

## **Program Checklist**

Cloud Computing Career Launch Program

### **P1. Program description including length of program in years and total hours (including split between classroom and worksite).**

In the past year, there were over 55,000 unique job postings for jobs in the Cloud Computing family in Washington State, and over 317,000 total jobs available, reflecting the high demand for Cloud Computing skillsets in Washington State.

The Cloud Computing Career Launch program recognizes this demand and creates pathways at multiple Washington State employers for students to earn a 2-year credential to prepare them for entry-level roles in Cloud Computing, including as Cloud Support Associates, Information Security Specialists, and Data Security Administrators

#### **Program length:**

90-105 Credit hours, depending on program of study, typically completed in 6 quarters of full time study, resulting in an AA or AAS-T degree.

320 hours of worksite time for a full time internship; 200-300 hours of worksite time for a part-time internship.

### **P2. Estimated number of hours per week at worksite and in classroom (this approach may shift throughout the program).**

**Classroom:** 15-20 credit hours per quarter

#### **Worksite:**

The Cloud Computing Career Launch program aims to provide 2 options for worksite training:

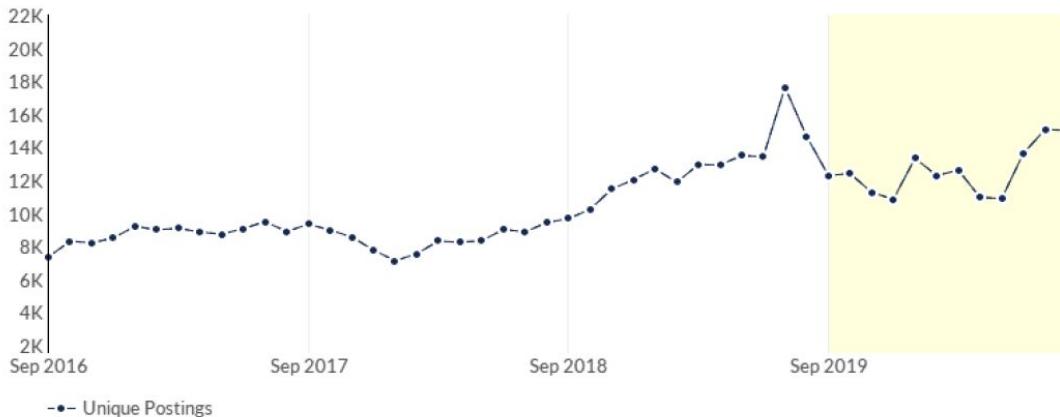
- Full-time during summer between 1st and second year: 40 hours per week for minimum 8 weeks
- Part-time during the school year: 10-15 hours per week for 2 quarters

### **P3. Demonstration of labor market demand for specified skills/career in local region**

According to EMSI Economic Modeling, there were 55,002 unique job postings for jobs in the Cloud Computing family in Washington State from September 2019-August 2020. 32% of the job postings required 1 year or less of experience.

Demand for cloud computing roles has increased significantly statewide in the past four years. In September 2016, there were 7,348 unique job postings made to advertise available roles in the cloud computing career field in Washington State. In August 2020, there were 15,026 unique job postings made.

### Unique Postings Trend



**Trends in unique job postings in the Cloud Computing career path in Washington State, September 2016-August 2020 (Source: EMSI Economic Modeling)**

**P4. Projected count of student enrollment, student completion, and anticipated employer participation for 5 years, post-pilot.**

The Cloud Computing Career Launch program pilot has an initial goal of supporting approximately 20 students in the full Career Launch program. Pacific Northwest National Laboratory (PNNL), King County IT, and Washington Technology Solutions (WaTech) are supporting the program, and are expecting to select interns via a competitive application and interview process. The final number of internships will vary depending on the budgetary authority provided to WaTech and King County IT by their respective financial management departments at the time of the internship.

There is significant opportunity to increase employer participation if the pilot is successful, adding both employers local to the participating colleges, and employers in other parts of the state. The program was developed in spring and summer 2020, during the peak of the COVID-19 pandemic. Several Washington State employers that have a high demand for cloud skills were unable given the volatile economic climate to commit to participating in the program, but they may be open to taking interns at a later date.

**P5. Concise description of development process to create the Career Launch program (e.g. who was involved, when, how was the program piloted, etc.)**

In Spring 2020, AWS Educate approached Career Connect Washington about bringing their Cloud Degree program to Washington State. Under the Cloud Degree program, AWS Educate collaborates with 2-year colleges to update and expand their existing computer science curriculum to meet industry standards in cloud computing. AWS Educate also provides free professional development to colleges to support their faculty in developing skills required to teach in the rapidly evolving cloud computing field.

AWS Educate has successfully mentored college systems such as State University of New York, Northern Virginia Community College, Texas State Technical College, and Miami Dade College in creating Cloud Degree programs, but this will be the first Cloud Degree program in Washington State.

AWS Educate and Career Connect Washington worked with the State Board of Community and Technical Colleges to connect with those colleges that were the most interested in bringing the Cloud Degree program to their campus, and had a sufficient basis in computer science to support the development of a Cloud Degree program. The final group of participating colleges were Bates Technical College, Whatcom Community College, Skagit Valley College, Columbia Basin College, Renton Technical College, Cascadia College, and Bellevue College.

Career Connect Washington, drawing on information from EMSI economic modeling, identified that there is a need for cloud computing roles in the public sector information technology departments across the state. These agencies are working to adapt legacy infrastructure to work in the cloud and to ensure state systems are defended from cybersecurity threats -- a challenge that has only grown as more of the state's public sector workforce works remotely during the COVID-19 pandemic.

Public sector IT departments struggle to attract high-quality cloud computing talent, as they compete with Washington's private sector technology firms for trained personnel. King County IT, Washington Technology Solutions (WaTech), and Pacific Northwest National Laboratory were therefore eager to partner with the 2-year colleges to develop the talent pipeline possible through the Career Launch program. Employers reviewed the AWS Educate Cloud Competency Framework, against which the curriculum for the program will be aligned, and agreed that students working toward these competencies would be good candidates for their internship and training programs.

**P6. Signed letter of endorsement from all relevant partners, stakeholders and regional networks (including employers, labor organizations, academic institutions, community-based organizations, individuals, and other relevant stakeholders in support of the proposed Career Launch program). Regional network endorsement preferred.**

See attached letters in appendix:

- **Education partners**
  - Dr. Lin Zhou, President, Bates Technical College
  - Dr. Kathie Hiyane-Brown, President, Whatcom Community College

- Dr. Thomas Keegan, President, Skagit Valley College
  - Michael Lee, Vice President for Instruction, Columbia Basin College
  - Dr. Kevin McCarthy, President, Renton Technical College
  - Dr. Eric Murray, President, Cascadia College
  - Ambassador Gary Locke, Interim President, Bellevue College
- **Employer partners**
    - King County Department of Information Technology
    - Washington Technology Solutions (WaTech)
    - Pacific Northwest National Laboratory
- **CCW Regional Network Partners**
    - Phyllis Harvey-Buschel, Washington Alliance for Better Schools
    - Debra Bowen, Washington State STEM Education Foundation
    - Michelle Judson, Northwest Washington STEM

**P7. Description of resources, supports, or other processes to recruit and support students from underserved backgrounds (e.g. including students of color, students from low income families, English language learners, students with disabilities, foster students, students experiencing homelessness, students from single parent homes, and other populations that face barriers to employment); or create an implementation plan to do so**

See appendix for an illustrative example of the services provided across the different participating colleges to support student populations facing barriers to opportunity.

### **Industry-Related Checklist**

**I-R1. Address of worksite(s) where Career Launch students will complete supervised training.**

Students who are accepted as interns with employer partners through the Career Launch may complete their internships in person or remotely, with prior arrangement with the employer.

#### **Pacific Northwest National Laboratory**

902 Battelle Boulevard  
Richland, WA

#### **Washington Technology Solutions (WaTech)**

1500 Jefferson St. SE, Olympia 98501

#### **King County Information Technology**

Chinook Building  
401 5th Ave. Suite 600  
Seattle, WA 98104

**I-R2. Hourly wage for Career Launch participants.**

Hourly minimum wage for Career Launch participants must be the Washington State minimum wage of \$13.50 or higher based on regional requirements.

**I-R3. List of entry-level positions and associated job descriptions for which a Career Launch student would be eligible for upon completion.**

The education partners participating in the Cloud Degree Career Launch are committed to aligning their computer science courses to the Cloud Computing Competency Framework developed by AWS Educate. Examples of entry-level positions for which a graduate of a program aligned to this framework should be qualified include:

[Cloud Support Associate, AWS](#)

[Cybersecurity Specialist, Junior Level, Leidos](#) (supporting US Navy, Bremerton)

[Network Technician, Spokane Transit Authority](#)

**I-R4. List of specific skills and competencies required for completion of Career Launch program, with demonstrated alignment to entry-level positions, job descriptions, and average local salary ranges.**

Students in the Cloud Degree Career Launch program will be learning competencies identified by AWS Educate as essential to performing at an entry level in the Cloud Computing job family that aligns with the program of study at the students' specific college. These competencies are based on industry research, including third-party labor market data and internal and external AWS job postings.

## Core Cloud Competencies



AWS Educate has outlined core Cloud Computing Competencies based on industry research (third-party labor market data and internal and external job postings) and employer validation through focus groups for specific cloud careers in a framework called the Cloud Competency Framework (CCF).

Level 1	Cloud Computing	Networking	Databases	Software Development	Cyber Security	Data and Analysis	Artificial Intelligence and Machine Learning	Impacts of Computing
Level 2 Competencies	Compute	Network Models & Communications	Database Design & Architecture	Algorithms	Risk Management	Data Collection & Storage	Cloud Systems Design	Cultural Implications
	Storage	Network Security	Database Administration	Data Structures	Policy, Regulations, & Compliance	Data Queries	ML Frameworks	Data Security and Privacy
	Services & Deployment Models	Troubleshooting, Monitoring & Logging	Database Queries & Manipulation	Programming / Coding	Access Control Management	Extract, Transform, & Load (ETL)	ML Algorithms	Innovations
	Architecture		Database Configuration	Logic and Design	Encryption	Data Models & Inferences	Train and Deploy Model	Business Impact
	Infrastructure Management				Shared Responsibility	Data Analysis	Probability and Statistics	Cyberethics
	Operating Systems				Disaster Recovery	Data Migration	Advanced Math	

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AWS Educate defines entry-level competency in these fields as someone who “Applies the competencies in simple situations that business inform decisions regarding cloud. Requires close and extensive guidance. Must make some decisions about his or her approach. Uses learned concepts to answer questions. Focus on application of skills and concepts, explaining the how and why. Tasks are scoped out and assigned. Deals with low level ambiguity. Handles risk and uncertainty with ease. Collaborates on the development of new procedures in response to change.”

As you will see in IR-7, the range of possible occupations that align to these entry-level competencies are broad, making it difficult to forecast a specific salary range. However, the entry-level position with the Spokane Transit Authority listed in IR-3 provided a starting salary of \$58,728 - \$78,702, depending on experience. EMSI Economic modelling estimated the median salary for a posted job in the cloud computing family in Washington from September 2019-August 2020 was approximately \$93,000 per year.

### **I-R5. Employer attests that Career Launch program is in compliance with required federal, state, and local regulations.**

Participating employer partners affirm that their internship programs meet all required federal, state, and local regulations.

### **I-R6. Employers will outline a student supervision and mentorship model.**

Each student in the Cloud Computing Career Launch program will be assigned one manager and every effort will be made to ensure interns are assigned to an employer in teams of two or larger, so they can benefit from the collaborative learning of a peer. The manager will provide feedback on work product and performance to the student participating in the Career Launch program. The manager will also provide advice and coaching regarding knowledge, skills, and abilities required for the specific role and at the company at large.

Students will also have the opportunity to interact across teams. Managers will provide the opportunity for students to complete a post-program evaluation for continual improvement of the program.

If students arise during the work-based learning experience, the student will also be able to reach out to a contact in Human Resources and at their college.

For students selected to participate in the internship at Pacific Northwest National Laboratory (PNNL), there is an additional opportunity to apply to be a part of the Department of Energy's Community College Internship program. This could afford them additional mentorship opportunities and enrichment activities with PNNL scientists.

**I-R7. Description of common career pathway(s) beginning with entry-level position specified with demonstration of likely salary growth over specified time period.**

AWS Educate provides the following career path examples for individuals with training aligned to the cloud competency framework. As you see, the range of possible occupations that align to these entry-level competencies are broad, making it difficult to forecast a specific salary range. However, the entry-level position with the Spokane Transit Authority listed in IR-3 provided a starting salary of \$58,728 - \$78,702, depending on experience.

EMSI Economic modelling estimated the median salary for a posted job in the cloud computing family in Washington from September 2019-August 2020 was approximately \$93,000 per year, with salaries exceeding \$220,000 per year for experienced engineers.



		Professional Domains				
		Cloud Computing	Architecture	Software Development	Data Analytics/ Artificial Intelligence & Machine Learning	Operations & Security
Proficiency Level	Foundational	<ul style="list-style-type: none"> <li>- Lead Development Rep</li> <li>- Demand Gen Rep</li> <li>- Lead Development Rep</li> <li>- Program Manager</li> <li>- Project Manager</li> <li>- Technical Sales Account Executive</li> <li>- Technical Customer Service Associate (CSA)</li> <li>- Business Analyst</li> <li>- Scrum Master</li> <li>- Program Manager</li> </ul>				
	Entry Level		<ul style="list-style-type: none"> <li>- Cloud Support Associate</li> <li>- Technical Support Associate</li> <li>- Technical Analyst</li> <li>- Network Technician</li> <li>- Data Center Operations</li> <li>- IT Support Associate</li> <li>- Cloud Consultant</li> </ul>	<ul style="list-style-type: none"> <li>- Application Developer</li> <li>- Web Developer</li> <li>- Junior Software Engineer</li> <li>- Mobile App Developer</li> </ul>	<ul style="list-style-type: none"> <li>- Data Integration Specialist</li> <li>- Data Analyst Intern</li> <li>- Business Intelligence Architect</li> <li>- Database Administrator</li> <li>- Data Collection Specialist</li> </ul>	<ul style="list-style-type: none"> <li>- Information Security Specialist</li> <li>- Data Security Administrator</li> </ul>
	Intermediate		<ul style="list-style-type: none"> <li>- Cloud Support Engineer</li> <li>- Solutions Architect Associate</li> <li>- Systems Engineer</li> <li>- Enterprise Architect</li> <li>- Technical Lead</li> <li>- Technical Architect</li> <li>- IT Consultant</li> <li>- Network Engineer</li> <li>- Network Architect</li> </ul>	<ul style="list-style-type: none"> <li>- Software Development Engineer</li> <li>- Cloud Developer Software</li> <li>- Development Engineer Manager</li> </ul>	<ul style="list-style-type: none"> <li>- Data Analyst</li> <li>- Data Engineer</li> <li>- Data Architect</li> <li>- Research Analyst</li> </ul>	<ul style="list-style-type: none"> <li>- DevOps Engineer</li> <li>- Cyber Security Engineer</li> <li>- IT Quality Assurance Analyst</li> </ul>
	Advanced		<ul style="list-style-type: none"> <li>- Solutions Architect Professional</li> <li>- Chief Technical Officer</li> </ul>	<ul style="list-style-type: none"> <li>- Sr. Software Development Engineer</li> </ul>	<ul style="list-style-type: none"> <li>- Data Scientist</li> <li>- Machine Learning Engineer</li> </ul>	<ul style="list-style-type: none"> <li>- Sr. Dev Ops Engineer</li> </ul>

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**I-R8. Demonstrated competency alignment with relevant professional standards for specified entry-level positions when applicable.**

There is not one set of specific industry standards required for entry-level cloud positions (e.g. specific software competencies, licensures, etc.), as they vary based on the program of study and Cloud Computing job family that a student is pursuing. However, the competencies outlined in I-R4 are based on the Cloud Competency Framework developed using third-party



labor market data and the review of over 1000 different job postings. It has been validated through employer focus groups for specific cloud careers and is regularly updated by AWS Educate to reflect the latest industry standards.

I-R9. Signed letter from employers partners attesting that Career Launch completers will be ready for specified entry-level jobs, including an optional, non-binding commitment estimating number of Career Launch completers they plan to interview/hire over the first three years of the program.

Please see employer letters of support in the Appendix for their statements on the program.

#### Academic-Related Checklist

#### **A-R1. List of academic institution(s) providing career-aligned instruction for Career Launch program.**

<b>Institution</b>	<b>Participating Program of Study</b>
Bates Technical College	AAS Computer Networking Systems Technician
Whatcom College	AS Computer Information System
Skagit Valley College	AS Information Management & Data Science*
Columbia Basin College	AAS Cybersecurity
Renton Technical College	Computer Network Technology AAS/AAS-T
Bellevue College	AA/AAS-T, Network Services and Computer Operating Systems, Cloud Architecture & Services concentration
Cascadia College	Networking Infrastructure AAS-T

\*Skagit Valley College is in the process of creating its Information Management and Data Science program. It will begin accepting students in Fall 2021, at which time they will be able to be a full partner in the Career Launch program. The partnership with AWS Educate will ensure cloud skills are part of the program of study from the beginning.

**A-R2. Curriculum scope and sequence aligned to skills and competencies provided in employment checklist.**

See programs of study attached in appendix. Participating colleges are working with AWS Educate to expand the cloud skills offerings within each program of study. This may result in additional coursework being added, or creating additional cloud-related modules within existing programs of study. This collaboration will be ongoing as both the cloud field and the needs of employers expand.

**A-R3. Demonstration of student supports (e.g. mentoring, advising, financial aid, tutoring) available for Career Launch students enrolled in the course.**

As enrolled students of their participating college, all Cloud Computing Career Launch students will have access to mentoring, advising, financial aid, tutoring, behavioral and physical health, library, and technology services offered by their respective college. In the appendix, you can find an illustrative guide to the services offered across each campus.

The Cloud Computing Career Launch program builds on existing degree courses at the participating colleges, and therefore benefits from experienced faculty and administrative staff who can direct students to the necessary campus resources.

**A-R4. Number of postsecondary credits provided and / or credential earned upon completion of program.**

<b>Institution</b>	<b>Participating Program of Study</b>	<b>Credits offered</b>
Bates Technical College	Computer Networking Systems Technician	105
Whatcom College	Computer Information System	90-91
Skagit Valley College	Information Management & Data Science*	TBD*
Columbia Basin College	AAS Cybersecurity	90-91
Renton Technical College	Computer Network Technology AAS/AAS-T	92-104
Bellevue College	AA/AAS-T, Network Services and Computer Operating	90-93

	Systems, Cloud Architecture & Services concentration	
Cascadia College	Networking Infrastructure AAS-T	95

\*Skagit Valley College is in the process of creating its Information Management and Data Science program. It will begin accepting students in Fall 2021, at which time they will be able to be a full partner in the Career Launch program. The partnership with AWS Educate will ensure cloud skills are baked into the program of study from the beginning.

**A-R5. Demonstrated curricular alignment with relevant professional and / or academic standards associated with coursework and credential, when applicable.**

Participating colleges collaborate with AWS Educate to review existing curriculum, identify opportunities to align courses or add new courses with cloud computing skills, and assign faculty to professional development through the cloud degree program. This creates a pathway for curricular alignment with the AWS Educate Cloud Computing Framework

**A-R6. Details of potential for current or future partnerships and/or scalability of the program within and across sectors and/or geographic locations (e.g. articulation, degree pathways), when applicable**

Graduates of programs of study under the Cloud Computing Career Launch program are well positioned to scale their credentials into BAS or higher degrees in the same fields.

Institution	Participating Program of Study	Institution Offers a BAS in same field
Bates Technical College	Computer Networking Systems Technician	No, but exploring a BAS partnership with Green River College in Networking and Administration Security
Whatcom College	Computer Information System	Yes
Skagit Valley College	Information Management & Data Science*	TBD*
Columbia Basin College	AAS Cybersecurity	Yes

Renton Technical College	Computer Network Technology	Yes
Bellevue College	AA/AAS-T, Network Services and Computer Operating Systems, Cloud Architecture & Services concentration	Yes
Cascadia College	Networking Infrastructure AAS-T	Yes

Cloud computing skills are needed in every region of the state, and are used by almost every industry, so there is ample opportunity to scale and expand partnerships geographically and across industries.

\*Skagit Valley College, one of the founding partners of the Cloud program, is just one example of a computer science program that is being newly created to meet the demand for cloud-related skills like information systems management. Just before CCW submitted this application, Clark College also expressed interest in joining the Cloud Computing Career Launch, and could easily be added to an expansion class.

Appendix

- Support Services for Enrolled Students
- Job descriptions of entry-level positions
- Participating Programs of Study
- Academic letters of support
- Employer letters of support
- Network letters of Support

### Support Services for Enrolled Students

This list of support services is not intended to be exhaustive, but to provide insight into the variety of services students in the Career Launch program can expect to receive from their respective college.

Institution	Community Supports	Tutoring and Learning Supports	Disability Supports	Financial assistance
Bates Technical College	<a href="#">Early Learning Center</a> (childcare) <a href="#">Veterans Center</a>	<a href="#">Tutoring Services</a>	<a href="#">Disability Supports Services</a>	<a href="#">Bates Technical Foundation</a>  <a href="#">Financial Aid support</a>
Whatcom College	<a href="#">Intercultural Services</a>  <a href="#">LGBTQ student success initiative</a>  <a href="#">Undocumented Student support</a>	<a href="#">Tutoring and Learning Center</a>	<a href="#">Access and disability services</a>	<a href="#">Funding and support programs</a>
Skagit Valley College	<a href="#">Student Equity and Inclusion Services</a>  <a href="#">TRIO Support Services</a>  <a href="#">Veterans Outreach</a>	<a href="#">Tutoring services and Writing Center</a>	<a href="#">Disability Access Services</a>	<a href="#">Financial Aid</a>
Columbia Basin College	<a href="#">CAMP program (College Assistance Migrant Program)</a>  <a href="#">TRIO Support Services</a>  <a href="#">Veterans Education Services</a>	<a href="#">I-BEST (Integrated Basic Education and Skills Training)</a>  <a href="#">Academic Success Center</a>	<a href="#">Disability Support Services</a>	<a href="#">Financial Aid and Workforce Education Center</a>

	<a href="#">MESA</a>			
Renton Technical College	<a href="#">Veterans Services</a>  <a href="#">Learning Resource Center Food Pantry</a>	<a href="#">Learning Resource and Career Center</a>	<a href="#">Disability Resource Services</a>	<a href="#">Financial Aid and Scholarships</a>
Bellevue College	<a href="#">Multicultural Services</a>  <a href="#">Neurodiversity Navigators</a>  <a href="#">TRIO Student Support Services</a>  <a href="#">Early Learning Center (childcare)</a>	<a href="#">Academic Success Center</a>	<a href="#">Disability Resource Center</a>	<a href="#">Bellevue College Foundation Scholars</a>
Cascadia College	<a href="#">The Center for Culture, Inclusion, and Community</a>  <a href="#">Veterans Services</a>	<a href="#">The Bock Learning Center</a>	<a href="#">Disability Support Services</a>	<a href="#">Financial aid and scholarships</a>

## Entry-level opportunities in Cloud Computing in Washington

### Cloud Support Associate

AWS

Location: Herndon, VA; Dallas, TX; Portland, OR; Seattle, WA.

- Currently **enrolled in** or received a Bachelor's Degree in computer science, computer engineering, information technology, or related fields (or graduated less than six months ago).
- Experience with at least one functional scripting language (e.g., Perl, Python, Ruby, shell scripting)
- Knowledge of system, network, and OS.

Note: By applying to this position, your application will be considered for all locations we hire for in the United States including, but not limited to, Herndon, VA; Dallas, TX; Portland, OR; Seattle, WA.

Amazon Web Services (AWS) is the market leader and technology forerunner in the Cloud business. As a member of the AWS support team you will be at the forefront of this transformational technology, assisting a global list of companies and developers that are taking advantage of a growing set of services and features to run their mission-critical applications. As a cloud support engineer, you will act as the 'cloud ambassador' across all the cloud products, arming our customers with required tools and tactics to get the most out of their product and support investment.

Would you like to use the latest cloud computing technologies? Do you have an interest in helping customers understand application architectures and integration approaches? Are you familiar with best practices for applications, servers, and networks? Do you want to be part of a customer facing technology team helping to ensure the success of AWS as a leading technology organization?

If you fit the description, you could be the person we are looking for. We are a group of smart people, passionate about cloud computing, and believe that world-class support is critical to customer success. **WHAT CAN YOU EXPECT FROM A LIFE AT AWS?**

Each day will bring new and exciting challenges on the job while you:

- Learn and use groundbreaking technologies.
- Apply advanced troubleshooting techniques to provide unique solutions to our customers.
- Interact with leading engineers around the world.
- Partner with AWS teams to help reproduce and resolve customer issues.
- Leverage customer support experience to provide feedback with AWS teams on how to improve.
- Drive customer communication during critical events.
- Drive projects that improve support-related processes and our customers' technical support experience.



- Write tutorials, how-to videos, and other technical articles for the developer community.
- Work on critical, highly complex customer problems that may span multiple AWS services.

## Cyber Security Specialist, Junior level

### **N-Gen-NMCI program, Leidos team**

### **Supporting Intranet for U.S. Navy, Bremerton**

**Job Description:** The NGEN-NMCI program at Leidos is seeking a Cyber Security Specialist, Junior level to support efforts for NGEN-R; supporting the largest IT services program for the Navy. Under the Service Management, Integration, and Transport portion of NGEN-R, the Leidos team will deliver the core backbone of the Navy-Marine Corps Intranet, including cybersecurity services, network operations, service desk, and data transport. Ultimately, Leidos will support the Navy in unifying its shore-based networks and data management to improve capability and service while also saving significant dollars by focusing efforts under one enterprise network. In this role you will serve as a Cyber Security specialist; serving as a key team member, supporting the Project Manager. You will be expected to skills associated with the execution of information security management services; providing a broad range of information security activities and operations at an approved level of security, across the enterprise. Use your experience supporting a broad-range of programs associated with overall information assurance and cyber security support; inclusive of security configuration and management services, data protection, anti-virus, malware detection and protection, host-based and endpoint security solutions, and audit and accountability services to ensure outstanding performance. The work locations for this position may be in the following cities: Norfolk, VA Bremerton, WA Pearl Harbor, HI San Diego, CA Primary Responsibilities \* Operate all aspects of Information Systems (IS) data availability, integrity, authentication, confidentiality, and non-repudiation.

Work on a team supporting Network Interface and COI customers. Support network operations, installations and troubleshooting support as needed.

Implement and monitor security measures for communication systems, networks, and provide advice that systems and personnel adhere to established security standards and Governmental requirements for security on these systems.

Develop and execute Government approved security policies, plans, and procedures; implement data network security measures; operate and monitor network intrusion detection and forensic systems; conduct IS security incident handling; support Continuity of Operations Plan/Disaster Recovery (COOP/DR) plans, and perform certification of IS and networks.

Perform other information security duties including operation of Electronic Key Management System (EKMS) and maintenance of Public Key Infrastructure (PKI).

Operate Host Based Security System (HBSS), firewalls, Intrusion Prevention Systems (IPS), Intrusion Detection Systems (IDS), other point of presence security tools, Virtual Private Networks (VPNs), and related security operations.

**Basic Qualifications** \*: BS degree and less than 2 years of prior relevant experience **or High school Diploma or General Equivalency Diploma (GED) with a minimum of 2 years of experience** across a broad-range of programs with increasing responsibility in overall information assurance and cyber security

US Citizen and DOD Secret Clearance, clearable to TS/SCI

DoD 8570 IAT II Certification

Knowledge of Cisco Switching/Routing product line

Strong understanding and in-depth knowledge of IP network/subnet addressing \* Hands-on experience diagnosing network related issues

Familiarity with standard networking devices to include, but not limited to, CISCO IOS and Juniper OS.

Flexibility to work independently, with vendors, or in teams, sometimes across geographic regions and members with varying information security abilities

Working knowledge of DoD networking and IA policies and regulations

Demonstrated knowledge of NIST Information Technology Security Special Publications (SP) 800 series, with emphasis NIST SP 800-30, NIST 800-37, NIST 800-53a, NIST SP 800-61, NIST 800-171, DHS 4300A, CBP Handbook 1400-05D \* Experience working with Risk Management Framework (RMF)

Experience operating, maintaining and administrating the following:

network access control services

endpoint security detection and response services and solutions

host-based security detection and response services and solutions

data protection mechanisms using at rest and in flight management technologies

intrusion management services

Preferred Qualifications \* Previous work experience providing support to the NGEN-NMCI program is highly desired

Bachelor's Degree in Computer Science, MIS, Business, or related field, with 2+ years of prior relevant experience

Professional certifications (CCNA/P, JNCIA/P) \* IAT II qualified in accordance with DoD 8570

Working knowledge of Community of Interest (COI) configurations and implementations.

Training/Certifications: HBSS, Tenable Security Center, Redseal, McAfee Security Information and Event Manager (SIEM), PKI, IPS External Referral Bonus: - Potential for Telework: Clearance Level

Required: Travel: Scheduled Weekly Hours: 40 Shift: Requisition Category: Job Family: Security Architecture and Engineering

Leidos is a Fortune 500 ® information technology, engineering, and science solutions and services leader working to solve the world's toughest challenges in the defense, intelligence, homeland security, civil, and health markets. The company's 38,000 employees support vital missions for

government and commercial customers. Headquartered in Reston, Va., Leidos reported annual revenues of approximately \$11.09 billion for the fiscal year ended January 3, 2020. For more information, visit [www.Leidos.com](http://www.Leidos.com) .

## Network Technician

### Spokane Transit Authority

Spokane Transit is in the early stages of a dynamic 10-year plan called STA Moving Forward. The purpose of this plan is to maintain, improve, and expand transit services throughout Spokane County to meet the needs of our growing community. We are currently searching for a Network Technician to join our Information Services Department.

As a Network Technician you will provide tier one support as directed by the Senior Network Engineer. You will assist the Network Administrators and System Administrators in troubleshooting, analyzing, maintaining, and planning network infrastructure. You will replace faulty cables, power supplies, failed hard drives and other components. Using your knowledge of Cisco based LAN & WAN networks, you will you will maintain inventory of hardware, and install network switches, servers, and wireless access points. As you exhibit your ability to solve software and technical problems in a logical manner, your efforts will contribute to the success of Spokane Transit in providing safe, accessible, convenient, and efficient public transportation services to the Spokane region's neighborhoods, and businesses and activity centers.

#### YOU ARE

- A team player
- Respectful
- Accountable
- Neighborly
- Service-oriented
- Innovative
- Trained

#### YOU HAVE

- 1-2 years of experience providing tier 1 level network support
- Associate's degree in computer science, cybersecurity, or network security may substitute
- Experience within the Microsoft Domain environment
- Basic understanding of LAN/WAN networks and related protocols
- Outstanding diagnostic, problem solving, and analytical skills

#### YOU MIGHT HAVE

- Network+ certification
- Cisco CCT Routing and Switching certification

#### EXAMPLES OF DUTIES

- Provide help desk support on a rotating on call basis
- Perform monthly Microsoft Windows updates on servers
- Physically install network switches, servers, and wireless access points
- Patch network cables to switches and maintain cabling in network cabinets
- Create network documentation such as port lists and IP address assignments

- Create user accounts and perform other basic Active Directory tasks
- Assign static IP addresses to devices
- Assign permissions to network folders

[Click Here For Full Job Description](#)

#### WE HAVE

- COMPETITIVE SALARY AND GREAT BENEFITS!
- Salary range \$58,728 - \$78,702 DOE
- Robust medical plans with affordable monthly premiums
- Dental plan with affordable monthly premiums
- WA State Public Employee's Retirement System (PERS) defined benefit plan
- Health Reimbursement Arrangement (HRA) employer contribution of \$50/month
- Basic life and long-term disability insurance
- Competitive vacation & sick leave
- Free bus passes for employee and dependents
- Onsite workout facility
- Cell phone carrier discount
- Gym membership discount