

Computer Network Architects (15-1143)

Occupation description: Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network modeling, analysis, and planning. May also design network and computer security measures. May research and recommend network and data communications hardware and software. Excludes Information Security Analysts (15-1122), Network and Computer Systems Administrators (15-1142), and Computer Network Support Specialists (15-1152).

Employment and Job Openings

	Employment			Average annual openings		
	2016 estimate	2026 projection	Percent change	Labor force exits	Occupation transfers	Total
Alaska	62	62	0.0	1	3	4
United States	162,700	173,200	6.5	2,400	8,300	11,750

Job outlook

Alaska: Alaska's employment growth is low with low employment opportunities. [Read more.](#)

Wages ?

Wage data is not available.

Labor Force Indicators

2016 Worker Characteristics

Total workers	Nonresident workers	Percent nonresident	Percent age 45 plus	Percent age 50 plus
49	5	10.2	50.0	32.6

2016 Potential Supply

Qualified but working in another occupation	9
Currently employed in a lower paid occupation	5
UI claimants previously working in occupation	2

2016 ALEXsys Employment Data

Number of registrants	138
Number of job position postings	18
Ratio of registrants to job position postings	7.7

Typical Entry-level Education, Experience, and/or On-the-job Training

Education: Bachelor's degree

Work experience: More than 5 years

On-the-job training: None

Training Resources

Degree

Alaska Computer Business Solutions LLC (Anchorage)

CompTIA Network+	
CompTIA Security+	
Visio Level 1	

Degree

Central Texas College, Fort Richardson/Elmendorf AFB (Fort Richardson)

Information Technology	AAS
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Degree

Charter College, Anchorage (Anchorage)

Computer Networking Systems	AAS
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Degree

Embry-Riddle Aeronautical University (JBER)

Aviation Cybersecurity Management and Policy	Certificate
Cybersecurity Management & Policy	BS
Information Assurance	Certificate

Degree

University of Alaska Anchorage (Anchorage)

Cisco Certified Network Associate	OEC
Computer & Networking Technology	AAS
Computer & Networking Technology	CT1
Computer & Networking Technology	CT2
Technical Support	OEC
Telecom Elect & Computer Tech	AAS

Degree

University of Alaska Anchorage, Kodiak (Kodiak)

Computer Systems Technology	AAS
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Degree

University of Alaska Anchorage, Mat-Su (Palmer)

Cisco Certified Network Associate	OEC
Computer & Networking Technology	AAS
Computer Systems Technology	AAS

Telecom Elect & Computer Tech	AAS
Telecommunication & Electronic System	CT2
Degree	
University of Alaska Fairbanks (Fairbanks)	
Computer Engineering	BS
Information Technology Specialist	AAS
Degree	
University of Alaska Fairbanks, Bristol Bay (Dillingham)	
Information Technology Specialist	AAS
Information Technology Specialist	CT2
Degree	
University of Alaska Fairbanks, Chukchi (Kotzebue)	
Information Technology Specialist	AAS
Information Technology Specialist	CT2
Degree	
University of Alaska Fairbanks, CTC (Fairbanks)	
Information Technology Specialist	AAS
Information Technology Specialist	CT2
Degree	
University of Alaska Fairbanks, Kuskokwim (Bethel)	
Information Technology Specialist	AAS
Information Technology Specialist	CT2
Degree	
University of Alaska Fairbanks, Northwest (Nome)	
Information Technology Specialist	AAS
Information Technology Specialist	CT2
Degree	
University of Alaska Fairbanks, Rural College (Fairbanks)	
Information Technology Specialist	AAS
Information Technology Specialist	CT2
Degree	
University of Alaska Southeast, Juneau (Juneau)	
Network and System Administration	OEC
Network Technician	OEC

	Degree
University of Alaska Southeast, Ketchikan (Ketchikan)	
Network and System Administration	OEC
Network Technician	OEC
Networking Essentials	OEC

	Degree
University of Alaska Southeast, Sitka (Sitka)	
Network and System Administration	OEC
Network Technician	OEC

	Degree
Vocational Training and Resource Center (Juneau)	
Introduction to Visio Professional	

	Degree
Wayland Baptist University (Anchorage)	
Cyber Security	BAS

	Degree
WinCertification (Red Devil)	
Cisco: Cisco Certified Entry Networking Tech	
CompTIA: Network+ Technician	
CompTIA: Security+ Technician	
Juniper Router JNCIA	