under the guidance of the Lead Software Engineer to develop software to support the scientific and engineering development of the Magdalena Ridge Observatory Interferometer. The successful candidate will have demonstrated a strong ability to work independently, effective problem solving based on technical skills with minor supervision. The successful candidate will bring to the project knowledge and experience of client/server methodologies (SCADA) and Real-Time Linux.
Specific job responsibilities include, but are not limited to:
Developing software for distributed control system using client/server methodologies and object-oriented programming.
Documenting and reporting on all activities, progress and technical status.

REQUIRED QUALIFICATIONS:
Bachelor's degree required in Computer Science. Object oriented software development techniques required. Java, C required. Knowledge of graphical user interface techniques required. Knowledge of client/server methodologies (SCADA), Real-Time Linux is desirable. Willingness to obtain a valid NM Driver's License required.

Bachelor's degree required in Computer Science or related scientific discipline.
Object oriented software development techniques required.
Knowledge of Java and C is required.
Knowledge of graphical user interface techniques required.
Knowledge of Client/Server methodologies is desirable.
Knowledge of Real time Linux is desirable.