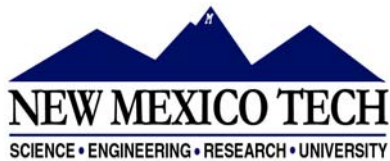


**Posted:** May 3, 2018



**RE OPEN 5/3/18**  
**POSITION ANNOUNCEMENT**

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

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

**STARTING RATE or SALARY RANGE:** Negotiable

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.

**JOB DUTIES:**

Analyzes, designs, and develops, software for a distributed control system, high-speed data acquisition systems, in science and engineering applications, using client/server methodologies, and object-oriented programming for the MROI. Develops codes, tests, integrates and debugs software for Java, client/server protocols, Linux, and Real-time Linux. Required familiarity with software development and maintenance tools using Linux. Experience with C, input/output peripherals, hardware device interfaces and software, hardware, and networks. Documents requirements, design, coding, testing, integration and commissioning activities associated with software. Provides MRO staff with significant software engineering experience and depth of familiarity with implementation or world-class facility-grade software applications for complex control systems and data acquisitions. Documents and reports on all activities, progress, and technical status. Demonstrates strong capability of independence, effective problem solving, creativity and experienced decision-making ability based on developed technical skills with minor supervision and guidance. Other duties as required by the MRO Interferometer Software and Control Systems team lead.

**REQUIRED QUALIFICATIONS:**

Bachelor's degree required in Computer Science or related scientific discipline with at least 5 years' design and development experience required. Proven ability to design complicated control software required. Proven ability to develop software using Java, Linux and associated tools required. Proven ability to successfully deliver complex software required. Excellent interpersonal skills to work in a team environment required. Excellent presentational and written communications skills required. Demonstrated ability to develop software using C or C++ in real-time environment desired. Experience with database design desired. Demonstrated ability to work with astronomical applications desired. Demonstrated ability to interface with and manage external contracts/ vendors desired. Willingness to obtain a valid NM Driver's License required.