



Missouri Target Industry Brief INFORMATION TECHNOLOGY

Information Technology

The **Information Technology** Target Industry Group is made up of nine industries that employ 109,501 workers across 11,603 establishments. This Industry Group represents 4.7 percent of all private sector employment in the state.

The **Information Technology** Group has the highest average annual wages in Missouri at \$73,022 when compared to the other six targeted industry groups. Among the Information Technology industries, *Data Processing and Related Services* offers the most favorable wages at \$121,154 followed by *Software Publishers* at \$100,297, and *Scientific Research and Development Services* at \$92,946.

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 an 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 1.65 and *Business Support Services* with an LQ of 1.31.

Missouri is also a destination for venture capital funding. In 2015, 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.

2015 Employment and Establishment Data for the Information Technology Target Industry Group

NAICS	Industry	2015 Establishments	2015 Employment	2015 Average Wage	2015 Employment Location Quotient
	Total Private Sector Industries	182,536	2,300,665	46,000	
5112	Software Publishers	171	2,252	100,297	0.35
5182	Data Processing and Related Services	305	9,362	121,154	1.65
5324	Machinery and Equipment Rental and Leasing	236	1,949	48,188	0.71
5414	Specialized Design Services	501	1,938	54,689	0.76
5415	Computer Systems Design and Related Services	4,101	35,689	88,526	0.98
5416	Management and Technical Consulting Services	2,964	15,301	73,355	0.62
5417	Scientific Research and Development Services	382	7,888	92,946	0.62
5419	Other Professional and Technical Services	1,988	12,705	40,603	1.01
5614	Business Support Services	955	22,417	40,379	1.31
	Total Information Technology Industries	11,603	109,501	73,022	0.91

Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, 2015 Annual Data

Information Technology Employment Trends

Employment Trends: 2010 – 2015

Employment in the **Information Technology** Target Industry Group has increased at an annualized 3.3 percent per year from 2010 to 2015— adding a total 16,283 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 13,223 jobs; *Management and Technical Consulting Services* added 5,734 jobs; *Other Professional and Technical Services* added 1,848 jobs; and *Specialized Design Services* gained 415 jobs between 2010 and 2015.

Five **Information Technology** industries posted a net loss. Among these were *Business Support Services* which lost 1,032 jobs and *Data Processing and Related Services* which lost 922 jobs. The *Scientific Research and Development Services* industry shows a loss of 2,405 jobs but that is largely due to a reclassification issue. If this sector is adjusted for the reclassification it would actually show an increase of roughly ten percent from 2010 to 2015.

2010 - 2015 Employment Data Information Technology Target Industry Group

NAICS	Industry	2010 Employment	2011 Employment	2012 Employment	2013 Employment	2014 Employment	2015 Employment	2010 -2015 Employment Change
5112	Software Publishers	2,810	2,590	2,261	2,098	2,155	2,252	-558
5182	Data Processing and Related Services	10,284	9,995	10,368	10,718	10,236	9,362	-922
5324	Machinery and Equipment Rental and Leasing	1,969	2,020	2,001	1,996	2,025	1,949	-20
5414	Specialized Design Services	1,523	1,537	1,625	1,720	1,834	1,938	415
5415	Computer Systems Design and Related Services	22,466	25,088	30,172	33,083	33,757	35,689	13,223
5416	Management and Technical Consulting Services	9,567	10,252	10,760	11,626	12,432	15,301	5,734
5417	Scientific Research and Development Services	10,293	10,018	10,031	6,742	7,183	7,888	-2,405
5419	Other Professional and Technical Services	10,857	10,706	10,735	11,162	11,732	12,705	1,848
5614	Business Support Services	23,449	23,825	22,647	22,899	22,725	22,417	-1,032
	Total	93,218	96,031	100,600	102,044	104,079	109,501	16,283

Source: U. S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, 2015 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 most recent survey of Missouri occupational employment shows that 11 out of 15 **IT** occupations typically require a Bachelor's degree; two require an Associate's degree; and one requires a graduate degree (*Computer and Information Research Scientist*). Among those **IT** occupations requiring a Bachelor's degree, three of these usually require experience: *Information Security Analysts*, *Database Administrators*, and *Computer Network Architects*.

Three percent of all occupational employment or 81,880 workers are in **Information Technology**. The average annual wage for Missouri's **Information Technology** profession is \$84,238. *Computer and Information Systems Managers* earn the most at an average \$125,810 followed by *Systems Software Developers* at \$100,150. *Computer User Support Specialists* earn on average \$49,400.

2015 Top Occupations in Information Technology

Occupation Code	Title	2015 Employment	2015 Average Wage	2015 Occupation Location Quotient
Total, All Occupations		2,712,240	\$43,640	
Long Term Training				
15-1132	Software Developers, Applications	13,270	\$92,660	0.90
15-1121	Computer Systems Analysts	10,260	\$89,750	0.94
15-1142	Network and Computer Systems Administrators	8,080	\$73,450	1.10
15-1131	Computer Programmers	7,770	\$78,830	1.36
11-3021	Computer and Information Systems Managers	6,230	\$125,810	0.93
15-1199	Computer Occupations, All Other	4,650	\$81,970	1.06
15-1133	Software Developers, Systems Software	3,930	\$100,150	0.51
15-1143	Computer Network Architects	2,870	\$96,510	1.00
15-1122	Information Security Analysts	2,410	\$78,180	1.38
15-1141	Database Administrators	2,320	\$79,020	1.04
17-2061	Computer Hardware Engineers	340	\$98,320	0.23
15-1111	Computer and Information Research Scientists	190	\$99,630	0.37
Moderate Training				
15-1134	Web Developers	1,510	\$61,660	0.60
15-1152	Computer Network Support Specialists	4,540	\$58,230	1.25
Short Term Training				
15-1151	Computer User Support Specialists	13,510	\$49,400	1.17

Source: Missouri Occupational Employment Survey, 2015

MISSOURI ECONOMIC RESEARCH AND INFORMATION CENTER

October 2016

Product funded by the U.S. Employment and Training Administration, Workforce Information Grant



Department of Economic Development

