

**Posted:** May 14, 2024



## POSITION ANNOUNCEMENT

**TITLE:** SOFTWARE DEVELOPER (2)

**DEPT:** ICASA

**REG**

**TEMP**

**FULL TIME**

**PART TIME**

**STARTING RATE or SALARY RANGE** \$65,000-\$80,000

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:** 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 SUMMARY:

The Software Developer will be responsible and capable of building out and maintaining large complex systems. This critical role must have a strong technical background, business acumen, strong leadership skills, and people-management skills. Analytical thinking also is very important, as this position often involves problem resolution and process development. The Software Developer will collaborate with mathematicians, research scientists, data scientists, data analysts and engineers (mechanical, electrical), and other team members on the implementation, testing, deployment and ICASA's technology.

The Software Developer will support the Institute for Complex Additive Systems Analysis (ICASA), a research division of New Mexico Institute of Mining and Technology (NMIMT) in a full spectrum of software design, development, test and implementation and technology transfer of ICASA's analytical tool-sets to the customer.

The Software Developer will provide technical contract support to ICASA's customer base and provide internal support where needed.

The candidate will work in an innovative and collaborative environment to address national security challenges through research and development in data science, geospatial science, computer science, complex systems, artificial intelligence, and machine learning.

### JOB FUNCTIONS:

Assist research scientists, data scientist/analysts from diverse backgrounds to turn out efficient, logical and well-documented software that fits within the ICASA coding framework. Implement software to meet the specific demands of the ICASA technical staff. 70%

Implement and maintain a software development environment and doctrine, implemented institute wide, which enables industry best practices in software development for the institute (For example, continuous integration, automated testing, version control, etc). 20%

Participate in the analytic and scientific process to aid the innovation of ICASA technologies. 10%

### REQUIRED QUALIFICATIONS:

Bachelor's degree required in Computer Science, Information Systems or related and 1 years work experience using software development practices. Master in Languages: Java, Python. Master in Programming Frameworks/Design: Web Interface Frameworks, Junit. Master in Testing and Developer Frameworks: JIRA, Github/Bitbucket, Git, Any IDE. Ability to work both independently and on multidisciplinary teams. Strong interpersonal and communication skills. Initiative in both critical thinking, forward thinking, time and commitment to excellence. Excellent problem solving and trouble shooting skills with respect to complicated interdependent projects. Time management skills applied to managing a small team and working on individual

projects. Ability to manage and deploy complex systems (often composed of many individual components). US Citizenship is required. Must be eligible to obtain & maintain up to a TS/SCI security clearance.

### **DESIRED QUALIFICATIONS:**

Proficient in Languages: Bash, C, C++, JavaScript/Typescript. Proficient in Programming Frameworks/Design: Docker/Kubernetes, Kafka/MQTT. Proficient in Testing and Developer Frameworks: Confluence, Bamboo, Artifactory. Familiar with Languages: Perl, Scala, Matlab, PHPP, HTML, C#. Familiar with Programming Frameworks/Design: Spark, Hadoop, SQL. Familiar with Testing and Developer Frameworks: Linux, Windows, Mac. Complex algorithm development experience. Background in graph theory, information sciences, linear algebra, differential equations, geospatial technologies.

### **LIFTING REQUIREMENTS:**

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

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

### **PHYSICAL DEMANDS:**

Standing 5%	Sitting 85%	Walking 5%	Pulling
Pushing	Lifting	Stooping 5%	Kneeling
Crawling	Climbing	Reaching	Other

Apply to: [nmtjobapps@npe.nmt.edu](mailto:nmtjobapps@npe.nmt.edu)