



# Missouri Target Industry Brief

## INFORMATION TECHNOLOGY

### Information Technology

The **Information Technology** Target Industry Group includes nine industries that employ 120,716 workers across 13,806 establishments. This Industry Group represents 5.1 percent of all private sector employment in Missouri.

The **Information Technology** Group has the second highest average annual industry wages in Missouri at \$73,643, second to the Finance target industry group. Among the Information Technology industries, *Data Processing and Related Services* offers the highest wages at \$114,046 followed by *Software Publishers* at \$100,004, and *Scientific Research and Development Services* at \$98,014.

**Information Technology** or **IT** infrastructure is integral to an organization's success. Large companies and agencies tend to have their own IT departments. While there are many companies that provide IT services, there are also companies that exclusively work on the IT infrastructure of firms in specific industries: for example, Jack Henry and Associates maintains and supports integrated data processing systems for financial institutions.

The Location Quotient compares the regional share of an industry to the national share so that a LQ over 1.0 indicates sectors of employment concentration. Missouri has particularly high employment concentrations in the *Data Processing and Related Services* industry with a LQ of 1.69 and *Business Support Services* with a LQ of 1.16.

**2017 Employment Data for Information Technology Target Industry Group**

NAICS	Industry	2017 Establishments	2017 Employment	2017 Average Annual Wage	2017 Employment Location Quotient
	<b>Total All Private Industry</b>	<b>196,379</b>	<b>2,367,217</b>	<b>\$47,810</b>	
5112	Software Publishers	366	2,618	\$100,004	0.36
5182	Data Processing and Related Services	393	10,277	\$114,046	1.69
5324	Machinery and Equipment Rental and Leasing	263	2,187	\$46,747	0.74
5414	Specialized Design Services	542	2,187	\$55,575	0.81
5415	Computer Systems Design and Related Services	4,687	40,845	\$87,684	1.03
5416	Management and Technical Consulting Services	3,442	18,726	\$72,802	0.69
5417	Scientific Research and Development Services	452	8,637	\$98,014	0.68
5419	Other Professional and Technical Services	2,682	15,000	\$43,644	1.1
5614	Business Support Services	979	20,239	\$44,275	1.16
	<b>Totals</b>	<b>13,806</b>	<b>120,716</b>	<b>\$73,643</b>	<b>0.92</b>

Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, 2017 Annual Data

# Information Technology Employment Trends

## Employment Trends: 2012 – 2017

Employment in the **Information Technology** Target Industry Group grew an average 3.7 percent per year from 2012 to 2017— adding a total 20,116 jobs. The largest industries in this group, by employment, are *Computer Systems Design and Related Services*, *Business Support Services*, and *Management and Technical Consulting Services*.

Six **Information Technology** industries posted net employment gains. The *Computer Systems Design and Related Services* industry had the largest gain adding 10,673 jobs; *Management and Technical Consulting Services* added 7,966 jobs; *Other Professional and Technical Services* added 4,265 jobs; *Specialized Design Services* gained 562; *Software Publishers* added 357 jobs; and *Machinery and Equipment Rental and Leasing* gained 186 jobs between 2012 and 2017.

Three **Information Technology** industries posted a net loss. Among these were *Business Support Services*, which lost 2,068 jobs, and *Data Processing and Related Services*, which lost 91 jobs. The *Scientific Research and Development Services* industry shows a loss of 1,394 jobs in part due to subsector reclassification.

**2012 - 2017 Employment Data in the Information Technology Target Industry Group**

NAICS	Industry	2012 Employment	2013 Employment	2014 Employment	2015 Employment	2016 Employment	2017 Employment	2012 -2017 Employment Change
5112	Software Publishers	2,261	2,098	2,155	2,251	2,347	2,618	357
5182	Data Processing and Related Services	10,368	10,718	10,236	9,362	9,724	10,277	-91
5324	Machinery and Equipment Rental and Leasing	2,001	1,996	2,025	1,949	1,927	2,187	186
5414	Specialized Design Services	1,625	1,720	1,834	1,938	2,063	2,187	562
5415	Computer Systems Design and Related Services	30,172	33,083	33,757	35,688	38,038	40,845	10,673
5416	Management and Technical Consulting Services	10,760	11,626	12,432	15,297	17,063	18,726	7,966
5417	Scientific Research and Development Services	10,031	6,742	7,183	7,944	8,479	8,637	-1,394
5419	Other Professional and Technical Services	10,735	11,162	11,732	12,701	13,885	15,000	4,265
5614	Business Support Services	22,647	22,899	22,725	22,416	21,751	20,239	-2,408
<b>Totals</b>		<b>100,600</b>	<b>102,044</b>	<b>104,079</b>	<b>109,546</b>	<b>115,277</b>	<b>120,716</b>	<b>20,116</b>

Source: U. S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, 2017 Annual Data

# Information Technology Occupations

## Information Technology Occupations

Occupations in the **Information Technology (IT)** Target Industry Group generally require a high level of education and training. The IT industry group also has a combination of training (i.e., education, experience, or on-the-job). The top employing occupations in this industry group that typically require long-term (Later) training include *Software Developers, Computer Systems Analyst* and *Computer Programmers*. Occupations requiring moderate (Next) training include *Computer User Support Specialists, First-Line Supervisors*, and *Network Support Specialists*. Leading occupations requiring short-term (Now) training include *Customer Service Representatives* and *Telemarketers*.

The average annual wage for Missouri's **Information Technology** occupation specializations is \$64,885. *General and Operations Managers* earned an average \$116,265 followed by *Software Developers* at \$96,364. *Computer Network Support Specialists* earned an average \$55,419 and *User Support Specialists* earned an average \$47,227.

### 2017 Top Occupations for Information Technology

Now Next Later	Occupation Code	Occupation Title	2017 Estimated Employment	2017 Average Wages
NOW	43-4051	Customer Service Representatives	7,840	\$33,694
NOW	41-3099	Sales Representatives, Services, All Other	3,980	\$57,575
NOW	41-9041	Telemarketers	3,480	\$23,022
NOW	43-3011	Bill and Account Collectors	3,280	\$30,134
NOW	43-9061	Office Clerks, General	3,100	\$36,283
NEXT	15-1151	Computer User Support Specialists	4,500	\$47,227
NEXT	43-1011	First-Line Supervisors of Office and Administrative Support Workers	1,800	\$54,352
NEXT	43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,770	\$40,476
NEXT	15-1152	Computer Network Support Specialists	1,470	\$55,419
NEXT	43-6011	Executive Secretaries and Administrative Assistants	680	\$61,469
LATER	15-1132	Software Developers, Applications	7,810	\$96,364
LATER	15-1121	Computer Systems Analysts	5,720	\$88,614
LATER	11-1021	General and Operations Managers	3,110	\$116,265
LATER	15-1131	Computer Programmers	3,080	\$79,023
LATER	15-1133	Software Developers, Systems Software	2,860	\$94,280

Source: Division of Occupational Employment Statistics  
U.S. Bureau of Labor Statistics

### MISSOURI ECONOMIC RESEARCH AND INFORMATION CENTER

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September 2018

