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Current CANTADA Job Openings (May 2023)

All Current CANTADA Positions require US Citizenship and a security clearance.

Job Description	Exp. Level	Summary
CNO Developer (Android) (E5) (3 positions)	BS+10 or MS+6 or PhD+4	**Location:** Chantilly, VA **Position Overview:** Design custom software tools and techniques for mobile platforms; be responsible for end-to-end design and development of custom software; diagnose and debug issues using both COTS and GOTS tools; have a firm understanding of how networks work; develop documentation pertinent to operating and supporting developed software and techniques; mentor and lead junior-level developers to accomplish mission objectives; and solve real-time cyber challenges. **Requirements:** ▪ Ten years of experience programming in C and Python. ▪ Ten years of experience UNIX applications using make files or comparable build environments, mission-applicable platforms. ▪ Ten years of experience with programming CNO tools and techniques. ▪ Ten years of experience with network sockets programming and expert packet-level understanding of IP, TCP, and application-level protocols. ▪ Experience tracing code execution in a debugger (WinDbg/gdb/IDA Pro). ▪ Experience reverse engineering native binaries. ▪ Experience developing proof-of-concept exploit software. ▪ Experience creating and briefing technical presentations. ▪ Experience with mobile platforms. ▪ Knowledge of Unix kernel internals, including the OS runtime linker/loader, object file formats (e.g., ELF), file system internals (e.g., NTFS, ext2, btrfs), OS-specific mandatory and discretionary access control mechanisms, and process and thread APIs and data structures. ▪ Understanding of security protection mechanisms (ASLR, DEP, NX), how to defeat them, and how to detect a defeat. ▪ Experience developing software and performing code reviews on a team, using tools such as git, Gitlab, etc. **Desired Experience:** ▪ Experience with native-level mobile development. ▪ Experience with vulnerability analysis. ▪ Experience with assembly, preferably ARM.

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Job Description	Exp. Level	Summary
Jr. CNO Developer (Android) (E4) (1 position)	BS+6 or MS+4	**Location:** Chantilly, VA **Position Overview:** Design custom software tools and techniques for mobile platforms; be responsible for end-to-end design and development of custom software; diagnose and debug issues using both COTS and GOTS tools; have a firm understanding of how networks work; develop documentation pertinent to operating and supporting developed software and techniques; mentor and lead junior-level developers to accomplish mission objectives; and solve real-time cyber challenges. **Requirements:** ▪ Six years of experience programming in C and Python. ▪ Six years of experience UNIX applications using make files or comparable build environments, mission-applicable platforms. ▪ Six years of experience with programming CNO tools and techniques. ▪ Six years of experience with network sockets programming and expert packet-level understanding of IP, TCP, and application-level protocols. ▪ Experience tracing code execution in a debugger (WinDbg/gdb/IDA Pro). ▪ Experience reverse engineering native binaries. ▪ Experience developing proof-of-concept exploit software. ▪ Experience creating and briefing technical presentations. ▪ Experience with mobile platforms. ▪ Knowledge of Unix kernel internals, including the OS runtime linker/loader, object file formats (e.g., ELF), file system internals (e.g., NTFS, ext2, btrfs), OS-specific mandatory and discretionary access control mechanisms, and process and thread APIs and data structures. ▪ Understanding of security protection mechanisms (ASLR, DEP, NX), how to defeat them, and how to detect a defeat. ▪ Experience developing software and performing code reviews on a team, using tools such as git, Gitlab, etc. **Desired Experience:** ▪ Experience with native-level mobile development. ▪ Experience with vulnerability analysis. ▪ Experience with assembly, preferably ARM and MacOS. ▪ Understanding of mobile security protection mechanisms, such as SELinux and application sandboxing.

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Job Description	Exp. Level	Summary
SE5 SETA System Engineer (040323-1)	BS+15 or 19 years or MS+15	**Position Overview:** Advise and assist Government Program Managers (GPMs) in System Engineering activities by applying current DoD, customer, and industry best practices in Systems Engineering processes and principles. You will assist with collection/creation of system engineering plans that are essential to carrying out the strategic goals as set forth in Security Authorization capabilities. All work is to be performed in accordance with customer and DoD policies, procedures, and plans. **Requirements:** • Creating/improving methodology, processes, and tools. • Supporting system design and technical performance requirements. • Informing government leads on the status and progress of all projects. • Supporting setup, update, and/or review of Quality Assurance plans, Integrated Master Plans, and Configuration Management plans. • Assisting in the creation, maintenance, and integration of all system engineering activities and acquisition schedules. • Providing expertise in system engineering requirements alignment goals and architectural alignment goals. • Recommending and guiding system engineering solutions that minimize unique external engineering system interfaces. • Advising the GPM on requirements reviews, to include security and all compliance requirements. **Desired Experience:** • Excellent oral and written communications skills. • Experience with Agile methodologies. • Experience in system security authorizations. • Broad experience in systems engineering disciplines, system integration, and project management. • A demonstrated ability to work constructively and successfully with diverse stakeholders to resolve mission and technical issues.

Job Description	Exp. Level	Summary
SE6 Mission Need Advisor (Taleo 050523-1)	BS+20 or 24+ years or MS+18 or PhD+1	**Position Overview:** Provide systems engineering support to the customer's high-level end-to-end IT requirements definition by supporting the predesign step of the customer's enhanced solution process. You will support writing the Mission Need requests (high-level functional system requirements) and provide analysis of the mission needs in development, including initial scoping, identification of deficiencies to be resolved by the solution, identification of affected domains and potential remedies to be evaluated. Additionally, you will support the initial scoping and categorization of the effort required to provide the solution, which shall be graphically depicted and presented to decision-making boards. **Requirements:** ▪ Three or more years of recent experience in writing and managing functional requirements. ▪ A minimum of three years' successful recent experience with requirements development and documentation for system engineering processes and procedures. **Desired Experience:** ▪ Familiarity with the customer's environment, domains, programs, and projects. ▪ Significant experience with Intelligence Community customers, their missions, and infrastructures. ▪ Clear customer interface experience and skill with Cognitive Task/Work Analysis (CTA/CWA) or similar user-centered knowledge elicitation techniques Demonstrated ability to translate user interviews/observations into domain descriptions, workflow diagrams, and identify problem areas within them. ▪ Employ sound system engineering and human-machine interaction principles to develop, vet with customers, and refine high-level conceptual designs in response to identified problems. Comfortable with visual representation design and interactive prototyping. ▪ Use of Visio, PowerPoint, Excel, and or other presentation software to develop clear graphical representations of "current" and "to be" views of the Mission Needs and their solutions. ▪ Good analytic, problem definition/identification, problem solving/mitigation skills. ▪ Strong writing and communication skills. ▪ Metrics experience to include ability to use automation to generate effective reports, dashboards, and metrics that can be effectively used by Senior Leadership to make decisions and provide real-time tracking and reporting of mission need operational status. ▪ Ability to establish and maintain strong working relationships with customers. ▪ Demonstrated customer interface experience in eliciting technical requirements. ▪ Experience working on project development from requirements definition to deployment.

Job Description	Exp. Level	Summary
SE6 Tech Transition (041723-1)	BS+20 or 24+ years or MS+18 or PhD+1	**Position Overview:** Provide systems engineering support to a technology transition organization responsible for management and oversight of technology transition into and out of the Enterprise Architecture. These transition activities include managing the introduction of new prototype capabilities. The Technology Transition Office provides support not only across the customer but also to external IC partners to ensure transition stakeholder requirements are understood and considered. Transition activities include managing and supporting Technology Transition Office process, monitoring, and measuring progress through the process, identifying risks, and recommending mitigations and supporting planning activities. Customer support requests are evaluated by the Government to determine alignment with its scope and objectives. Discrete task descriptions will be created for all requests and be used for tracking and to enable contractor assignments. As a Systems Engineer you will provide systems engineering expertise in scoping, planning, monitoring, and generating systems engineering artifacts to support the technical evaluation of prototypes, assist the government to facilitate technology transition into the capabilities architecture, and work with the government to facilitate / lead cross-directorate Integrated-Product Teams [IPTs] to engage stakeholders in accomplishing the work. **Requirements:** ▪ Subject Matter Expert in 1 or more SE Process Areas; Approve delivery of SE work product, and briefing Stakeholders on all technical aspects of their Project. ▪ Ability to plan and deliver engineering projects with unique/ complex aspects that impact major capabilities of high priority to the enterprise. ▪ Ability to independently resolve important engineering issues requiring the use of advanced technology. ▪ Five or more years' experience supporting programs and projects within this customer space. **Desired Experience:** ▪ Experience in technical program/ project management/ project implementation highly desired. ▪ Experience in defining an effort from mission outcomes/objectives to key tasks, collaborating with others monitori9ng and preparing out-reports. ▪ Experience in writing and/or managing the development of functional requirements and other related SE documentation. ▪ Excellent writing, communication, and interpersonal skills. ▪ Experience in development/ implementation of SE processes and procedures. ▪ Experience with Confluence / JIRA managing Systems Engineering Projects.

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Job Description	Exp. Level	Summary
SE6 Cyber (032723-2)	BS+20 or 24+ years or MS+18 or PhD+1	**Position Overview:** Provide systems engineering and technical services to the mission customer's critical networks and systems effort. **Activities associated with this position include:** ▪ Gather and review technical documentation, facilitate conversations between the service providers and product owners, and meet with those product owners to discuss and document infrastructure requirements. ▪ Support requirements gathering, process design and implementation, and CONOPS development. ▪ Provide engineering services to assess the technical viability of programs and related efforts, to include software requirements definition, test software validation and verification processes, and implementation of the integration activities to ensure security of critical Federal systems. ▪ Provide Cybersecurity subject matter expertise and engineering support, create process documentation, migration plans, and program-level SE documents. ▪ Participate in Integrated Product Teams (IPTs), identifying SE areas that need enterprise coordination. ▪ Provide oversight and monitoring of existing development and integration activities, and coordinate with Forward Deployed Lead Systems Engineers (LSE) and teams and stakeholders. ▪ Track development software, system requirements, and planning documentation. ▪ Guide and oversee the development and implementation of SE processes. ▪ Document as-is and to-be Cybersecurity enterprise architectures. ▪ Provide system testing assistance in the development of Test Evaluation Master Plan (TEMP) and other related program documentation. ▪ Analyze test results and make recommendations based on test results. ▪ Provide oversight of software configuration and management processes. **Requirements:** ▪ The candidate should have solid experience supporting Cyber systems, especially as related to systems requirement analysis and deconstruction of high-level requirements into measurable system requirements for development and integration teams. **Desired Experience:** ▪ Experience supporting cybersecurity operations activities and best practices, is a strong plus. ▪ The ideal candidate would be familiar with the customer's Cybersecurity organization.

Job Description	Exp. Level	Summary
SE6 CPPM Senior Testing Engineer (Taleo 031723-1)	BS+20 or 24+ years or MS+18 or PhD+1	**Position Overview:** Support the Program Management Office (PMO) overseeing a large multi-organizational software development project. Provide General Systems engineering support including requirements definition, documentation, and integration support in the oversight of this ongoing development effort as well as providing support to the testing team validating the development work. Manage other systems engineers, as assigned. **Requirements:** ▪ A Bachelor's degree in Computer Science, Electrical Engineering, Systems Engineering, or a related discipline and at least 20 years of systems engineering experience. A Master's or PhD Degree may be substituted for two years of experience. Note: A High School Diploma or GED plus 24 years of systems engineering experience would also be acceptable. ▪ Position requires TS/SCI clearance with polygraph. ▪ Experience with GitLab. ▪ Knowledge and experience with containerization and DevOps platforms (Kubernetes preferred). ▪ Experience configuring and developing tests for automated testing in a DevOps platform and Continuous Integration/Continuous Delivery pipeline. **Desired Experience:** ▪ Experience in applying systems engineering and integration support to a large Agile/DevOps environment. ▪ Knowledge of SE Best practices and innovative approaches to applying those practices in a fast-paced ongoing software development environment. ▪ Solid application of SE throughout the lifecycle of a development effort. ▪ Experience configuring and developing tests for automated testing on DevOps projects of similar size and scope. ▪ Experience with test management system (TestLink) and test automation framework (Robot Framework).

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Job Description	Exp. Level	Summary
SE6 Midpoint and Cyber (Taleo 031023-1) HCS Resiliency Systems Engineer	BS+20 or 24+ years or MS+18 or PhD+18	**Position Overview:** This is a full-time position requiring 1880 hours of support per year; and work is performed at a customer location. As a Midpoint and Cyber Systems Engineer on our team you will be overseeing a large multi-organizational, cyber-related, sustainment and modernization project. The individual will provide General Systems engineering support including requirements definition, documentation, and integration support in the oversight of this ongoing development effort, along with strong analytical skills. **Requirements:** ▪ A Bachelor's degree in Computer Science, Electrical Engineering, Systems Engineering, or a related discipline and at least 20 years of systems engineering experience. A Master's or PhD Degree may be substituted for two years of experience. Note: A High School Diploma or GED plus 24 years of systems engineering experience would also be acceptable. ▪ Position requires TS/SCI clearance with polygraph. **Desired Experience:** ▪ Ability to perform as Project Lead. ▪ Ability to develop and maintain requirements. ▪ Ability to manage project schedules. ▪ Ability to review data flow and block diagrams. ▪ Ability to effectively communicate with Government leads along with Government partners. ▪ Experience with SIGINT is desired.

Job Description	Exp. Level	Summary
CPPM SE5 Crypto System Engineer (020123-3)	BS+15 or 19 years or MS+15	**Position Overview:** This is a full-time position requiring 1880 hours of support per year; and work is performed at a customer location. As a Cryptologic Systems Engineer on our team, you will support the Program Management Office (PMO) overseeing a large multi-organizational software development project. You will provide general systems engineering support including requirements definition, documentation, and integration support in the oversight of this ongoing development effort as well as providing support to the testing team validating the development work. **Requirements:** ▪ Experience with GitLab. ▪ Knowledge and experience with containerization and DevOps platforms (Kubernetes preferred). ▪ Experience configuring and developing tests for automated testing in a DevOps platform and Continuous Integration/Continuous Delivery pipeline. **Desired Experience:** ▪ Experience applying systems engineering and integration support to a large Agile/DevOps environment. ▪ Knowledge of SE Best Practices and innovative approaches to applying those practices in a fast-paced ongoing software development environment. ▪ Solid application of SE throughout the lifecycle of a development effort. ▪ Experience configuring and developing tests for automated testing on DevOps projects of similar size and scope. ▪ Experience with test management system (TestLink) and test automation framework (Robot Framework).

Job Description	Exp. Level	Summary
SE6 TechSIGINT Revitalization Developer (021623-3)	BS+20 or 24+ years or MS+18 or PhD+18	**Position Overview:** Apply systems engineering principles to TechSIGINT revitalization development and operational efforts including ELINT data management. You will assist the customer with system transition, data flow management, and identify gaps in the design and present them to the customer for disposition. In addition, you will become familiar with the current and future architectures of the systems and prepare documentation for leadership use. There is a need for Communications and Outreach skills for managing users' expectations, understanding training and architecture deficiencies, and prioritizing discrepancy and requirements efforts. Periodic briefings and reports may be required for customer/community interactions. **Requirements:** ■ Bachelor's degree or advanced degree in computer science, information systems, engineering, or other related discipline plus at least 20 years of systems engineering experience. A Master's degree or PhD may be substituted for two years of experience. A high school diploma or GED plus 24 years of systems engineering experience would also be acceptable. ■ Extensive experience with systems engineering processes that support planning, scheduling, and managing several simultaneous efforts in a wide range of technologies, but with special emphasis on TSMOD, ELINT and FISINT. ■ Position requires TS/SCI clearance with polygraph. **Desired Experience:** ■ Well-grounded in system engineering and architecture. ■ Experience in collaborating with peer organizations to overcome barriers to success and create shared solutions.

SE3 ITC-ITEL Systems Engineer (Taleo 071522-4)	BS+6 or 10+ years or MS+4	**Location:** Fort Washington, MD.
		Position Overview: This ITC-ITEL SE3 will provide support required to operate and maintain all hardware and software in compliance with established policies required by the customer for their production and training networks, as well as responsible for establishing and maintaining user accounts and help desk functions for staff and students. **Activities associated with this position include:** ▪ Manage system requirements and derived requirements to ensure the delivery of production systems that are compatible with the defined system architecture(s) Department of Defense Architecture Framework (DoDAF), Service-oriented Architecture (SOA), Secure the Enterprise/Secure the Network (STE/STN). ▪ Develop, understand, and implement an Information System Security Plan (ISSP) and secure the enterprise (STE) in accordance with computer security regulations, to include providing topologies and inventories. ▪ Maintain system documentation and configuration data for regulatory and audit purposes. ▪ Lead incident response for any breaches, intrusions, or theft. ▪ Assist with the development of system requirements, functional requirements, and allocation of the same to individual hardware, software, facility, and personnel components. ▪ Provide support for the dispatch system and hardware problems and remain involved in the resolution process. ▪ Optimize system operations and resource utilization; perform system capacity analysis and planning; develop and implement solutions. ▪ Analyze and resolve complex problems associated with server hardware, applications, and software integration. ▪ Perform market surveys/studies and provide recommendations for a new and improved software to enhance IT capabilities. ▪ Establish, maintain, and submit the annual Baseline Exception Request Plan for all IT equipment procurements. ▪ As required, submit appropriate paperwork and procurement of necessary items. ▪ Provide status reports on classified and unclassified network upgrades. **Requirements:** ▪ Position requires a TS/SCI clearance with full scope polygraph, No CCA **Desired Experience:** ▪ Microsoft Exchange 2013 and 2016; Microsoft Server 2012 and 2016; Secure the Network (STN) Standards; User Activity Monitoring (UAM); IBM Big Fix; MS SharePoint; MS Active Directory; MS Windows Desktop Computing; Remote Desktop Management; MS PowerShell Integrated Scripting Engine (ISE); MS Office (Outlook, Word, PowerPoint, Excel, Project, Access); Adobe Professional; Adobe Creative Cloud; Blackboard; Avaya phone systems; Cisco phone systems; Skype for business.

Job Description	Exp. Level	Summary
SE6 Auto Dissemination Support (042023-1)	BS+20 or 24+ years or MS+18 or PhD+18	**Position Overview:** Provide direct system engineering support to a government Technical Director. You will support the customer in modernizing the process by which auto-dissemination proposals are adjudicated for approval; and compile and review dissemination obligations stemming from law and policy, opinions from the client's general counsel, and prior adjudications. With this knowledge, you will help the client identify criteria by which auto dissemination proposals will be decided, including prohibitions by rule, allowances by rule, and standards of judgement that may be used to determine whether a proposal should be allowed when it is neither prohibited nor allowed by rule. The candidate will help the client define processes by which requestors may efficiently determine whether their proposal will be prohibited, allowed, or subject to adjudication. You will also create artifacts to assist requestors and adjudicators in understanding and performing their duties relative to the defined process. You will need to be able to understand/learn the data flows between systems; and learn how data is transformed, checked, and manipulated to support dissemination adjudicators in getting the information and artifacts needed to verify that the described controls and interfaces meet policy, oversight, and compliance requirements, as well as any requirements specifically levied by the adjudicating body. **Requirements:** ▪ Familiarity with intelligence community law and policy protecting U.S. persons. ▪ Process engineering and/or Lean Six Sigma experience. ▪ Systems engineering or development experience. ▪ This is a full-time position requiring 1880 hours of support per year. ▪ Position requires TS/SCI clearance with polygraph. **Desired Experience:** ▪ Familiarity with U.S. or international privacy and civil liberties law and policy. ▪ Operational SIGINT experience (i.e., CNO, NCSC and Analytics experience). ▪ Experience as a SIGINT analyst/reporter/auditor. ▪ Strong oral, written and interpersonal communications skills. ▪ Ability to work independently as well as within a team setting to complete assigned tasks within expected schedule to complete. ▪ Flexible/easily adaptable within a dynamic work environment. ▪ Should be comfortable guiding people without having influence over them.

Job Description	Exp. Level	Summary
SE6 Auto Dissemination Support (Taleo 032822-1)	BS+20 or 24+ years or MS+18 or PhD+18	**Position Overview:** Provide direct system engineering support to a government Technical Director. Support the customer in modernizing the process by which auto-dissemination proposals are adjudicated for approval. Candidate will compile and review dissemination obligations stemming from law and policy, opinions from the client's general counsel, and prior adjudications. With this knowledge, the candidate will help the client identify criteria by which auto dissemination proposals will be decided, including prohibitions by rule, allowances by rule, and standards of judgement that may be used to determine whether a proposal should be allowed when it is neither prohibited nor allowed by rule. The candidate will help the client define processes by which requestors may efficiently determine whether their proposal will be prohibited, allowed, or subject to adjudication. The candidate will create artifacts to assist requestors and adjudicators in understanding and performing their duties relative to the defined process. The candidate will need to be able to understand/learn the data flows between systems; and learn how data is transformed, checked, and manipulated to support dissemination adjudicators in getting the information and artifacts needed to verify that the described controls and interfaces meet policy, oversight, and compliance requirements, as well as any requirements specifically levied by the adjudicating body. **Requirements:** ▪ BS degree in Computer Science, Electrical Engineering, Systems Engineering, or a related discipline and at least 20 years of systems engineering experience. A Master's or PhD Degree may be substituted for two years of experience. *Note: High School Diploma or GED plus 24 years of systems engineering experience would also be acceptable.* ▪ Familiarity with intelligence community law and policy protecting U.S. persons. ▪ Process engineering and/or Lean Six Sigma experience. ▪ Systems engineering or development experience. ▪ This is a full-time position requiring 1880 hours of support per year. ▪ Position requires TS/SCI clearance with polygraph. **Desired Experience:** ▪ Familiarity with U.S. or international privacy and civil liberties law and policy. ▪ Operational SIGINT experience (i.e., CNO, NCSC and Analytics experience). ▪ Experience as a SIGINT analyst/reporter/auditor. ▪ Strong oral, written and interpersonal communications skills. ▪ Ability to work independently as well as within a team setting to complete assigned tasks within expected schedule to complete. ▪ Flexible/easily adaptable within a dynamic work environment. ▪ Should be comfortable guiding people without having influence over them.

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Job Description	Exp. Level	Summary
SE6 Geolocation (Taleo 032723-3)	BS+20 or 24+ years or MS+18 or PhD+18	**Position Overview:** Provide integration support (requirements, specification through dev) for cooperative geolocation systems. Represent customer's org at technical exchanges and will support the development of collaborative, cross organizational and cross system solutions. You must be able to work across military and Intelligence organization boundaries to build consensus on contentious technical issues that arise as the aid the creation of a suite of community cross geolocation specifications and implementations. You will apply your knowledge of RF signals and technology, especially modern wireless and cellular signals, radars, and computer-to-computer RF signals, to support the customer's development of a strategy for enhancing community geolocation capabilities. **Activities associated with this position include:** ▪ Drafting documents such as strategy papers, conops, systems requirements documentation, and other similar products. ▪ Participating in requirements elicitation and development through concept development of proposed technical solution(s); this will include evaluating proposed capabilities requirements and articulating both top and lower-level system reqs to achieve the desired end state. ▪ Participating in system architecture dev, interface and data exchange-standardization, and other technical coordination functions. ▪ Monitoring status of on-going projects and programs and making technical recommendations at decision points to government based on change requests, issues, and/or test results. ▪ Manage more junior systems engineers as assigned. **Requirements:** ▪ BS or advanced degree in computer science, info sys, engineering, or other related discipline plus at least 20 years of systems engineering experience. A Master's degree or PhD may be substituted for two years of experience. A high school diploma or GED plus 24 years of systems engineering experience would also be acceptable. ▪ Skilled technical process manager with strong written and oral communication skills. **Desired Experience:** ▪ Experience with system development and collaborative standards development and implementation. ▪ Understanding of modern cellular and wireless communications protocols especially in the context of locating those signals. ▪ Knowledgeable of a variety of radio signal geolocation techniques such as angle of arrival/direction finding, time and frequency difference of arrival, received power, and phase difference of arrival. ▪ Experience with Military Service and Intelligence Community SIGINT collection and geolocation systems. ▪ Knowledge of Airborne (or All Domain) Overhead Cooperative Operations (AOCO) programs.

Job Description	Exp. Level	Summary
Systems Engineer 2	BS+6	**Position Overview:** Analyze complex local and wide area network systems, including planning, designing, evaluating, and configuring operating systems and protocol suites for virtualized and containerized systems. Resolve difficult interoperability problems to obtain operation across host, hypervisor, and guest nodes. Load and configure cloud servers and vendor (e.g., Cisco, Juniper) or white box routers and switches. Support the acquisition of hardware and software and subcontractor services. Act as a technical project leader or provide work leadership to junior employees, as needed. **Requirements:** ▪ 8 years of experience providing technical support for the engineering and testing of complex software and hardware systems in the communication field. ▪ Experience with network planning for telecommunications switches. ▪ Experience with conducting integration and system level testing of telecommunications systems or platforms. **Desired Experience:** ▪ Experience with Kubernetes. ▪ Experience with Cisco, Juniper, or equivalent networking equipment. ▪ Experience with VMWare, QEMU, KVM, or Docker. ▪ Experience with Linux or OpenStack. ▪ Knowledge of telephony and telecommunication. ▪ Knowledge of networking services. ▪ Knowledge of software defined networking. ▪ Cisco CCNA or equivalent preferred. ▪ RHCSA preferred.

Job Description	Exp. Level	Summary
Embedded Developer 2 (ED2)	8+ years	**Position Overview:** Analyze complex local and wide area network systems, including planning, designing, evaluating, and configuring operating systems and protocol suites for virtualized and containerized systems. Resolve difficult interoperability problems to obtain operation across host, hypervisor, and guest nodes. Load and configure cloud servers and vendor (e.g., Cisco, Juniper) or white box routers and switches. Support the acquisition of hardware and software and subcontractor services. Act as a technical project leader or provide work leadership to junior employees, as needed. **Requirements:** ■ 8 years of experience providing technical support for the engineering and testing of complex software and hardware systems in the communication field. ■ Experience with network planning for telecommunications switches. ■ Experience with conducting integration and system level testing of telecommunications systems or platforms. ■ Experience with Kubernetes. ■ Experience with Cisco, Juniper, or equivalent networking equipment. ■ Experience with VMWare, QEMU, KVM, or Docker. ■ Experience with Linux or OpenStack. ■ Knowledge of telephony and telecommunication. ■ Knowledge of networking services. ■ Knowledge of software defined networking. ■ Cisco CCNA or equivalent preferred. ■ RHCSA preferred.

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Job Description	Exp. Level	Summary
Systems Engineer 3 (SE3)	BS+20 or 25+ years	**Position Overview:** Experience with business process management systems and related process engineering efforts, including process-specific modeling/simulation. Expertise in strategic planning, project/task leadership, and organizational restructuring/transformation. Provide business process and systems level documentation and analysis to identify opportunities for leveraging Business Process Management System (BPMS) solutions to automate and improve human-based workflows. Apply descriptive, predictive, and prescriptive analytics to identify and implement system, process, and mission metrics that provide awareness of data as it flows through end-to-end organizational processes. Experience with various programming languages (e.g., Java, JavaScript) and database development is preferred so that the analyst can implement basic workflows in the IBM BPM tool using out-of-the-box functionality. **Requirements:** ▪ Twenty (20) years of experience with business process management systems and tools, or related process and systems engineering efforts. ▪ Familiarity with software development and various software development lifecycle models. ▪ Proficient with Visio, Excel, PowerPoint, and SharePoint. ▪ Excellent communication skills and demeanor with customers. ▪ Experience facilitating discussions to elicit information at the appropriate level of detail for a given purpose. ▪ Familiarity with documenting business processes. ▪ Familiarity with developing functional requirements and business rules. ▪ Degree in Systems Engineering, Computer Science, Engineering, or related field. ▪ Five (5) years of additional SE experience may be substituted for a bachelor's degree. ▪ TS/SCI clearance with a polygraph. ▪ Bachelor's degree. **Desired Experience:** ▪ Experience with vulnerability analysis and exploit development ▪ Knowledge of telecommunications architecture and protocols.

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Job Description	Exp. Level	Summary
Application Dev 2/3	BS+5 or 10+ years	**Position Overview:** Must have minimum of six (6) years of software/system development work experience, with technical expertise in two (2) or more of the following areas: System Requirements Analysis, Software System Design, Software System Development, Software System Integration, Software System Testing. **Requirements:** • Experience with Python or Perl. • Experience with Java development in Unix, Linux, or Windows environments. • RTOS experience. • Kernel knowledge of Unix and Linux. • Experience with TCP/IP protocol. • Understanding and knowledge of the customer and their mission. • Knowledge of common protocols such as TCP/IP, SDH/SONET, Ethernet. • Web development with knowledge of XML, php, mysql, ColdFusion or Apache. • Experience with reverse engineering and analysis of software. • Ability to recommend system solutions by comparing advantages and disadvantages of development alternatives. **5 or more years' experience in four or more of the following areas:** • Developing software applications in C, C++, or Java. • Design and conduct unit tests to enhance code coverage requirements. • Developing software applications for Unix, Linux, or Windows environments. • Support user development documentation. • Developing DLLs for the Windows environment. • RTOS experience. • Development on computer telephony platforms using computer telephony cards such as Dialogic. • Kernel knowledge of Unix (Solaris, HPUX, AIX) and Linux • Object-oriented design and programming. • Working knowledge of common protocols/standards such as TCP/IP, SNMP, H.323, X.25, 802.11, 802.16, SIP, IvIEGACO, or MGCP. • Web development, with proven knowledge of XML, php, mySQL, ColdFusion, or Apache. • Script writing using Perl, Python, Bourne shell, C shell, or other proprietary scripting languages. • Database experience with Sybase, Oracle, or Microsoft. Reverse engineering and analysis of software. • Bit-level data analysis. • Experience with Java development in Unix, Linux or Windows environments.

Job Description	Exp. Level	Summary
Application Dev 2 or 3	BS+5 or 10+ years	**Position Overview:** Must have a minimum of six (6) years of software/system development work experience, with technical expertise in two (2) or more of the following areas: System Requirements Analysis, Software System Design, Software System Development, Software System Integration, Software System Testing. **Requirements:** ▪ MUST HAVE FRONT END GUI EXPERIENCE. ▪ Experience with Python or Perl. ▪ Experience with Java development in Unix, Linux, or Windows environments. ▪ RTOS experience. ▪ Kernel knowledge of Unix and Linux. ▪ Experience with TCP/IP protocol. ▪ Understanding and knowledge of the customer and their mission. ▪ Knowledge of common protocols such as TCP/IP, SDH/SONET, Ethernet. ▪ Web development with knowledge of XML, php, mysql, ColdFusion or Apache. ▪ Experience with reverse engineering and analysis of software. ▪ Ability to recommend system solutions by comparing advantages and disadvantages of development alternatives. **5 or more years' experience in four or more of the following areas:** ▪ Developing software applications in C, C++, or Java. ▪ Design and conduct unit tests to enhance code coverage requirements. ▪ Developing software applications for Unix, Linux, or Windows environments. ▪ Support user development documentation. ▪ Developing DLLs for the Windows environment. ▪ RTOS experience. ▪ Development on computer telephony platforms using computer telephony cards such as Dialogic. ▪ Kernel knowledge of Unix (Solaris, HPUX, AIX) and Linux. ▪ Object-oriented design and programming. ▪ Working knowledge of common protocols/standards such as TCP/IP, SNMP, H.323, X.25, 802.11, 802.16, SIP, IvIEGACO, or MGCP. ▪ Web development, with proven knowledge of XML, php, mySQL, ColdFusion, or Apache. ▪ Script writing using Perl, Python, Bourne shell, C shell, or other proprietary scripting languages. ▪ Database experience with Sybase, Oracle, or Microsoft. ▪ Reverse engineering and analysis of software. ▪ Bit-level data analysis. ▪ Experience with Java development in Unix, Linux, or Windows environments.

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Job Description	Exp. Level	Summary
Test Engineer 2/3	BS+5 or 10+ years	**Position Overview:** Bachelor's degree in Math, Science, Engineering, Statistics, Engineering Management, or related discipline from an accredited college or university. Four years of additional test engineering experience may be substituted for Bachelor's degree. 5 years developing and running automatic testing. Strong experience in C, Python. **Requirements:** ■ Minimum of 5 years of experience in Software System Testing. ■ Experience in GIT, GitLab, Docker. ■ Experience with continuous integration tools (i.e., Jenkins, QuickBuild, etc.). ■ Experience setting up/maintaining test infrastructures for Continuous Integration/Continuous Delivery. ■ Experience with Configuration Management version control systems (i.e., SVN, GIT, etc.). ■ Knowledge of Google Test and GitLab runners. ■ Experience with Agile software issues tracking tools (i.e., JIRA, Trac, Redmine, etc.) ■ Ability to work independently and explore options. ■ Experience in the development of test documentation such as test plans, procedures, test reports. ■ Ability to work as part of a team environment.

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Job Description	Exp. Level	Summary

Test Engineer (multiple levels)	BS+5 or 10+ years	**Position Overview:**
		Bachelor's degree in Math, Science, Engineering, Statistics, Engineering Management, or related discipline from an accredited college or university. Four () years of additional test engineering experience may be substituted for Bachelor's degree.
		
		Requirements:
		▪ Experience with Telecommunications equipment.
		▪ Minimum of 5 years of experience in Software System Testing.
		▪ Outstanding interpersonal skills with a customer service mentality.
		▪ Experience with continuous integration tools (i.e., Jenkins, QuickBuild, etc.).
		▪ Ability to design, oversee, and perform software testing on various applications.
		▪ Experience with Configuration Management version control systems (i.e., SVN, GIT, etc.).
		▪ Experience with software development and various software development lifecycle models.
		▪ Experience with Agile software issues tracking tools (i.e., JIRA, Trac, Redmine, etc.).
		▪ Excellent documentation skills.
		▪ Ability to work independently and explore options.
		▪ Knowledge of automated testing is a plus.
		▪ Experience in the development of test documentation such as test plans, procedures, test reports.
		▪ Minimum of 5 years of experience in Software System Testing.
		▪ Ability to work as part of a team environment.
		▪ Experience in three (3) or more of the following:
		  ▪ Project schedules and estimates
		  ▪ Requirements definition and analysis
		  ▪ Requirements traceability
		  ▪ Requirements verification and validation
		  ▪ Risk management

Build System Engineer CAP2/SD2, CAP3, SD3	6+ years	**Position Overview:** The candidate will join a team of developers working on unique build systems. **Requirements:** ▪ 6+ years of experience in C/C++ or Python. ▪ Experience with Linker/Loaders and build systems. ▪ Experience with source code analysis and intermediate representations/Intermediate languages.

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Job Description	Exp. Level	Summary
Network Protocol Dev CAP2/CAP3, SD2/SD3	6+ years	**Position Overview:** The candidate will join a team of developers working on a large-scale modular framework, specifically Network Protocols development tasking. They will support the group's overall mission to design, develop, test, and maintain this framework. **Requirements:** • 6+ years of experience in C/C++ or Python. • In-depth understanding of network protocols is a must. • Familiarity with modern software engineering concepts. • Knowledge of common CNO techniques. • Ability to gather requirements and design a solution with minimal oversight. • Ability to present a development plan and forecast deliverables.
Test Engineer (TE3)		**Position Overview:** The candidate will be required to perform testing and validation of software to ensure it meets all measured criteria, closely monitoring edge cases and errors during test. The candidate will be working as a team to support a larger organizational effort. **Requirements:** • In-depth experience in Testing and Evaluation (T&E) or Independent Verification and Validation (IV&V). • In-depth understanding of Computer Network Operations (CNO) tradecraft and effects caused by CNO capabilities. • Experience with Python (pytest and/or unittest modules preferred). • Experience creating virtual environments. • Ability to perform system level testing, evaluation, and related activities. • Ability to create, update, and maintain technical documentation. • Ability to perform basic software installation and operation tasks. • Ability to document test results including successes, failures, and deficiencies. • Experience communicating both orally and written on testing status to technical leads and customers. • Experience testing applications with and without graphical user interfaces. • TRAVEL MAY BE REQUIRED UP TO 1 week per quarter. • Position requires DoD 8570 IAT Level 2 or higher.
Jr. Test Engineer (SD1)		**Position Overview:** The candidate will be required to perform testing and validation of software to ensure it meets all measured criteria, closely monitoring edge cases and errors during test. The candidate will be working as a team to support a larger organizational effort. **Requirements:** • Candidate will support existing engineers in various testing tasks to ensure software meets all measured criteria. • Familiarity with Python and Scripting.

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Job Description	Exp. Level	Summary
Windows CNO Developer (CAP2/CAP3, SD2/SD3)	6+ years	**Position Overview:** The candidate will join a team of developers working on various Windows capabilities. They will support the group's overall mission to design, develop, test, and maintain CNO capabilities. **Requirements:** ▪ 6+ years of experience programming in C/C++ and Python. ▪ Experience with kernel and driver development. ▪ In-depth understanding of network protocols. ▪ In-depth understanding of OS internals (including runtime linker/loader, object file formats, file system internals, access control, data structures, etc.). ▪ Experience with IDA Pro, Ghidra, or similar binary analysis tool a plus. ▪ Familiarity with modern software engineering concepts. ▪ Knowledge of common CNO techniques. ▪ Ability to gather requirements and design a solution with minimal oversight. ▪ Ability to present a development plan and forecast deliverables.
SW Reverse Engineer (CAP3)	8+ years	**Position Overview:** The candidate will be responsible for performing reverse engineer research on highly complex software applications. This research will involve static and dynamic analysis including reverse engineering and kernel debugging. Research results will be encapsulated in written reports and/or software tools. The candidate will be working alongside some of the world's best reverse engineers, learning unique skills and exploring challenging problems every day. **Requirements:** ▪ 8+ (CAP3) years of development experience with Assembly, C/C++, or Python. ▪ Knowledge of common binary executable formats (PE, ELF, etc.). ▪ Experience with IDA Pro, Ghidra, or similar binary analysis tool. ▪ Experience with analyzing user-mode binaries and kernel-mode drivers. ▪ Experience with Wireshark and network protocols.

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Job Description	Exp. Level	Summary
Mobile Vulnerability Researcher (CAP2/CAP3/CAP4)		**Position Overview:** The candidate will be working on a new team performing vulnerability research against mobile technologies. The candidate must be familiar with the latest techniques in vulnerability research and demonstrate their ability to follow best practices. The candidate must be extremely detail oriented when documenting their research. Often, the candidate will be required to write code in C, Python, and Assembly to demonstrate the ability to control the flaws. **Requirements:** • Understanding of Linux Kernel and device drivers. • Experience reading and writing assembly (ARM). • Extensive experience with debuggers (ADB, GDB, etc.). • Strong C, Python, and ASM development experience. • Working as a team with researchers and developers.
Software Application Researcher (CAP2/CAP3, SD2/SD#)		**Position Overview:** The candidate will be working independently as a Software Researcher to identify flaws in software. Additionally, the candidate must be familiar with the latest techniques in vulnerability research and demonstrate their ability to follow best practices. The candidate must be extremely detail oriented when documenting their research. Often, the candidate will be required to write code in C, Python, and Assembly to demonstrate the ability to control the flaws. **Requirements:** • Understanding of OS Internals (any major OS). • Experience reading and writing assembly (x86/x64, ARM, MIPS, etc.). • Extensive experience with debuggers (WinDBG, GDB, ADB, BDI, etc.). • Experience with dynamic and static binary analysis, fuzzing techniques, and source code auditing. • Strong C, Python, and ASM development experience. • Demonstrated ability to self-drive research tasking. • Motivated to learn complex systems. • Working as a team with researchers and developers.
Embedded System Researcher SD3, CAP3, or CAP4 SME)		**Position Overview:** An ideal candidate will have exposure to embedded systems. Your candidate will need to be able to lead others in tasks, coordinate with customers on existing work, and lead complex problems through to completion. Their experience needs to be focused on embedded systems with demonstrated, proven experience in ARM, PPC, MIPS, and other embedded assembly languages. **Requirements:** • Experience researching and developing in an embedded systems world (VxWorks, ELDK, or similar). • Experience with Python and C development. • Experience with debugging tools (GDB). • Experience reading and writing Assembly. • Demonstrated ability to self-drive research tasking.

Job Description	Exp. Level	Summary
Embedded System Researcher (CAP1/CAP2, SD1/SD2)		**Position Overview:** An ideal candidate will have exposure to embedded systems. Your candidate will need to be able to lead others in tasks, coordinate with customers on existing work, and lead complex problems through to completion. Their experience needs to be focused on embedded systems with demonstrated, proven experience in ARM, PPC, MIPS, and other embedded assembly languages. **Requirements:** ▪ Experience researching and developing in an embedded systems world (VxWorks, ELDK, or similar). ▪ Experience with Python and C development. ▪ Experience with debugging tools (GDB). ▪ Experience reading and writing Assembly. ▪ Demonstrated ability to self-drive research tasking.
Sr. Software Engineer SWE3	BS+20 or 24+ years	**Position Overview:** Strong enterprise JAVA development skills with SPRINGBOOTStrong enterprise JAVA development skills with SPRINGBOOT.
Sr. Software Engineer SWE3	BS+20 or 24+ years	**Position Overview:** Elastic Knowledge - Recent and extensive experience with Spring Cloud DataFlow to assist with next generation activities to create microservices for our product in support of streaming and batch data pipelines. Experience with Java Tools, microservices, orchestration.
VR1 VR2 VR3	BS+2	**Requirements:** ▪ Experience programming in Assembly, C, C#, C++, Perl, or Python with a focus on an understanding of system interactions with these libraries vs. production-style environments. ▪ Use of Unix/Windows system API's. ▪ Understanding of virtual function tables in C++. ▪ Heap allocation strategies and protections. ▪ Experience with very large software projects a plus. ▪ Kernel programming experience (WDK / Unix||Linux) a significant plus. ▪ Hardware/Software reverse engineering, which often includes the use of tools (e.g., IDA Pro, Ghidra, Binary Ninja) to identify abstract concepts about the code flow of an application. ▪ For Hardware reverse engineering, candidates expected to have performed analysis of embedded devices, focusing primarily on identifying the software stack and points of entry to the hardware (e.g., not interested in FPGA reverse engineering, or other circuit reverse engineering). ▪ Candidates who can merge low-level knowledge about compilation of C/C++ code with a nuanced understanding of system design to identify and exploit common vulnerability patterns. ▪ Candidates should be comfortable with, at a minimum, user-mode stack-based buffer overflows, and heap-based exploitation strategies.

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Job Description	Exp. Level	Summary
Android CNO Developer *(Senior Engineer or Cyber Engineering)*		**Location:** Customer Facility; Dulles, VA **Position Overview:** Cyber Offense and Defense Experts (CODEX) is in need of smart, motivated and self-driven Android Exploit Developers to join our team to solve real-time cyber challenges. Looking for individuals who enjoy working on a mission-focused team that works on site with our end users in their spaces. **Requirements:** ▪ Design custom software tools and techniques for the Android platform. ▪ Responsible for end-to-end design and development of custom software. ▪ Diagnose and debug issues using both COTS and GOTS tools. ▪ Firm understanding of how networks work. ▪ Develop documentation pertinent to operating and supporting developed software and techniques. ▪ Mentor and lead junior-level developers to accomplish mission objectives. ▪ Solve real-time cyber challenges. **Mandatory Skills:** ▪ 3 years developing, testing, and debugging Python and C. ▪ Experience developing Android software in C. ▪ Working with version control software such as git. **Desired Experience:** ▪ Understanding of CNE techniques and methodologies on Android and Linux. ▪ ARM Assembly programming. ▪ Reverse engineering ARM binaries. ▪ Developing proof-of-concept exploit software.

Job Description	Exp. Level	Summary
Apple iOS CNO Developer *(Senior Engineer or Cyber Engineering)*		**Location:** Government Facility **Position Overview:** Cyber Offense and Defense Experts (CODEX) is in need of smart, motivated and self-driven Apple iOS CNO Developers to join our team to solve real-time cyber challenges. Looking for individuals who enjoy working on a mission-focused team that works on site with our end users in their spaces. **Mandatory Skills:** • 3 years developing, testing, and debugging Python and C. • Objective-C, Swift or C++ programming. • Working with version control software such as git. **Requirements:** • Design custom software tools and techniques for the Apple iOS platform. • Responsible for end-to-end design and development of custom software. • Diagnose and debug issues using both COTS and GOTS tools. • Firm understanding of how networks work. • Develop documentation pertinent to operating and supporting developed software and techniques. • Mentor and lead junior-level developers to accomplish mission objectives. • Solve real-time cyber challenges. **Desired Experience:** • Understanding of CNE techniques and methodologies on MacOS or iOS. • Reverse engineering iOS or MacOS apps in ARM or X86. • Developing proof-of-concept exploit software. • Ability to work independently and as part of a team in a fast-paced environment with ever-changing requirements.

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Job Description	Exp. Level	Summary
Systems Administrator/Data Transfer Officer *(Principal Systems Administrator)*	BS+8 or +8 Years Military Exp.	**Location:** Customer Facility, McLean VA **Position Overview:** Immediate need for a Systems Administrator/Data Transfer Officer to be a member of the Sustainment and Maintenance IT team that is the Londinium II Program. The Londinium II Program supports a moderately sized customer network comprised of Linux (80%), Windows (20%), virtualization, storage, network, and on-premise data center hardware. The Sustainment and Maintenance team offers rewarding opportunities to think outside the box in order to deliver innovative and sustainable IT environments to our customers. The system administrators work both independently and as a member of an integrated product team supporting a wide variety of basic and complex computing and network configurations and must have functional Linux and Windows experience. **Mandatory Skills:** ▪ Bachelor's Degree in computer science, information systems, engineering, mathematics, or equivalent experience, and eight (8) years of relevant experience (see below bullets). Eight (8) years of equivalent military training and/or experience in an information technology field will be considered in lieu of a degree. ▪ Five (5) years or more of total intelligence community relevant work experience as a system administrator. ▪ Seven (7) years' experience as a system administrator ▪ Must be a US Citizen with an active TS/SCI clearance with poly and be crossover eligible. **Requirements:** Specific duties and responsibilities of the System Administrator/Data Transfer Officer may include, but are not limited to: ▪ Performing frequent data transfers from external media onto the network. ▪ Update virus definitions weekly on data transfer systems. ▪ Update standalone systems operating system and software. ▪ Responding to day-to-day trouble tickets, including diagnosing and troubleshooting hardware, software, and account issues. ▪ Installing, configuring, updating and removing system hardware (servers, workstations, graphics cards, transceivers, network interface cards). ▪ Installing, configuring, and updating system and application software. ▪ Building, configuring, and deploying Linux and Windows systems, including multi-monitor installations. ▪ Creating and managing user/group accounts in Active Directory. ▪ Implementing up-to-date system policies and procedures. ▪ Utilize Git and Puppet to perform automatic build configuration of Linux systems. ▪ Utilize SCCM to perform automatic software installation on Windows systems.

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Job Description	Exp. Level	Summary
Senior Satellite Engineer - SME		**Location:** Customer Facility, McLean VA **Position Overview:** Serves as SME for satellite systems development. Expected to communicate and present technical information at an understandable level for non-technical client staff. Identifies strengths and vulnerabilities of fabrication, testing, and operational processes. Understands all component systems down to space-qualified products such as StarTrackers. Reviews proposals, external contractor performance reports, and advises the client on best technical approach for given opportunity.
Chem/Mat - SME		**Location:** Customer Facility, McLean VA **Position Overview:** Subject matter expert familiar with polymer chemistry and/or composite materials. Provide analysis, assessment, reverse engineering, and vulnerability related to synthesis, forensics, analysis, material property measurements, and product application. **Requirements:** ▪ Excellent communication skills ▪ Team oriented ▪ Analytical ▪ Polymer knowledge in polyurethanes, polyacrylonitrile, aramids, etc. ▪ Well organized **Desired Experience:** ▪ Knowledge in composite resin systems, especially in filament winding applications.