NEW MEXICO TECH
SCIENCE • ENGINEERING • RESEARCH UNIVERSITY

POSITION ANNOUNCEMENT
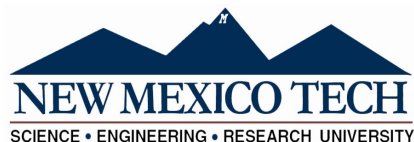
TITLE: <u>CLOUD ENGINEER</u>   **DEPT:** <u>ICASA</u>

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

STARTING RATE or SALARY RANGE <u>$65,000-$80,000</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>May 6, 2024*</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 SUMMARY:

Under general supervision, design, develop, secure and maintain complex information systems infrastructure based on various cloud-centric technologies in support of ICASA's mission. Remote or Hybrid work arrangement may be possible for the right candidate in accordance with NMT's Flexible Work Policy. Visa sponsorship is not available for this position.

JOBS FUNCTIONS:

Cloud/Systems Engineering   50%
- Design, build, and maintain ICASA's cloud-centric infrastructure, following best practices for platform builds, troubleshooting, and Infrastructure as Code (IaC) methodologies.
- Collaborate with system administrators and software development teams to provide guidance on cloud architecture, design, and deployment best practices.
- Develop and implement automated processes for provisioning, configuration, monitoring, and scaling of ICASA's resources using IaC tools.
- Use existing as well as develop new automation toolsets and pipeline deployments to maintain robust and scalable infrastructure.
- Troubleshoot and resolve complex issues related to server hardware, storage, network, security, orchestration and other related supporting services.
- Monitor and optimize the performance, availability, and security of ICASA's resources and services.
- Implement and enforce security best practices, including data encryption, access controls, and compliance with regulatory requirements.
- Collaborate with various team members to ensure smooth deployment, monitoring, and management of applications and services.
- Provide occasional support outside of normal business hours to provide timely resolution of critical incidents.

Development/DevOps   30%
- Design and build a variety of tools, applications and interfaces to support infrastructure.
- Promote best practices and patterns in software development.
- Write and evaluate code to ensure that it is valid, maintainable, and meets industry standards.
- Follow agile principles, frameworks and methodologies.
- Participate in design and code reviews.
- Utilize version control and continuous integration/continuous delivery methods.
- Develop strategies for effective debugging, unit and acceptance testing.

- Performs complex problem solving and assistance on diverse software applications and hardware systems for staff and customers.

Other   20%
- Contribute to the development and maintenance of documentation, diagrams, standard operating procedures, and knowledge base articles on hardware, software, networks and systems.
- Participates in and/or leads research and development initiatives and provides assistance in the implementation of new technologies.
- Maintains currency of knowledge with respect to hardware, software, networking, cybersecurity, emerging technologies, industry trends, best practices, applicable laws, regulations, standards and/or systems and provide recommendations for their adoption in ICASA's environment.
- Provides in-depth individual and/or group instruction and training to staff and/or customers on new software and systems.
- Performs miscellaneous job-related duties as assigned.

REQUIRED QUALIFICATIONS:

Bachelor's Degree in Computer Science, Software Engineering, Software Development or related field. Graduate education and/or experience that is directly related to the duties and responsibilities specified may be interchangeable on a year for year basis. 2+ year of full-time (or part-time equivalent) cloud engineering experience. 1+ years of full-time (or part-time equivalent) software development experience. Experience with virtualization and containerization/orchestration/management technologies, particularly Docker/Podman, Kubernetes, Helm, and Rancher. Experience with Linux and Bash scripting. Experience with a variety of open source programming languages, libraries and frameworks. Excellent teamwork, time management and interpersonal skills. Excellent oral and written communication skills. Must be a U.S. Citizen and able to obtain and maintain a Top Secret/SCI level security clearance.

DESIRED QUALIFICATIONS:

Expertise in Java, Python, Go and their ecosystems. Experience with Red Hat/Red Hat clones. Experience managing network related services and components such as DNS, DHCP, VLANs, switches, routers, etc. Experience managing security related services and components such as firewalls, VPNs, IDS/IPS, audit log analysis, etc. Experience developing and maintaining various backend databases (SQL, NoSQL). Experience with agile methodologies. Expertise in version control systems and workflow with Bitbucket, Github, etc. Experience with JIRA and Confluence. Experience with application/system performance and security testing tools and methodologies. Understanding of various identity and authentication mechanisms to enable single sign on, multi-factor authentication, password-less login, etc. Familiarity with core services of the major cloud service providers (GCP, AWS and Azure).

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 75%	Walking 5%	Pulling
Pushing	Lifting 5%	Stooping 5%	Kneeling
Crawling	Climbing	Reaching	Other 5%

Apply to: nmtjobapps@npe.nmt.edu