



# Missouri Target Industry Brief INFORMATION TECHNOLOGY

## Information Technology

The **Information Technology** Target Industry Group is made up of nine industries that employ 115,320 workers across 12,191 establishments. This Industry Group represents 4.9 percent of all private sector employment in the Missouri.

The **Information Technology** Group has the highest average annual industry wages in Missouri at \$73,323 when compared to the other six targeted industry groups. Among the Information Technology industries, *Data Processing and Related Services* offers the highest wages at \$120,567 followed by *Software Publishers* at \$96,595, and *Scientific Research and Development Services* at \$95,801.

**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, Monett-based 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 an LQ of 1.67 and *Business Support Services* with an LQ of 1.24.

Missouri is also a destination for venture capital funding. In 2016, according to Price-Waterhouse, Missouri companies received nearly \$250 million in venture capital— about seven percent of that funding went to IT. Nationally, Information Technology is the number one venture capital investment.

**2011 - 2016 Employment Data for Information Technology Target Industry Group**

NAICS	Industry	2016 Establishments	2016 Employment	2016 Average Annual Wage	2016 Employment Location Quotient
	<b>Total All Private Industry</b>	<b>184,657</b>	<b>2,340,413</b>	<b>\$46,564</b>	
5112	Software Publishers	213	2,348	\$96,595	0.34
5182	Data Processing and Related Services	336	9,726	\$120,567	1.67
5324	Machinery and Equipment Rental and Leasing	255	1,927	\$47,267	0.69
5414	Specialized Design Services	498	2,069	\$56,451	0.78
5415	Computer Systems Design and Related Services	4,218	38,062	\$86,865	0.99
5416	Management and Technical Consulting Services	3,053	17,066	\$72,886	0.65
5417	Scientific Research and Development Services	396	8,479	\$95,801	0.64
5419	Other Professional and Technical Services	2,291	13,886	\$42,310	1.05
5614	Business Support Services	931	21,757	\$41,167	1.24
	<b>Totals</b>	<b>12,191</b>	<b>115,320</b>	<b>\$73,323</b>	<b>0.89</b>

Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, 2016 Annual Data

# Information Technology Employment Trends

## Employment Trends: 2011 – 2016

Employment in the **Information Technology** Target Industry Group has increased at an annualized 3.7 percent per year from 2011 to 2015— adding a total 19,289 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*.

Four **Information Technology** industries posted net employment gains. The *Computer Systems Design and Related Services* industry had the largest gain adding 12,974 jobs; *Management and Technical Consulting Services* added 6,814 jobs; *Other Professional and Technical Services* added 3,180 jobs; and *Specialized Design Services* gained 532 jobs between 2011 and 2016.

Five **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 269 jobs. The *Scientific Research and Development Services* industry shows a loss of 1,539 jobs but that is largely due to a reclassification issue; whereby, a new industry subsector was created.

**2011 - 2016 Employment Data in the Information Technology Target Industry Group**

NAICS	Industry	2011 Employment	2012 Employment	2013 Employment	2014 Employment	2015 Employment	2016 Employment	2011 -2016 Employment Change
5112	Software Publishers	2,590	2,261	2,098	2,155	2,252	2,348	-242
5182	Data Processing and Related Services	9,995	10,368	10,718	10,236	9,362	9,726	-269
5324	Machinery and Equipment Rental and Leasing	2,020	2,001	1,996	2,025	1,949	1,927	-93
5414	Specialized Design Services	1,537	1,625	1,720	1,834	1,938	2,069	532
5415	Computer Systems Design and Related Services	25,088	30,172	33,083	33,757	35,689	38,062	12,974
5416	Management and Technical Consulting Services	10,252	10,760	11,626	12,432	15,301	17,066	6,814
5417	Scientific Research and Development Services	10,018	10,031	6,742	7,183	7,888	8,479	-1,539
5419	Other Professional and Technical Services	10,706	10,735	11,162	11,732	12,705	13,886	3,180
5614	Business Support Services	23,825	22,647	22,899	22,725	22,417	21,757	-2,068
	<b>Totals</b>	<b>96,031</b>	<b>100,600</b>	<b>102,044</b>	<b>104,079</b>	<b>109,501</b>	<b>115,320</b>	<b>19,289</b>

Source: U. S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, 2016 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. Within the IT industry group also has a combination of training (i.e., education, experience, or on-the-job). Top five 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 \$62,742. *Computer and Information Systems Managers* earn the most at an average \$130,976 followed by *General and Operations Managers* at \$123,716. *Computer User Support Specialists* earn on average \$48,689 and *Network Support Specialists* which averages \$53,915.

### 2016 Top Occupations for Information Technology

Now Next Later	Occupation Code	Occupation Title	2016 Estimated Employment	2016 Average Wages
	00-0000	Total all occupations	113,390	\$62,742
NOW	43-4051	Customer Service Representatives	8,180	\$34,150
NOW	41-9041	Telemarketers	5,050	\$21,538
NOW	43-3011	Bill and Account Collectors	4,220	\$28,672
NOW	43-9061	Office Clerks, General	3,660	\$34,087
NOW	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	3,540	\$32,908
NEXT	15-1151	Computer User Support Specialists	4,450	\$48,689
NEXT	43-1011	First-Line Supervisors of Office and Administrative Support Worke	1,730	\$55,540
NEXT	43-3031	Bookkeeping, Accounting, and Auditing Clerks	1,580	\$37,944
NEXT	15-1152	Computer Network Support Specialists	1,110	\$53,915
NEXT	43-6011	Executive Secretaries and Executive Administrative Assistants	680	\$56,887
LATER	15-1132	Software Developers, Applications	7,110	\$96,470
LATER	15-1121	Computer Systems Analysts	5,620	\$92,928
LATER	15-1131	Computer Programmers	3,270	\$78,371
LATER	11-1021	General and Operations Managers	3,070	\$123,716
LATER	11-3021	Computer and Information Systems Managers	2,120	\$130,976

🔥 = Denotes occupations with top employment for Information Technology.  
 Source: Division of Occupational Employment Statistics  
 U.S. Bureau of Labor Statistics

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