

# Occupational Profile: Network & Computer Systems Administrators

## GENERAL OCCUPATION DESCRIPTION

Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet system or a segment of a network system. Maintain network hardware and software. Monitor network to ensure network availability to all system users and perform necessary maintenance to support network availability. May supervise other network support and client server specialists and plan, coordinate, and implement network security measures. Exclude "Computer Support Specialists".

Source: O\*NET online. <http://online.onetcenter.org>

## REQUIRED EDUCATION

As shown in the table to right, over 68% of interviewed employers reportedly require a four year college degree or more.

Required Education	
Percent of Employers Requiring HS Diploma or Less	2.18%
Percent of Employers Requiring 2-Year Degree or Equiv	29.49%
Percent of Employers Requiring BS Diploma or More	68.33%

Source: Bureau of Labor Statistics

## WAGES

Network & Computer Systems Administrator is considered a high-wage occupation, with excellent possibility for wage advancement with experience. Employers in Greater Phoenix and the State of Arizona generally pay less as compared with the overall United States.

Location	Pay Period	2005				
		10%	25%	Median	75%	90%
United States	Hourly	\$18.17	\$22.78	\$28.81	\$36.63	\$44.84
	Yearly	\$37,800	\$47,400	\$59,900	\$76,200	\$93,300
Greater Phoenix	Hourly	\$17.43	\$20.83	\$25.95	\$33.35	\$41.73
	Yearly	\$36,272	\$43,347	\$54,002	\$69,401	\$86,840
Arizona	Hourly	\$16.15	\$20.64	\$26.24	\$33.61	\$43.89
	Yearly	\$33,600	\$42,900	\$54,600	\$69,900	\$91,300

Source: Bureau of Labor Statistics

As shown in the table to right, a national comparison of wages for this occupation reveals Arizona ranks 30th in terms of median wages.

RANK	Location	Median Wage 2005	
		Hourly	Annual
1	New Jersey	\$33.33	\$69,300
2	New York	\$33.23	\$69,100
3	Massachusetts	\$32.75	\$68,100
4	Virginia	\$32.68	\$68,000
5	California	\$32.43	\$67,500
30	ARIZONA	\$26.24	\$54,600

Source: Bureau of Labor Statistics

The table below provides a comparison of wages by sub-industry for the Greater Phoenix region (2005). As shown, the main employment sector, "Credit Intermediation and Related Activities," generally pays more than other main employment sectors.

Wages by Industry: Greater Phoenix MSA (2005)	Rounded Employment	Mean Wage	10th Percentile Wage	25th Percentile Wage	Median Wage	75th Percentile Wage	90th Percentile Wage
Credit Intermediation and Related Activities	440	\$33.49	\$16.54	\$19.79	\$27.63	\$44.21	\$56.12
Professional, Scientific, and Technical Services	420	\$28.85	\$18.43	\$22.01	\$26.71	\$33.35	\$42.83
Internet Service Providers, Web Search Portals, and Data Processing Services	360	\$30.71	\$23.15	\$24.68	\$27.25	\$37.26	\$44.49
Merchant Wholesalers, Durable Goods	270	\$29.19	\$15.90	\$19.07	\$24.29	\$40.80	\$51.95
Educational Services	160	\$24.92	\$14.01	\$16.49	\$24.12	\$32.21	\$37.03
Computer and Electronic Product Manufacturing	150	\$33.18	\$17.10	\$25.98	\$31.64	\$39.58	\$51.47
Insurance Carriers and Related Activities	140	\$26.67	\$15.13	\$19.42	\$25.72	\$32.41	\$41.42
Management of Companies and Enterprises	70	\$29.25	\$22.72	\$25.41	\$29.47	\$32.85	\$34.91
Telecommunications	70	\$28.88	\$18.05	\$22.37	\$29.11	\$34.42	\$40.91
Administrative and Support Services	60	\$29.77	\$20.01	\$24.16	\$27.79	\$34.66	\$43.20
Electronics and Appliance Stores	50	\$28.76	\$16.96	\$24.48	\$28.65	\$34.18	\$39.86
Nonstore Retailers	50	\$25.10	\$15.95	\$18.30	\$24.08	\$29.76	\$38.34
Real Estate	50	\$25.09	\$14.69	\$16.53	\$23.26	\$29.20	\$38.88
Hospitals	40	\$31.51	\$15.28	\$19.65	\$25.62	\$33.96	\$58.36
Publishing Industries (except Internet)	30	\$27.63	\$14.74	\$18.13	\$28.86	\$33.82	\$40.04
Transportation Equipment Manufacturing	30	\$30.43	\$19.99	\$24.24	\$28.78	\$34.74	\$47.59

## EMPLOYMENT

As shown in the table below, this occupation has a projected 31% growth rate over 10 years (between 2003 and 2013) for the Greater Phoenix region. There are an average projected 129 job openings each year, comprised of 95 new jobs and 34 positions vacated by individuals leaving the field (due to retirement, death, career changes, or other reasons).

	10-YEAR CHANGE			AVERAGE ANNUAL		
	Employment		Percent Change	Job Openings	Growth	Separations
	2004	2014				
<b>United States</b>						
Network and computer systems administrators	278,400	385,200	38%	13,770	n/a	n/a
<b>Arizona</b>						
Network and computer systems administrators	3,920	5,600	43%	210	n/a	n/a
<b>Greater Phoenix</b>						
Network and computer systems administrators	3,059	4,008	31%	129	95	34

Source: Bureau of Labor Statistics

\*Job Openings refers to the average annual job openings due to growth and net replacement.

Source: Bureau of Labor Statistics

\*\*N/A is displayed in cases where data is not available or cannot be published because of federal data privacy standards.

An additional source of information regarding this occupation can be provided by analysis of employer survey data collected for the Maricopa County Community Colleges by the ERISS Corporation in 2004. As shown, the ERISS survey data shows a projected 1-year growth rate of 3%, which is comparable with the average of 3.1% per year reflected by the BLS data above.

Additionally, the ERISS data provides an indicator of yearly turnover for this occupation, which is reported to be moderate to high at 12%.

ERISS Occupational Survey Data (2004)			
Greater Phoenix	Growth	Turnover	Demand
Network & Computer Systems Administrators	3%	12%	15%

### Comparison of employment projections for top five regions for Network & Computer Systems Administrator

As shown in the table to right, a national comparison reveals the State of Arizona ranks 7th in terms of projected 10-year growth for this occupation (43%).

RANK	Location	Employment		Percent Change
		2004	2014	
1	Nevada	800	1,370	71%
2	Utah	2,050	3,260	59%
2	Colorado	6,380	10,120	59%
3	Idaho	790	1,220	55%
4	Arkansas	1,450	2,220	54%
5	Tennessee	3,870	5,650	46%
7	ARIZONA	3,920	5,600	43%

Source: Bureau of Labor Statistics

### Employment by Industry

The table below shows the industries that most commonly employ Network & Computer Systems Administrator, and the proportion of employment accounted for at the national level. As shown, "Computer systems design and related services" is the largest employer for this occupation (14.3%).

Percent of Employment Nationally by Industry	
Percent	Industry
14.3%	Computer systems design and related services
5.6%	Management of companies and enterprises
3.9%	Local government educational services
3.1%	Local government, excluding education and hospitals
3%	Wired telecommunications carriers
2.9%	State government educational services
2.8%	Data processing, hosting, and related services

Source: Bureau of Labor Statistics

**Geo-Location Overlay of Employers with 10 or More Employees that Potentially Employ Occupation (n = 204)**

