IT Job Openings

IL and Chicago – Q2 2014

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About this Summary

The online job posting data in this summary is from Burning Glass Technologies. When citing Burning Glass data use: Burning Glass Technologies Labor Insights. Other important information to note where applicable: time period, core IT occupations, location (e.g. US, Chicago MSA), etc.

The data highlighted in this summary was pulled July 2014 and primarily focuses on Q2 2014 data for **IL and the Chicago** metropolitan statistical area (MSA), i.e. the Chicago-Joliet-Naperville, IL-IN-WI MSA. Additionally, data highlights for the entire US are included. This information complements many other workforce-related research studies CompTIA produces (see Additional Resources).

For the purposes of this summary, core IT occupations include positions related to those listed in the following tables. This report excludes certain telecommunications occupations, such as positions responsible for installing or maintaining cellular towers. Additionally, this report excludes 'knowledge worker' type positions, such as technical writer and graphic designer.

Job posting data is a useful, but an imperfect proxy for job demand.

Not every posting translates to a new job; hiring firms may change their plans, post multiple times for the same job, hire internally, try different approaches to find the right candidate and so forth (see Notes area). Also, one ad may be posted for multiple openings.

Burning Glass Technologies Labor Insights addresses many of these issues, but not all.

Additionally, within a time period, there may be situations where a worker is hired, the person isn't the right fit and is let go, and a firm starts the process over again. In the aggregate there is single position, but using job posting data, it may appear there there 2 positions (see labor turnover data to gauge the frequency of this practice).

CompTIA recommends using job posting data in conjunction with BLS data to get a more complete picture of labor dynamics for a given occupation category

CompTIA is responsible for all content contained in this report. Any questions regarding the study should be directed to CompTIA Research & Market Intelligence staff at research@comptia.org.

Key Summary Points – U.S.

Job Openings

- During Q2 2014 there were 648,016 core IT job openings in the US, according to Burning Glass Technologies Labor Insights.

- In comparison to the entire US job market, there were 6,072,429 total openings for the same Q2 2014 time period.

- IT postings represent 11% of all job openings (up from 10% in Q1, 9% in Q4 & Q3 2013).

- IT postings have grown by 35% over the same Q2 last year. Note: not all postings translate to a hire. It's important to also consider net separations (job loss) and net hires (job gains) to fully understand the IT jobs landscape.

Employment / Unemployment

- According to the Bureau of Labor Statistics (BLS), the U.S. unemployment rate for June 2014 declined by 0.2 to 6.1 percent (6.3 percent in May).

- Compared to the national unemployment rate, the rate for computer related occupations remains low at 3.6 percent for June.

- In the month of May, an estimated 4.6 million job openings existed versus 9.8 million* unemployed people looking for work (9.5m in June). The hires rate (3.4%) and separations rate (3.2%) were essentially unchanged in May. Over the 12 months ending May 2014, hires totaled 55.3m & separations totaled 53.0m, yielding a net employment gain of 2.3m.

Number of US Core IT Job Openings by Quarter

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*Note: this excludes the segment of discouraged workers that have stopped looking for work and thereby not counted in official unemployment statistics.

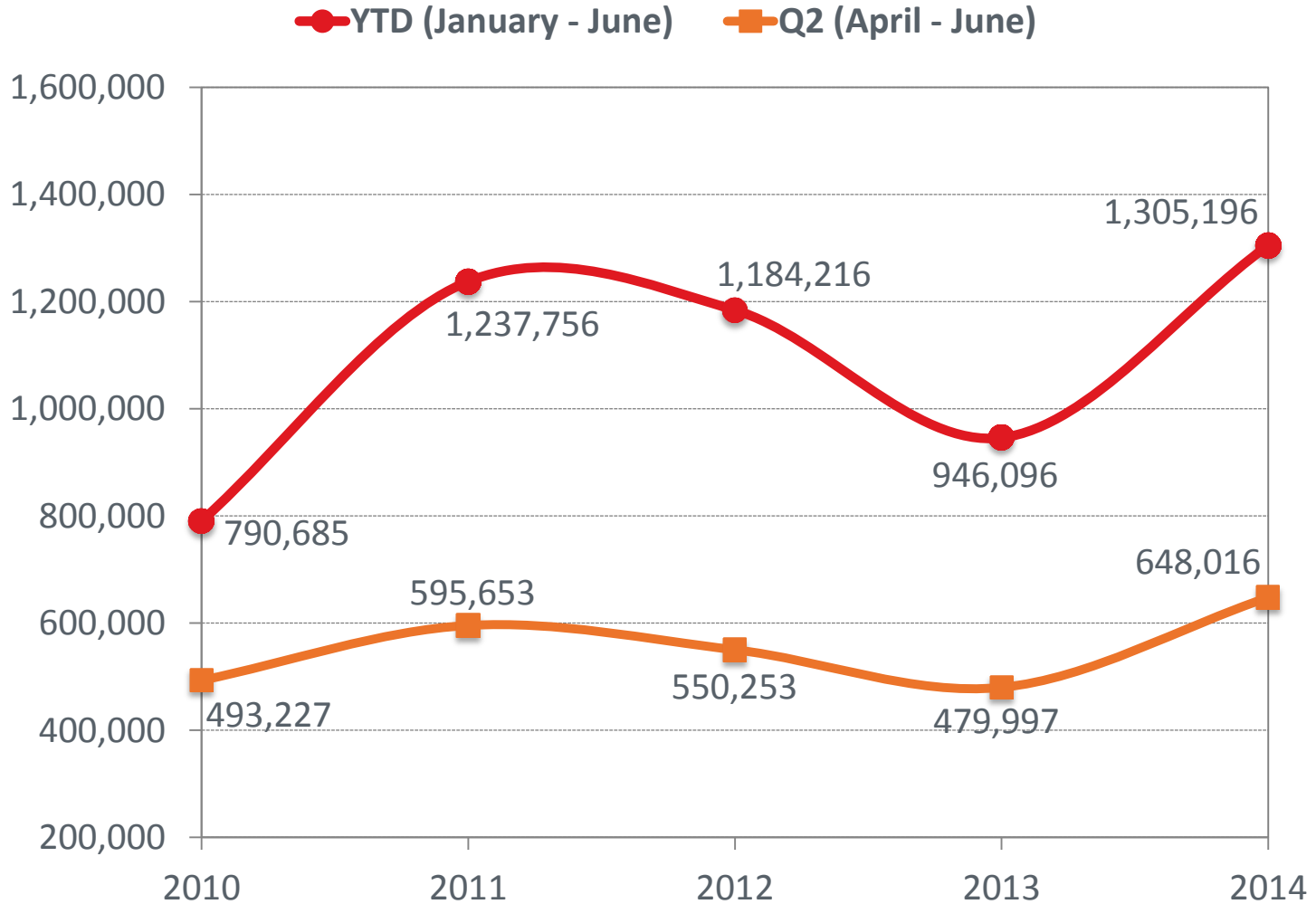Source: Burning Glass Technologies Labor Insights, July 2014

Section 2: US IT Job Postings

Number of US IT Job Openings – Quarter over Quarter

Current quarter vs. same quarter last year

ONET Code	Core IT Occupations	# Postings Q2 2014	# Postings Q2 2013	# Change	% Change
11-3021.00	Computer & Information Systems Managers	17,595	12,651	4,944	39%
15-1111.00	Computer & Information Research Scientists	4,117	3,001	1,116	37%
15-1121.00-.01	Computer Systems Analysts & Informatics Specialists	74,716	55,730	18,986	34%
15-1122.00	Information Security Analysts	16,947	12,094	4,853	40%
15-1131.00	Computer Programmers	23,021	16,836	6,185	37%
15-1132.00	Software Developers, Applications	187,450	139,223	48,227	35%
15-1133.00	Software Developers, Systems Software	12,086	9,718	2,368	24%
15-1134.00	Web Developers	27,531	18,406	9,125	50%
15-1141.00	Database Administrators	32,359	23,335	9,024	39%
15-1142.00	Network & Computer Systems Administrators	35,950	25,570	10,380	41%
15-1143.00-.01	Computer Network Architects & Telecom Engineers	15,335	11,733	3,602	31%
15-1151.00	Computer User Support Specialists	49,191	39,740	9,451	24%
15-1152.00	Computer Network Support Specialists	3,108	2,818	290	10%
15-1199.00 -.12	Computer Occupations, All Other	137,642	101,040	36,602	36%
17-2061.00	Computer Hardware Engineers	1,755	1,664	91	5%
49-2011.00	Computer, Automated Teller, & Office Machine Repairers	9,213	6,438	2,775	43%
	Total	**648,016**	**479,997**	**168,019**	**35%**

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Total Number of US IT Job Openings – Year over Year

Legend: YTD (January - June) | Q2 (April - June)

YTD (January - June) values:
- 2010: 790,685
- 2011: 1,237,756
- 2012: 1,184,216
- 2013: 946,096
- 2014: 1,305,196

Q2 (April - June) values:
- 2010: 493,227
- 2011: 595,653
- 2012: 550,253
- 2013: 479,997
- 2014: 648,016

Labor Force Turnover: New Hires & Separations

Starting Point Q1 2013

Ending Point Q1 2013

NET gain of +9,000 IT service/solution provider firm jobs

~1,753,000
Employed by IT service/solution provider firms* beginning of Q1 2013

*includes solution providers, VARs, MSPs, custom software developers, integrators and related; both technical and non-technical workers

~221,000
New Hires

~64,000, # of job postings made by these employers during period

~212,000
Separations
(voluntary + involuntary)

~1,762,000
Employed by IT services firms at end of Q1 2013

Labor Force Turnover Background and Context

- The U.S. labor force is dynamic with a constant state of hiring and separations. Workers may leave an employer for a new opportunity, geographic relocation, family needs, retirement, or any number of other reasons. Similarly, employers may layoff workers because of poor economic conditions, performance, structural changes in their product lines or any number of other reasons.

- During any given quarter, approximately 10-15% of the national labor force separates from their employer, either voluntarily or involuntarily. In a growing economy the number of new hires will exceed the number of separations as employers add new headcount. Conversely, in a contracting economy, separations exceed new hires.
    - Separations in the IT services sector (encompassing solution providers, MSPs, VARs, integrators, customer software development services and related) are about 24% lower than the national average. This may stem from IT professionals being more career oriented or being attracted to the higher than average wages. Industry sectors such as fast food, retail and hospitality tend to have have highest rates of labor turnover.

- The civilian labor force participation rate was unchanged at 62.8% in June 2014 (same rate for 3rd consecutive month).

- Total nonfarm payroll employment rose by 288,000 in June 2014. Over the past 3 months, job growth averaged 272,000 per month. In June, employment growth was widespread, led by gains in professional & business services, retail trade, food services & drinking places, and health care.

- Professional & business services added 67,000 jobs in June. With 8,000 jobs added in management & technical consulting and 7,000 jobs added in computer systems design & related services.

- As of May, there were 4.6m job openings, slightly up from 4.5m in April. The hires rate (3.4%) and separations rate (3.2%) were essentially unchanged in May. Over the 12 months ending May 2014, hires totaled 55.3m & separations totaled 53.0m, yielding a net employment gain of 2.3m.

Historical Number of US IT Job Openings – Year over Year

ONET Code	Core IT Occupations	# Postings 2013	# Postings 2012	# Postings 2011	# Postings 2010
11-3021.00	Computer & Information Systems Managers	59,873	51,626	56,939	41,317
15-1111.00	Computer & Information Research Scientists	13,233	11,486	11,104	8,532
15-1121.00-.01	Computer Systems Analysts & Informatics Specialists	282,601	259,277	293,623	231,845
15-1122.00	Information Security Analysts	54,588	49,801	52,786	38,044
15-1131.00	Computer Programmers	99,260	87,910	101,849	88,167
15-1132.00	Software Developers, Applications	601,881	645,630	689,162	566,386
15-1133.00	Software Developers, Systems Software	46,605	44,880	48,265	41,041
15-1134.00	Web Developers	87,183	92,750	98,083	89,627
15-1141.00	Database Administrators	117,010	108,449	124,032	104,434
15-1142.00	Network & Computer Systems Administrators	125,302	130,462	139,063	110,738
15-1143.00-.01	Computer Network Architects & Telecom Engineers	52,028	54,449	63,830	50,332
15-1151.00	Computer User Support Specialists	201,332	157,876	165,577	126,067
15-1152.00	Computer Network Support Specialists	11,675	13,507	14,172	9,886
15-1199.00 -.12	Computer Occupations, All Other	490,684	441,558	486,115	395,210
17-2061.00	Computer Hardware Engineers	7,286	8,015	8,737	7,000
49-2011.00	Computer, Automated Teller, & Office Machine Repairers	28,493	29,903	31,196	25,944
	Total	**2,279,034**	**2,187,579**	**2,384,533**	**1,934,570**

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Historical Total Number of US IT Job Openings – YoY
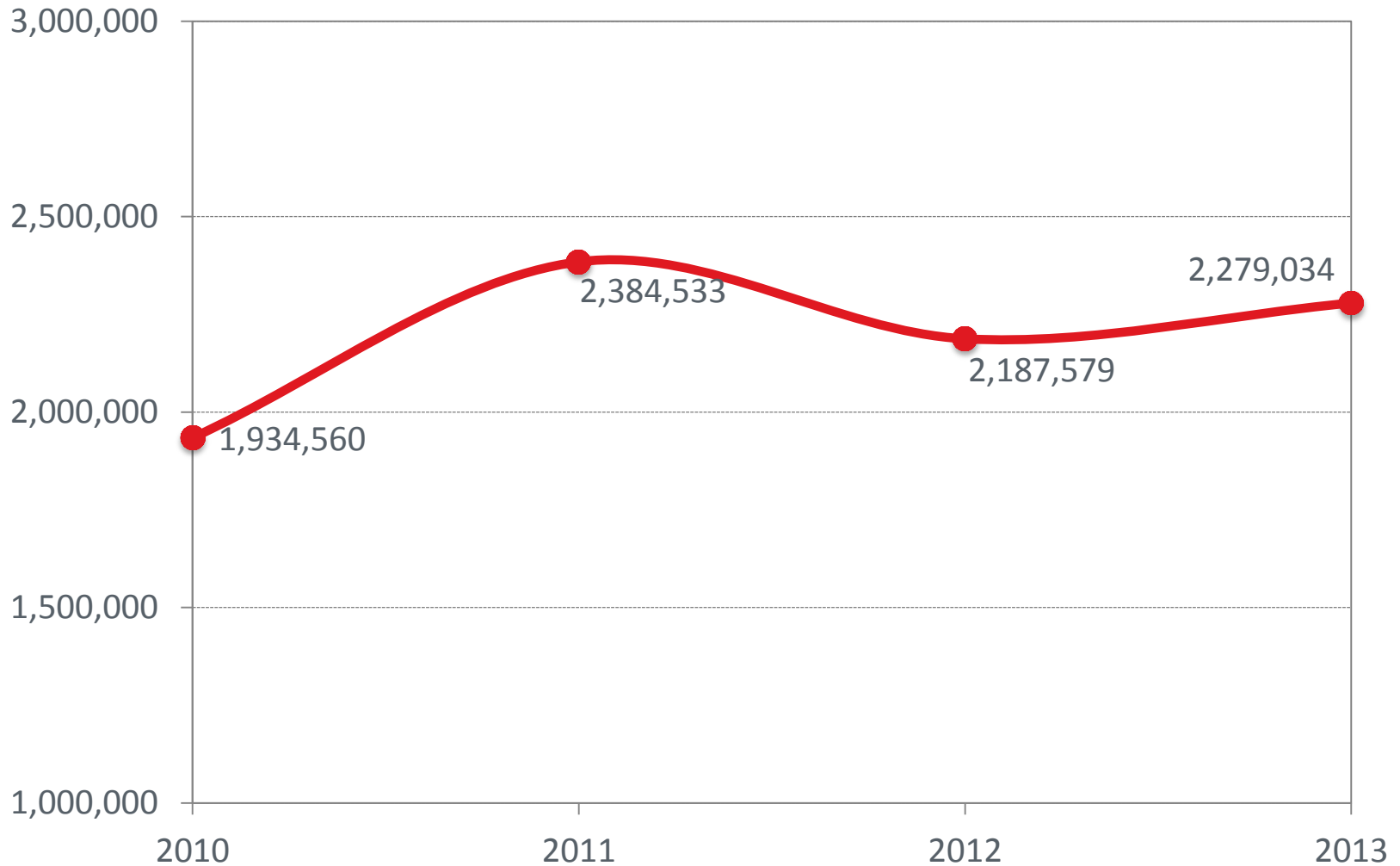
Top Locations for IT Job Postings – Q2 2014

Top States for Core IT Job Postings

1.	California
2.	Texas
3.	New York
4.	Illinois
5.	Virginia
6.	Massachusetts
7.	Georgia
8.	New Jersey
9.	Florida
10.	Washington

Top MSAs* for Core IT Job Postings

1.	New York-Northern New Jersey
2.	Washington-Arlington-Alexandria
3.	Chicago-Joliet-Naperville
4.	San Francisco-Oakland-Fremont
5.	Los Angeles-Long Beach-Santa Ana
6.	Boston-Cambridge-Quincy
7.	Dallas-Fort Worth-Arlington
8.	San Jose-Sunnyvale-Santa Clara
9.	Seattle-Tacoma-Bellevue
10.	Atlanta-Sandy Springs-Marietta

*MSA = Metropolitan Statistical Area

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Total Number of IT Job Openings in IL & Chicago

Q2 (April – June) Year over Year
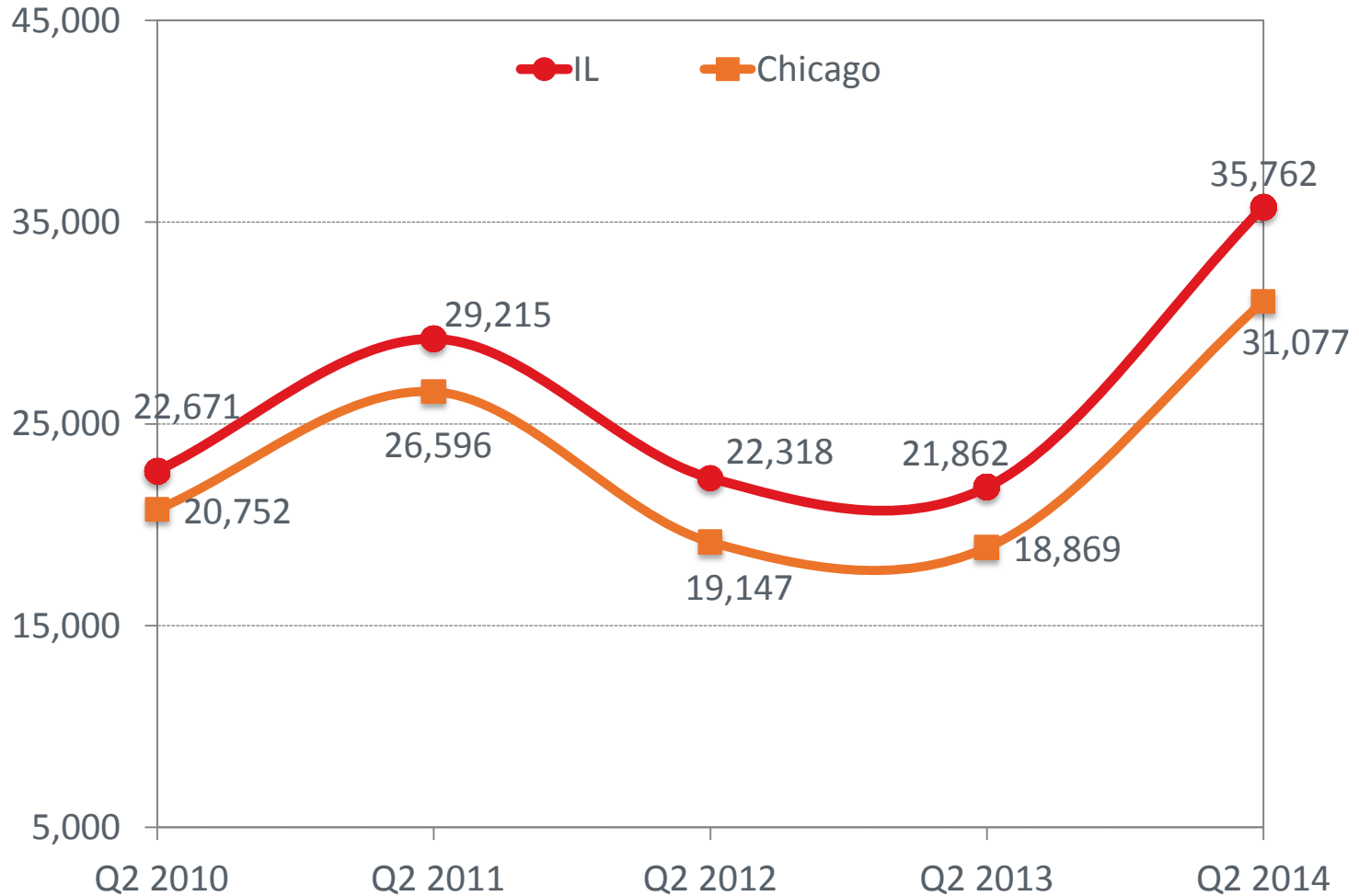
Source: Burning Glass Technologies Labor Insights, July 2014

Section 3: Illinois

Number of IT Job Openings – IL Quarter over Quarter

Current quarter vs. same quarter last year

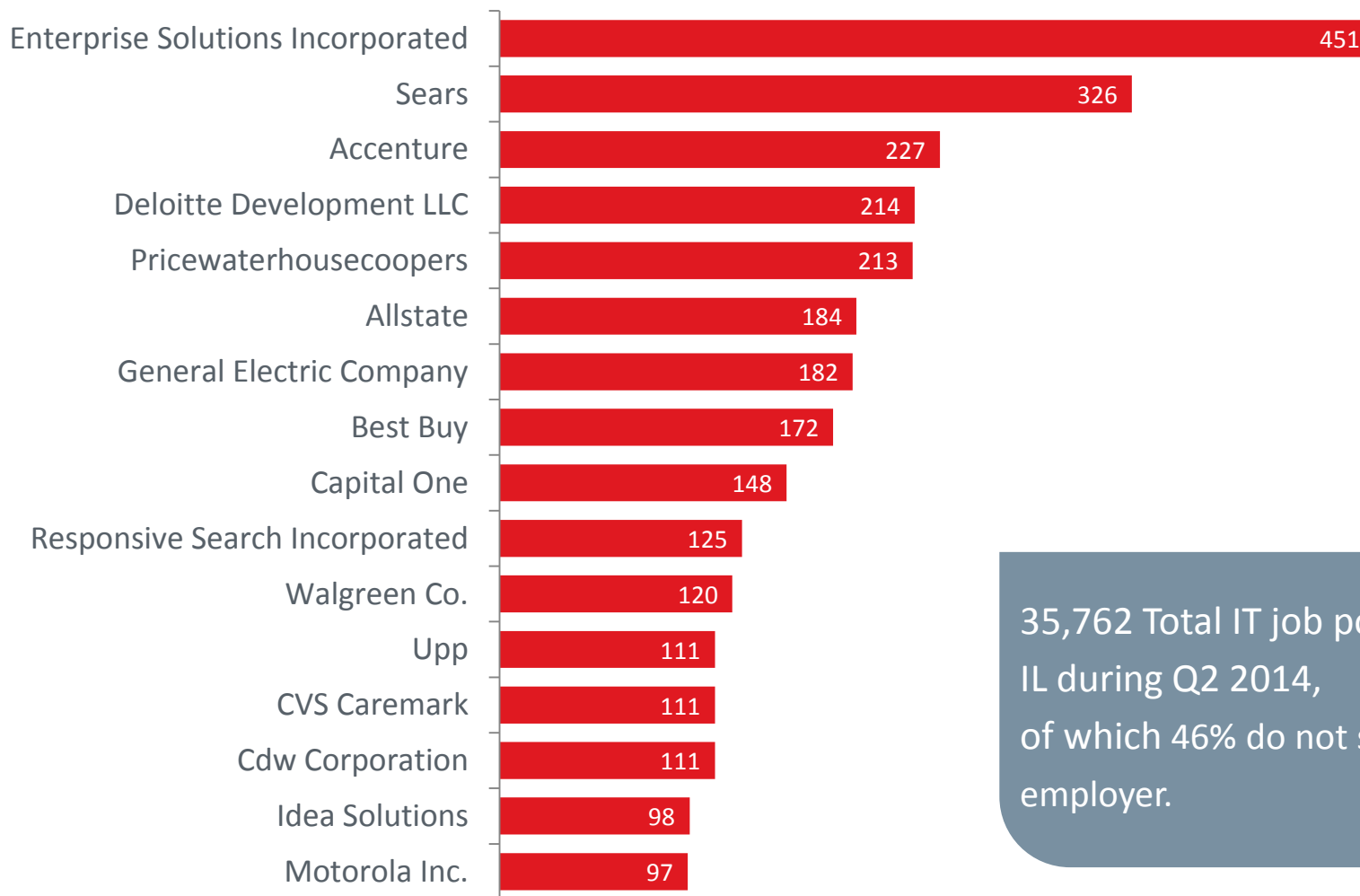| ONET Code	Core IT Occupations	# Postings Q2 2014	# Postings Q2 2013	# Change	% Change
11-3021.00	Computer & Information Systems Managers	1,060	656	404	62%
15-1111.00	Computer & Information Research Scientists	132	69	63	91%
15-1121.00-.01	Computer Systems Analysts & Informatics Specialists	4,703	2,787	1,916	69%
15-1122.00	Information Security Analysts	1,032	580	452	78%
15-1131.00	Computer Programmers	1,205	749	456	61%
15-1132.00	Software Developers, Applications	10,269	6,127	4,142	68%
15-1133.00	Software Developers, Systems Software	609	369	240	65%
15-1134.00	Web Developers	1,441	842	599	71%
15-1141.00	Database Administrators	1,666	1,034	632	61%
15-1142.00	Network & Computer Systems Administrators	1,665	1,013	652	64%
15-1143.00-.01	Computer Network Architects & Telecom Engineers	792	619	173	28%
15-1151.00	Computer User Support Specialists	2,703	1,846	857	46%
15-1152.00	Computer Network Support Specialists	135	127	8	6%
15-1199.00 -.12	Computer Occupations, All Other	7,942	4,778	3,164	66%
17-2061.00	Computer Hardware Engineers	53	24	29	121%
49-2011.00	Computer, Automated Teller, & Office Machine Repairers	355	242	113	47%
	Total	**35,762**	**21,862**	**13,900**	**64%**

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Employers with the Most IT Job Ads – IL Q2 2014

Employer	Job Ads
Enterprise Solutions Incorporated	451
Sears	326
Accenture	227
Deloitte Development LLC	214
Pricewaterhousecoopers	213
Allstate	184
General Electric Company	182
Best Buy	172
Capital One	148
Responsive Search Incorporated	125
Walgreen Co.	120
Upp	111
CVS Caremark	111
Cdw Corporation	111
Idea Solutions	98
Motorola Inc.	97

35,762 Total IT job postings in IL during Q2 2014,
of which 46% do not specify employer.

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Industries with the Most IT Job Ads – IL Q2 2014

Industry	IT Job Ads
Professional, Scientific, and Technical Services	2,443
Insurance Carriers and Related Activities	927
Administrative and Support Services	673
Educational Services	634
Credit Intermediation and Related Activities	628
Hospitals	416
General Merchandise Stores	406
Ambulatory Health Care Services	335
Health and Personal Care Stores	309
Computer and Electronic Product Manufacturing	304
Merchant Wholesalers, Durable Goods	260
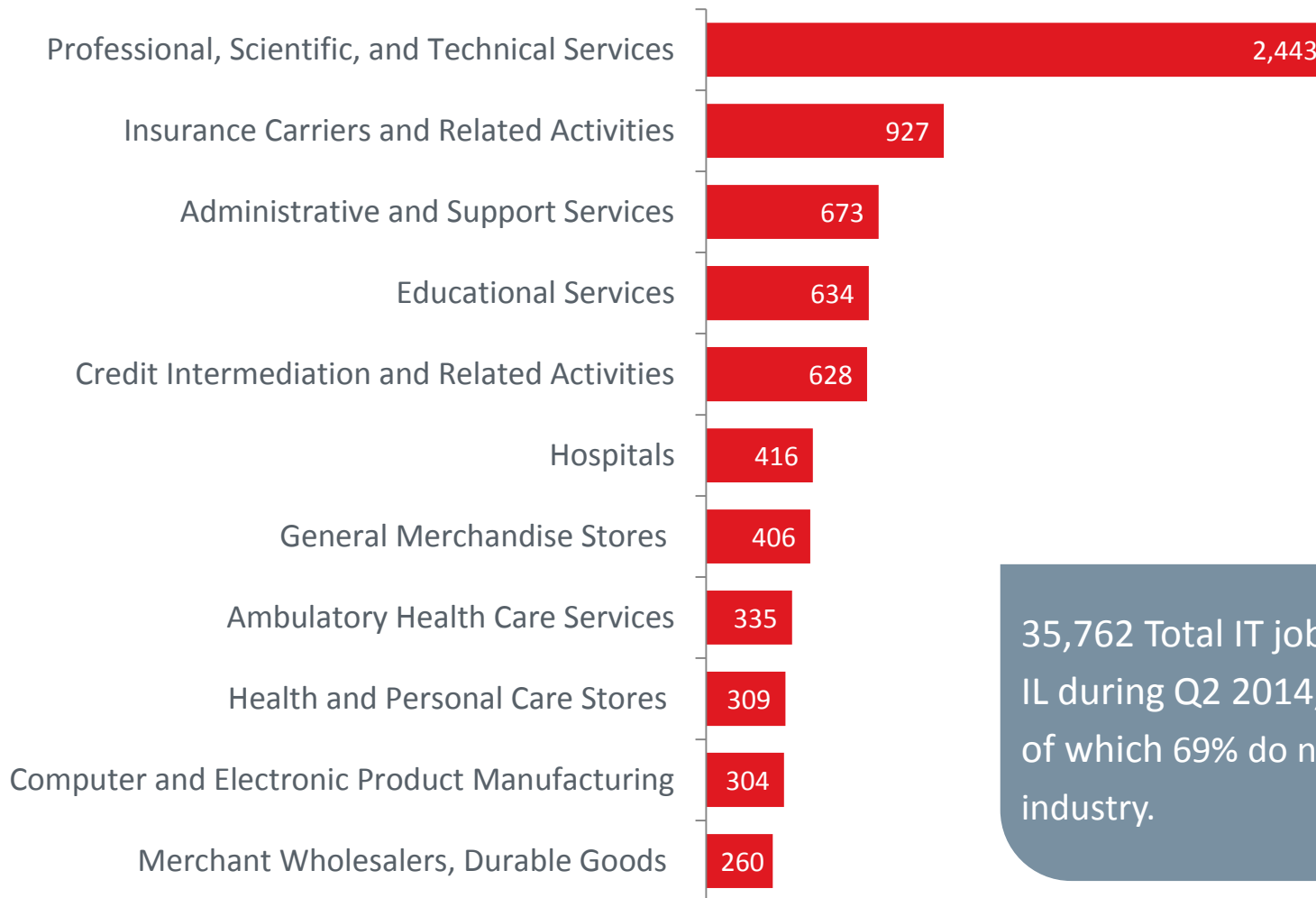
35,762 Total IT job postings in IL during Q2 2014, of which 69% do not specify industry.

Source: Burning Glass Technologies Labor Insights, July 2014

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Top Skills Cited in IT Job Postings – IL Q2 2014

Top Skills Listed in IT Job Postings

1.	SQL
2.	JAVA
3.	Oracle
4.	JavaScript
5.	LINUX
6.	.NET Programming
7.	Microsoft C#
8.	UNIX
9.	Business Process
10.	SQL Server

35,762 IL IT job postings in Q2 2014, of which 17% do not specify skills.

Top Skill Clusters in IT Job Postings

1.	Software & Programming
2.	Common: Communication & Coordination
3.	Common: Business Environment
4.	Common: Problem Solving
5.	IT: Programming, Development & Engineering
6.	IT: Database & Data Warehousing
7.	IT: Business Intelligence
8.	Common: Project & Process Flow
9.	IT: Web Design & Technologies
10.	IT: Network Administration & Security

35,762 IL IT job postings in Q2 2014, of which 17% do not specify skill clusters.

Top Titles Cited in IT Job Postings – IL Q2 2014

Top Job Titles Listed in IT Job Postings

|	
1.	Software Engineer
2.	Java Software Developer
3.	Network Engineer
4.	.Net Developer
5.	Systems Engineer
6.	Web Developer
7.	Business Analyst
8.	Application Developer
9.	Systems Administrator
10.	Quality Assurance Analyst

35,762 IL IT job postings in Q2 2014.

Top Job Titles in Network Administration & Security Skill Cluster

1.	Network Engineer
2.	Systems Engineer
3.	Systems Administrator
4.	Java Software Developer
5.	Network Administrator
6.	Security Engineer
7.	Software Engineer
8.	Solutions Architect
9.	Network Security Engineer
10.	Application Analyst

7,129 IL IT job postings in Q2 2014 within the IT: Network Admin. & Security skill cluster.

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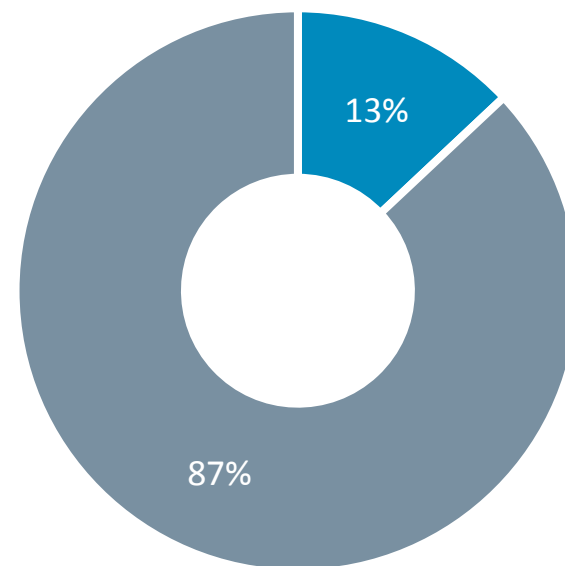# Job Postings with Certification Information – Q2 2014

Certification Requirements for **All US** Job Postings

18%

82%
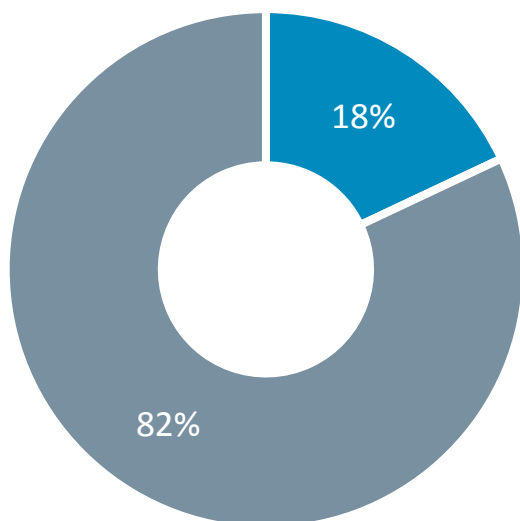
■ Ads with certification

6,072,429 Total US job postings Q2 2014

Certification Requirements for **IT IL** Job Postings

13%

87%

■ Ads with certification ■ No certification information

35,762 Total IL IT job postings Q2 2014

Top certs cited in IT IL ads include CISSP, PMP, Cisco, Microsoft, CISA, ITIL and CompTIA A+ (10th), Security+ (11th) & Network+ (12th).*

Note: Some other occupations mandate certifications more often than IT, e.g. nursing, accounting, teaching, automotive.

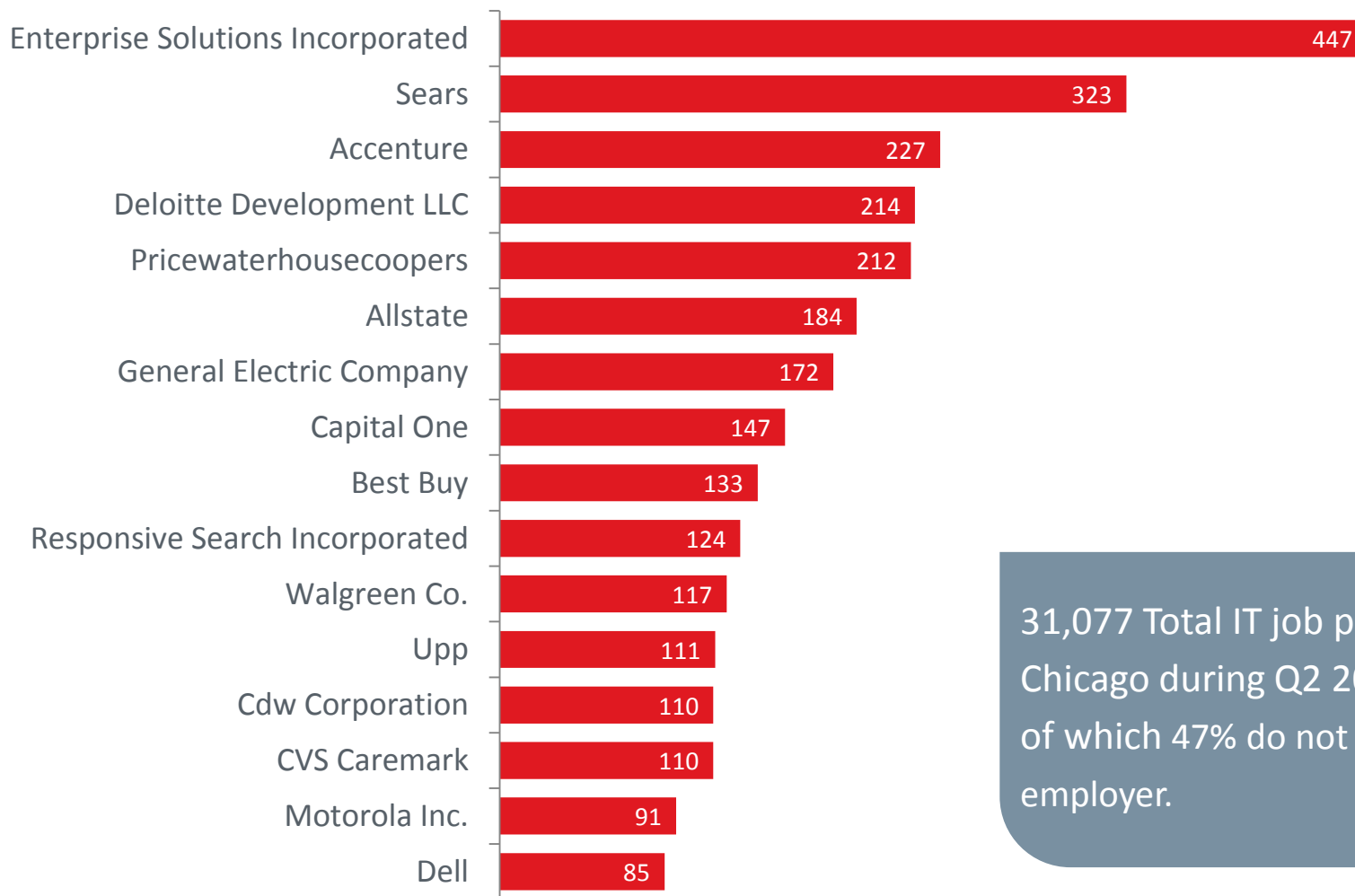Source: Burning Glass Technologies Labor Insights, July 2014

CompTIA *All three of these CompTIA certifications moved up in rankings since Q1 (A+ from 14th, Security+ from 19th & Network+ from 15th).

Section 4: Chicago

Number of IT Job Openings in Chicago – QoQ

Current quarter vs. same quarter last year

ONET Code	Core IT Occupations	# Postings Q2 2014	# Postings Q2 2013	# Change	% Change
11-3021.00	Computer & Information Systems Managers	987	578	409	71%
15-1111.00	Computer & Information Research Scientists	109	61	48	79%
15-1121.00-.01	Computer Systems Analysts & Informatics Specialists	3,945	2,331	1,614	69%
15-1122.00	Information Security Analysts	901	498	403	81%
15-1131.00	Computer Programmers	1,003	611	392	64%
15-1132.00	Software Developers, Applications	9,162	5,381	3,781	70%
15-1133.00	Software Developers, Systems Software	531	326	205	63%
15-1134.00	Web Developers	1,315	728	587	81%
15-1141.00	Database Administrators	1,429	925	504	54%
15-1142.00	Network & Computer Systems Administrators	1,302	825	477	58%
15-1143.00-.01	Computer Network Architects & Telecom Engineers	692	521	171	33%
15-1151.00	Computer User Support Specialists	2,190	1,493	697	47%
15-1152.00	Computer Network Support Specialists	111	110	1	1%
15-1199.00 -.12	Computer Occupations, All Other	7,060	4,249	2,811	66%
17-2061.00	Computer Hardware Engineers	45	20	25	125%
49-2011.00	Computer, Automated Teller, & Office Machine Repairers	295	212	83	39%
	Total	**31,077**	**18,869**	**12,208**	**65%**

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Employers with the Most IT Job Ads – Chicago Q2 2014

Employer	IT Job Ads
Enterprise Solutions Incorporated	447
Sears	323
Accenture	227
Deloitte Development LLC	214
Pricewaterhousecoopers	212
Allstate	184
General Electric Company	172
Capital One	147
Best Buy	133
Responsive Search Incorporated	124
Walgreen Co.	117
Upp	111
Cdw Corporation	110
CVS Caremark	110
Motorola Inc.	91
Dell	85

31,077 Total IT job postings in Chicago during Q2 2014, of which 47% do not specify employer.

Source: Burning Glass Technologies Labor Insights, July 2014

CompTIA

Industries with the Most IT Job Ads – Chicago Q2 2014

Industry	IT Job Ads
Professional, Scientific, and Technical Services	2,113
Insurance Carriers and Related Activities	824
Administrative and Support Services	629
Credit Intermediation and Related Activities	616
Educational Services	510
General Merchandise Stores	367
Hospitals	313
Health and Personal Care Stores	304
Computer and Electronic Product Manufacturing	261
Securities, Commodity Contracts and Other…	254
Ambulatory Health Care Services	252

31,077 Total IT job postings in Chicago during Q2 2014, of which 47% do not specify industry.

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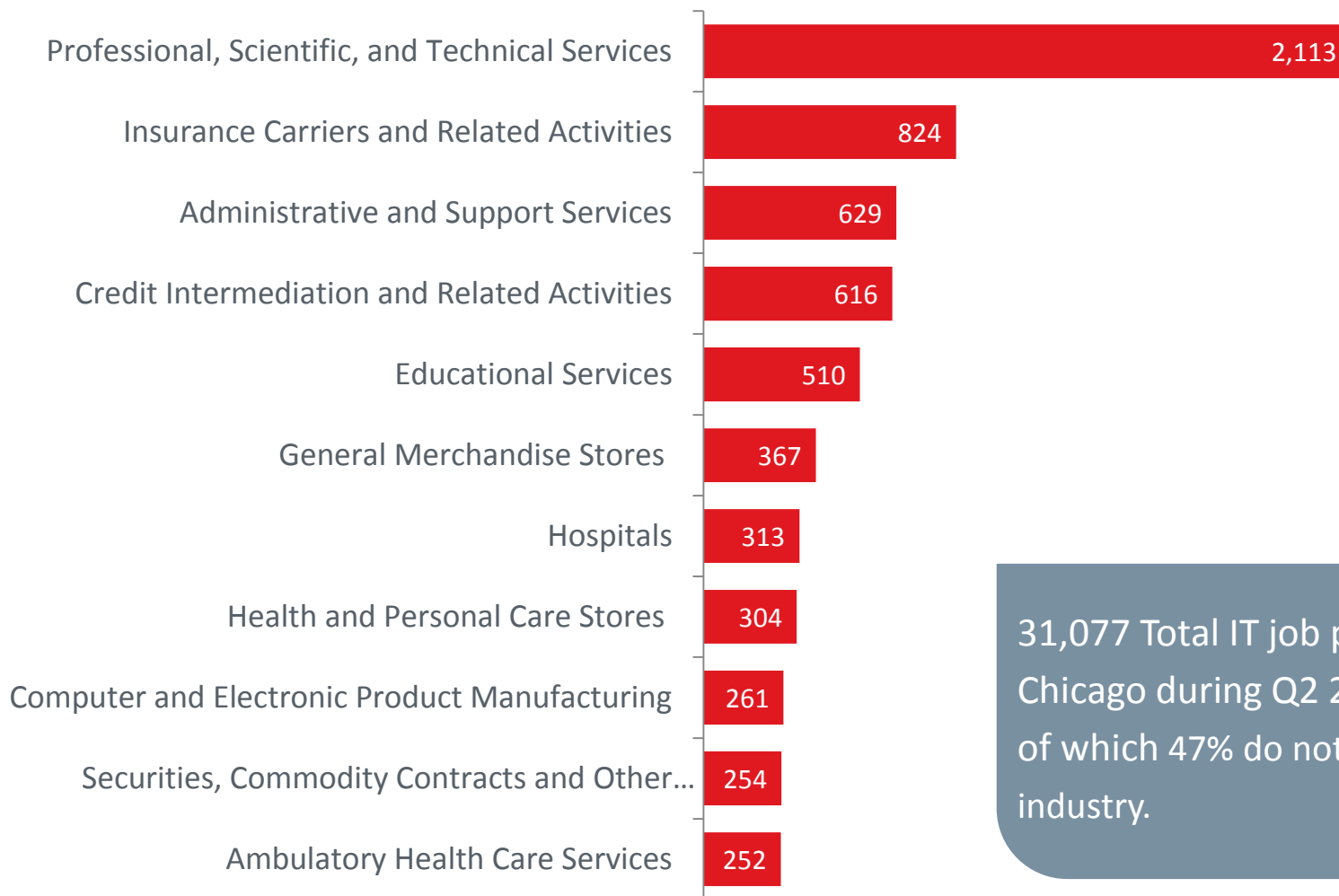
Top Skills Cited in IT Job Postings – Chicago Q2 2014

Top Skills Listed in IT Job Postings

1.	SQL
2.	JAVA
3.	Oracle
4.	JavaScript
5.	LINUX
6.	UNIX
7.	Business Process
8.	.NET Programming
9.	Microsoft C#
10.	SQL Server

31,077 Chicago IT job postings in Q2 2014, of which 15% do not specify skills.

Top Skill Clusters in IT Job Postings

1.	Software & Programming
2.	Common: Communication & Coordination
3.	Common: Business Environment
4.	Common: Problem Solving
5.	IT: Programming, Development & Engineering
6.	IT: Database & Data Warehousing
7.	IT: Business Intelligence
8.	Common: Project & Process Flow
9.	IT: Web Design & Technologies
10.	IT: Network Administration & Security

31,077 Chicago IT job postings in Q2 2014, of which 16% do not specify skill clusters.

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Top Titles Cited in IT Job Postings – Chicago Q2 2014

Top Job Titles Listed in IT Job Postings

#	Title
1.	Software Engineer
2.	Java Software Developer
3.	Network Engineer
4.	.Net Developer
5.	Systems Engineer
6.	Solutions Architect
7.	Applications Engineer
8.	Business Analyst
9.	Web Developer
10.	Application Developer

31,077 Chicago IT job postings in Q2 2014.

Top Job Titles in Network Administration & Security Skill Cluster

#	Title
1.	Network Engineer
2.	Systems Engineer
3.	Systems Administrator
4.	Java Software Developer
5.	Security Engineer
6.	Software Engineer
7.	Solutions Architect
8.	Network Administrator
9.	Network Security Engineer
10.	Application Analyst

6,199 Chicago IT job postings in Q2 2014 within the IT: Network Admin. & Security skill cluster.

Top "Entry Level" IT Occupations – Chicago Q2 2014

Top IT Occupations for < 2 Years of Experience Cited in IT Job Postings

#	Occupation
1.	Software Developers, Applications
2.	Computer User Support Specialists
3.	Computer Systems Analysts
4.	Network & Computer Systems Admins.
5.	Business Intelligence Analysts
6.	Database Administrators
7.	Web Developers
8.	Software Quality Assurance Engineers/Testers
9.	Computer Programmers
10.	Computer, Automated Teller & Office Machine Repairers

3,932 Total Chicago IT job postings that specify <2 Years of experience.

Top IT Occupations for IT Job Ads that Cite < $50K Salary

| #	Occupation
1.	Computer User Support Specialists
2.	Software Developers, Applications
3.	Computer Systems Analysts
4.	Computer, Automated Teller & Office Machine Repairers
5.	Software Quality Assurance Engineers & Testers
6.	Network & Computer Systems Admins.
7.	Database Admins.
8.	Computer Systems Engineers/Architects
9.	Computer Programmers
10.	Information Security Analysts

Only 672 Total Chicago IT job postings that cite <$35,000 (444) or $35,000-$49,999 (228).

Source: Burning Glass Technologies Labor Insights, July 2014

Certification, Experience & Job Type – Chicago Q2 2014

31,077 Total Chicago IT job postings

Certification Requirements
for **Chicago IT** Job Postings

12%

88%
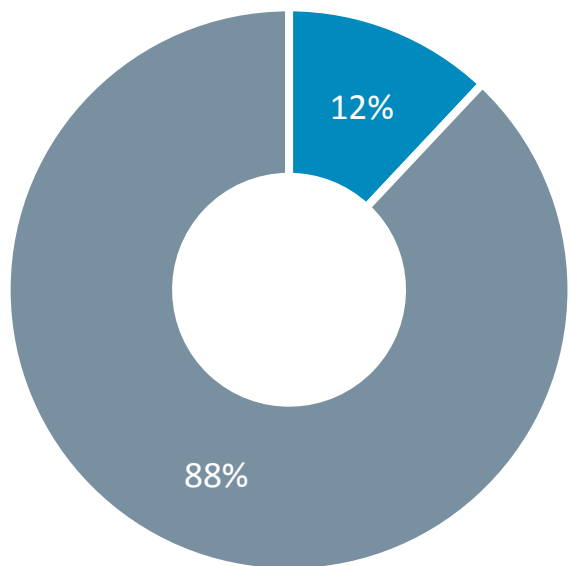
■ Ads with certification ■ No certification information

Top certs cited in Chicago IT ads include CISSP, PMP, Cisco, Microsoft, CISA, ITIL and CompTIA A+ (11th) & Network+ (15th).

Experience Requirements
for IT Job Postings

21%	< 2 Years
52%	2-5 Years
16%	5-8 Years
11%	8+ Years

Percentages among 18,686 ads with experience specified. (40% of 31,077 do not specify experience.)
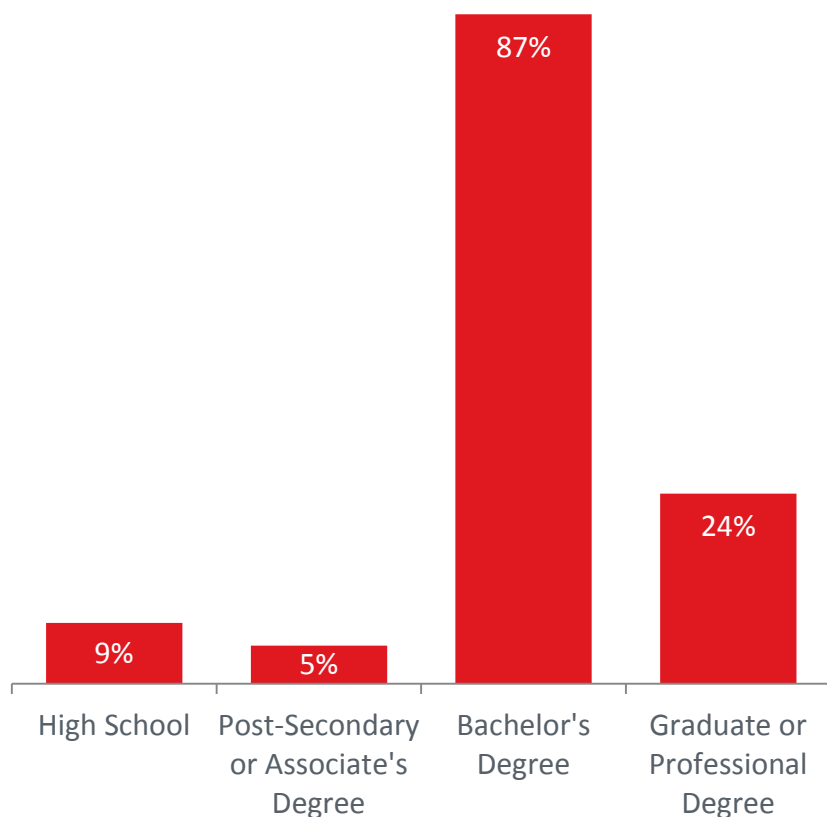
Job Types for IT Job Postings

74%	Permanent
26%	Temporary

Percentages among 18,781 ads with type specified. (60% of 31,077 do not specify type.)
Additionally, 98% specify Full-time, 2% Part-time.

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Educational Requirements in IT Job Ads – Chicago Q2 2014

Preferred / Required Education
Listed in IT Job Postings

	High School	Post-Secondary or Associate's Degree	Bachelor's Degree	Graduate or Professional Degree
	9%	5%	87%	24%

Note: a job posting may cite more than one educational preference/requirement.

Top Majors Listed in IT Job Postings

1.	Computer Science
2.	Business Administration & Management
3.	Engineering
4.	Computer Engineering
5.	Information Technology
6.	Management Information Systems
7.	Economics

A great majority (80%) of Chicago IT job postings do not specify a major.

More educational requirement details for IL & Chicago can be accessed via:
https://comptia.box.com/s/lm090kwdyf34k404rnuq

Source: Burning Glass Technologies Labor Insights, July 2014

CompTIA   Percentages among 17,195 ads with education specified.
(45% of 31,077 do not specify education.)

Section 5: US IT Employment & Future Outlook

IT Industry Employment vs. IT Occupation Employment

IT Industry Employment

IT Occupation Employment
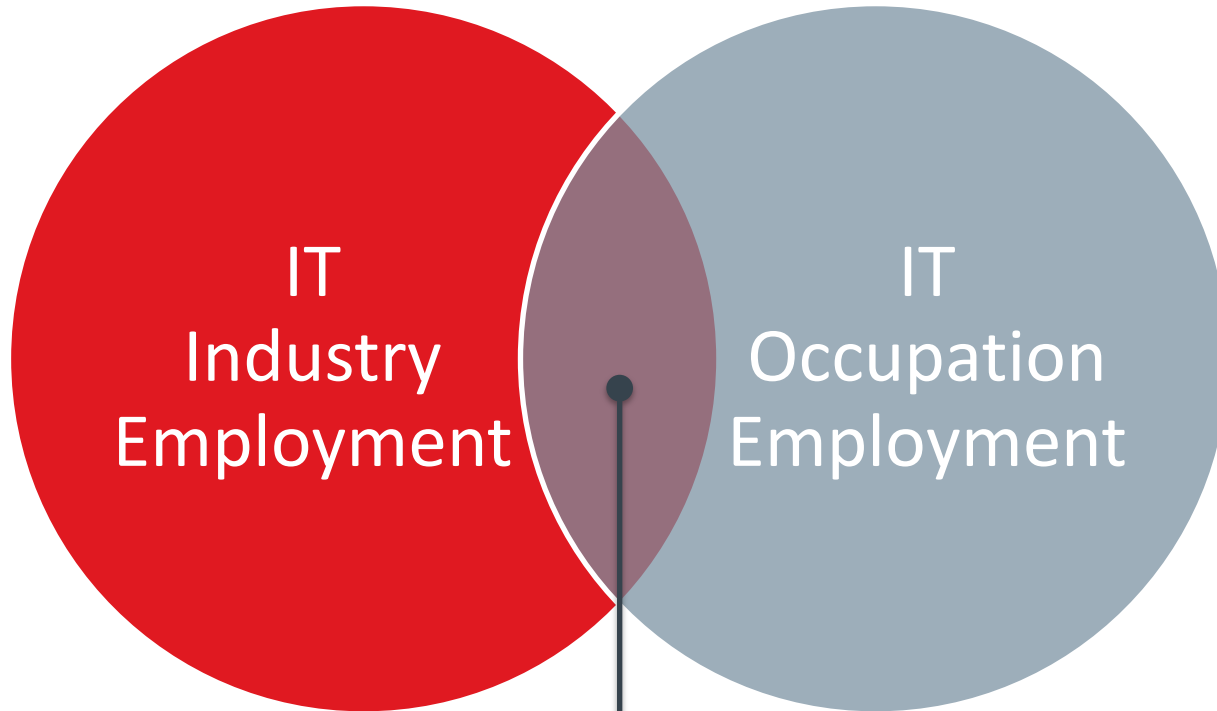
An estimated **5.73 million workers** were employed in the U.S. information technology industry in 2013. This includes technical and non-technical positions in employer firms and non-employer firms.

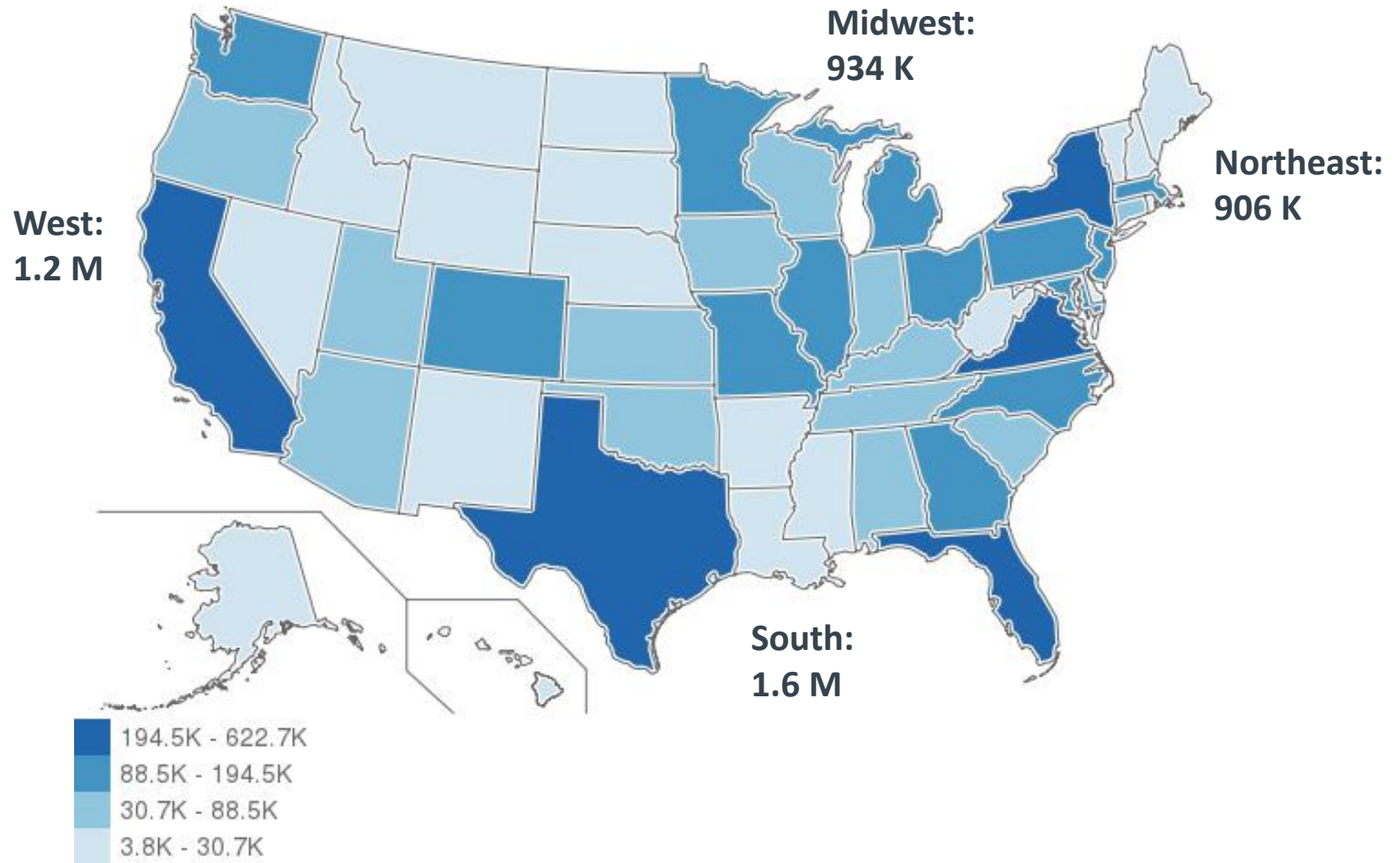Within the IT industry, there are many IT occupations.

An estimated **4.74 million workers** were employed in core IT occupations, across the full spectrum of U.S. industry sectors and the government sector in 2013. This figure includes non-employers, such as the self-employed or sole proprietors.

Number of U.S. Workers in <u>Core</u> IT Positions

SOC Code	Job Description	Employment Count – Employer Firms	Employment Count – Sole Proprietors	2013 Total
11-3020	Computer and Information Systems Managers	319,852	30,431	350,283
15-1110	Computer and Information Research Scientists	26,839	533	27,372
15-1120	Computer and Information Security Analysts	575,257	94,055	669,312
15-1121	Computer Systems Analysts	499,742	93,365	593,107
15-1122	Information Security Analysts	75,515	690	76,205
15-1130	Software Developers and Programmers	1,453,425	256,248	1,709,673
15-1131	Computer Programmers	324,998	75,776	400,774
15-1132	Software Developers, Applications	610,857	45,244	656,101
15-1133	Software Developers, Systems Software	410,829	27,517	438,346
15-1134	Web Developers	106,740	107,712	214,452
15-1140	Database and Systems Administrators and Network Architects	620,339	43,946	664,285
15-1141	Database Administrators	115,842	11,221	127,063
15-1142	Network and Computer Systems Administrators	361,528	24,391	385,919
15-1143	Computer Network Architects	142,968	8,334	151,302
15-1150	Computer Support Specialists	708,636	128,617	837,253
15-1151	Computer User Support Specialists	536,681	105,386	642,067
15-1152	Computer Network Support Specialists	171,955	23,231	195,186
15-1190	Computer Occupations, All Other	193,522	25,929	219,451
17-2060	Computer Hardware Engineers	81,740	4,289	86,029
49-2010	Computer, Automated Teller, and Office Machine Repairers	112,544	63,164	175,708
	TOTAL EMPLOYMENT	**4,092,154**	**647,212**	**4,739,366**

IT Jobs Distribution by State/Region

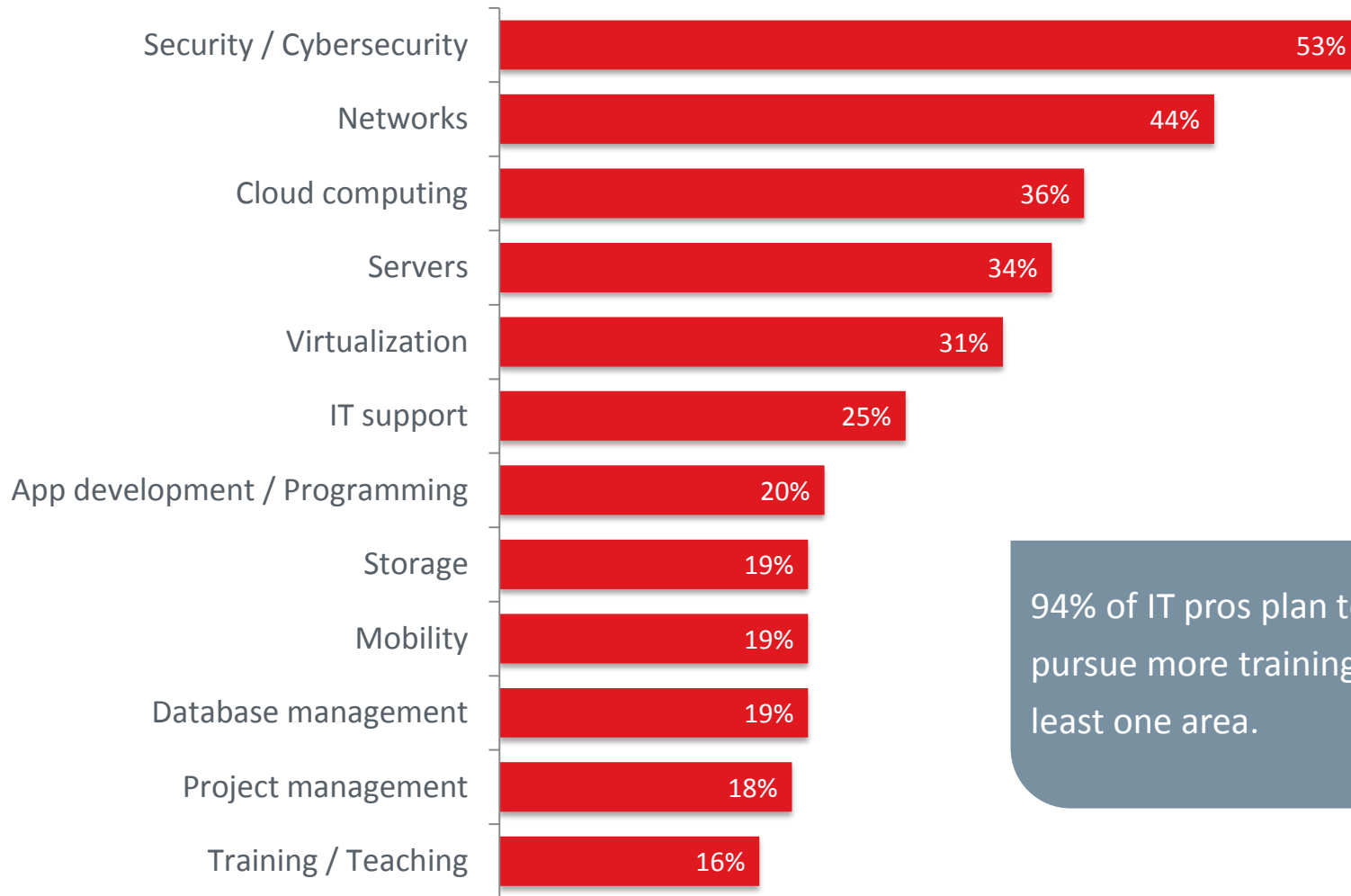Total U.S. Core IT job count for 2013: 4.74 million workers

Midwest: 934 K

Northeast: 906 K

West: 1.2 M

South: 1.6 M

194.5K - 622.7K
88.5K - 194.5K
30.7K - 88.5K
3.8K - 30.7K

Salaries and Job Growth for Core IT Positions

| ONET Code | Core IT Occupation | Salaries | 10 Year Job Growth Projections | |
		Average Annual Salary	Projected NET New Jobs 2012 - 2022	2012 – 2022 % Change
11-3021.00	Computer and Information Systems Managers	$120,950	50,900	15%
15-1111.00	Computer and Information Research Scientists	$102,190	4,100	15%
15-1121.00	Computer Systems Analysts	$79,680	127,700	25%
15-1122.00	Information Security Analysts	$86,170	27,400	37%
15-1131.00	Computer Programmers	$74,280	28,400	8%
15-1132-1133.00	Software Developers	$93,350	222,700	22%
15-1134.00	Web Developers	$62,500	28,500	20%
15-1141.00	Database Administrators	$77,080	17,900	15%
15-1142.00	Network and Computer Systems Administrators	$72,560	42,900	12%
15-1143.00	Computer Network Architects	$91,000	20,900	15%
15-1150.00	Computer Support Specialists	$48,900	123,000	17%
15-1199.00	Computer Occupations, All Other	NA	7,800	4%
17-2061.00	Computer Hardware Engineers	$100,920	6,200	7%
49-2011.00	Computer, Automated Teller, and Office Machine Repairers	$36,620	5,100	4%
	Total	NA	713,500	17%

CompTIA.

Section 6: Appendix

Top IT Skills IT Professionals Plan to Pursue

- IT knowledge / skills IT pros would like to further develop over the next two years

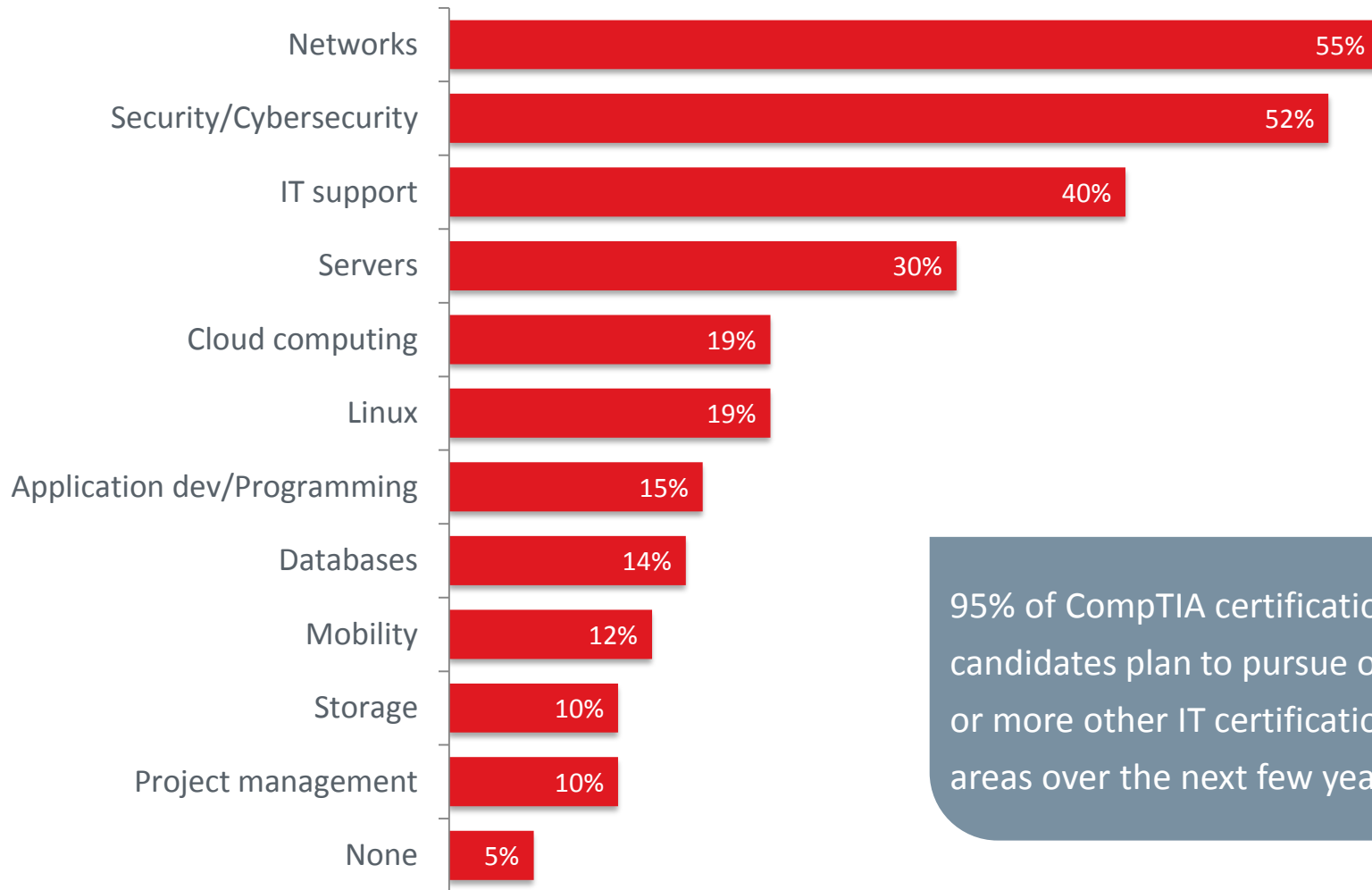| Skill	Percentage
Security / Cybersecurity	53%
Networks	44%
Cloud computing	36%
Servers	34%
Virtualization	31%
IT support	25%
App development / Programming	20%
Storage	19%
Mobility	19%
Database management	19%
Project management	18%
Training / Teaching	16%

94% of IT pros plan to pursue more training in at least one area.

Note: Nearly all respondents (95%) are already certified in CompTIA A+ (68%), Network+ (51%), or Security+ (48%).

Source: CompTIA's *2nd Annual IT Career Insights* study

CompTIA.

Base: 1,440 U.S. IT professionals

Top IT Certification Areas Candidates Plan to Pursue

- IT certification areas candidates plan to pursue over the next few years

Area	Percentage
Networks	55%
Security/Cybersecurity	52%
IT support	40%
Servers	30%
Cloud computing	19%
Linux	19%
Application dev/Programming	15%
Databases	14%
Mobility	12%
Storage	10%
Project management	10%
None	5%

95% of CompTIA certification candidates plan to pursue one or more other IT certification areas over the next few years.

Note: The greatest changes over one year ago (Q2 2013) include the increases in Networks (+7), Security (+5), Servers & Linux (each +2), and decrease in None/no plans (by 2 percentage points).

CompTIA.

Additional Resources

- CompTIA's *2nd Annual IT Career Insights* study (annual profiling survey of CompTIA certification holders):
    - US full report https://comptia.box.com/s/fuuqjkwc30a8nlrgyn2k
    - Canada summary https://comptia.box.com/s/phhapqxbgnpenzz061aw
    - South Africa summary https://comptia.box.com/s/vyfuh81a30bwfj5sf8pw
    - UK summary https://comptia.box.com/s/efnbohmj4z091fje2q2j

- CompTIA IT workforce-related industry research that's been published, for example:
    - *IT Industry Outlook 2014* and Quarterly *IT Industry Business Confidence Index*
    - *Military Career Path Study: Assessing the role of training and certifications*
    - *11th Annual Information Security Trends*
    - *International Technology Adoption & Workforce Trends*
    - *Generational Research on Technology and its Impact in the Workplace*
    - *Youth Opinions of Careers in IT*
    - *State of the IT Skills Gap*
    - *Employer Perceptions of IT Training and Certification*

- CompTIA members, partners & registered users can access research here:
    - CompTIA website http://www.comptia.org/insight-tools
    - CompTIA Partner Portal http://partners.comptia.org/delivery/research.aspx