

An Overview of Missouri Job Demand Research

State Board of Education

&

Coordinating Board for Higher Education

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Department of Economic Development



MERIC

Missouri Economic Research and Information Center

- Basic Data
 - Labor Market Information
- Value-Added Products
 - Research Tools
 - Publications

Real-Time Data



MISSOURI REAL TIME LABOR MARKET SUMMARY May 2016 ■ Statewide



A summary of real time labor market analysis for the past 60 days across the state indicates:

- The total number of new job postings totaled 68,094 for the State.
- The industry with the most job postings was Hospitals, including employers such as BJC HealthCare, SSM Health Care, Mercy Health System, Hospital Corporation of America, and Truman Medical Centers.
- The top three occupations with the highest number of job postings were Heavy & Tractor-Trailer Truck Drivers, Registered Nurses, and Wholesale Sales Representatives.
- Over three-fourths (77%) of the job postings were permanent full-time positions.
- St. Louis, MO included the most job postings of all Missouri Metropolitan areas.



Missouri Top Industry Postings

INDUSTRIES WITH TOP POSTINGS	NUMBER OF JOB ADS
Hospitals	5,303
Restaurants, Food & Drink Services	3,296
Truck Transportation	2,229
Colleges & Universities	1,391
Hotels & Other Accommodations	1,385
Insurance Companies	1,327
Banks	1,282
Health Practitioner Offices	1,022
Department Stores	941
Business Support Services	869

Missouri Top Employer Postings

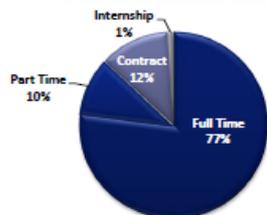
COMPANY
BJC HealthCare
SSM Health Care
Mercy Health System
Pizza Hut
Washington University
Hospital Corporation of America
Express Scripts
Scotttrade Incorporated
McDonald's
Truman Medical Centers

Missouri Cities With Most Job Postings

MSA *	NUMBER OF JOB ADS
St. Louis, MO	30,874
Kansas City, MO	17,813
Springfield, MO	3,985
Columbia, MO	1,795
Joplin, MO	1,647
Jefferson City, MO	1,634
St. Joseph, MO	1,516

*Metropolitan Statistical Area (MO Only)

Job Postings by Employment Type



NOW Occupations

OCCUPATIONS	ONLINE JOB ADS
Sales Reps, Wholesale / Mfg	2,286
Retail Salespersons	1,806
Customer Service Representatives	1,432
Laborers & Material Movers	998
Secretaries & Admin. Assistants	923
Food Prep & Serving Workers	817
Merchandise Displayers	676
Bookkeeping & Accounting Clerks	655
Security Guards	645
Production Workers	374

NEXT Occupations

OCCUPATIONS	ONLINE JOB ADS
Heavy & Tractor-Trailer Truck Drivers	4,464
Registered Nurses	3,167
Retail Sales Supervisors	1,308
Managers, Other	1,168
Maintenance & Repair Workers	1,006
Food Prep & Serving Supervisors	891
Licensed Practical Nurses	762
Nursing Assistants	721
Computer User Support	518
Web Developers	422

LATER Occupations

OCCUPATIONS	ONLINE JOB ADS
Software Developers, Applications	1,651
Medical & Health Services Managers	698
Human Resources Specialists	688
Accountants	657
Sales Managers	614
Physicians	571
Management Analysts	551
Computer Systems Analysts	432
Computer Systems Engineers/Architects	414
Information Technology Project Managers	399

Visit <http://jobs.mo.gov> for the latest job postings.



Featured Occupation:

Production Workers

This **NOW** occupation category includes employees who operate, set up, or tend machines or robots in a factory to fabricate, assemble, prepare, shape, cut, finish or package industrial or consumer goods and products.

There were 374 new job postings for Production Workers in the past 60 days.

Preferred Skills:

Machine Operation, Inspection, Repair, Packaging, Machinery, Mathematics, Labeling, Forklift Operation, Cleaning, Food Safety

Preferred Certifications:

Commercial Driver's License, Forklift Operator Certification

Top Employers:

PlayPower Incorporated, Cardinal Health, Inc., ConAgra Foods, Schnitzer Steel Industries, Briggs & Stratton, Mars Incorporated

Average Annual Wage: \$24,770

Occupations are typically classified as **NOW**, **NEXT** and **LATER**, depending on the training required.

NOW

NOW occupations usually require less than 1 month (short-term) to no more than 12 months (moderate-term) of on-the-job training.

NEXT

NEXT occupations usually require more than 1 year (long-term) on-the-job training and can additionally need specific work experience; generally requires an associate's degree or a substantial vocational education.

LATER

LATER occupations usually require a bachelor's degree and may need specific work experience; potentially some work experience or advanced degree required.

Sources

Data for this analysis has been extracted using Burning Glass Technologies, LaborInsight™ tool that collects information from over 35,000 web sources, including job boards, newspapers, large and small employer websites. Missouri Economic Research and Information Center (MERIC) uses this data to compile and publish reports for the State and Labor Market Regions.

While this analysis presents a broad picture of hiring activity and serves as a measure of labor demand, it does not capture openings that are filled through other networks.

This workforce solution was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

Occupational Projections

2015-2017 Short-term - <i>New</i>	2012-2022 Long-term
<i>Data (Excel)</i> <ul style="list-style-type: none">- Statewide- Regional (Kansas City and St. Louis)	<i>Data (Excel)</i> <ul style="list-style-type: none">- Statewide (2012-2022)- Regional (2012-2022)
Short-term Occupation Summaries	Long-term Occupation Summaries
<ul style="list-style-type: none">Top Openings - StateTop Openings - St. LouisTop Openings - Kansas CityFastest Growing Occupations - StateFastest Growing Occupations - St. LouisFastest Growing Occupations - Kansas City	<ul style="list-style-type: none">Top Openings - StateTop Openings - St. LouisTop Openings - Kansas CityTop Openings - NortheastTop Openings - NorthwestTop Openings - CentralTop Openings - West CentralTop Openings - OzarkTop Openings - SouthwestTop Openings - South CentralTop Openings - Southeast

Top 20 Lists
Occupational
Projections

Long-Term Occupational Projections

mo_occupational_projections_2012_2022.xls [Read-Only] [Compatibility Mode] - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Acrobat

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E32 Lodging Managers

Missouri 2012-2022 Occupational Projections						Employment		Change		Annual Wages			
						2012	2022	2012-2022		2013			
Grade	STEM	N_N_L	Code	Title	Estimated	Projected	Net	Percent	Entry	Mean	Median	Experi	
			00-0000	Total, All Occupations	2,841,672	3,086,278	244,606	8.61%	\$18,896	\$42,004	\$32,336	\$53	
B+		LATER	11-1011	Chief Executives	10,460	10,776	316	3.02%	\$68,794	\$150,398	\$134,156	\$191	
A+		LATER	11-1021	General and Operations Managers	53,128	58,220	5,092	9.58%	\$40,083	\$91,952	\$74,454	\$117	
D		LATER	11-1031	Legislators	n/a	n/a	n/a	n/a	\$16,939	\$26,181	\$18,734	\$30	
B		LATER	11-2011	Advertising and Promotions Managers	652	687	35	5.37%	\$42,262	\$94,555	\$78,780	\$120	
A		LATER	11-2021	Marketing Managers	2,678	2,987	309	11.54%	\$57,979	\$114,274	\$103,027	\$142	
A		LATER	11-2022	Sales Managers	6,863	7,398	535	7.80%	\$55,334	\$108,623	\$94,364	\$135	
B+		LATER	11-2031	Public Relations and Fundraising Manag	941	1,030	89	9.46%	\$54,940	\$94,743	\$85,526	\$114	
B+		LATER	11-3011	Administrative Services Managers	6,454	7,006	552	8.55%	\$40,861	\$74,631	\$68,231	\$91	
A	CORE	LATER	11-3021	Computer and Information Systems Mar	6,135	6,863	728	11.87%	\$73,269	\$110,412	\$106,152	\$128	
A		LATER	11-3031	Financial Managers	8,466	9,134	668	7.89%	\$65,963	\$113,286	\$100,714	\$136	
B		LATER	11-3051	Industrial Production Managers	3,327	3,425	98	2.95%	\$53,725	\$93,330	\$83,027	\$113	
B		LATER	11-3061	Purchasing Managers	1,069	1,113	44	4.12%	\$69,222	\$114,198	\$106,616	\$136	
B		LATER	11-3071	Transportation, Storage, and Distribution	1,844	1,975	131	7.10%	\$46,324	\$82,349	\$77,001	\$100	
B		LATER	11-3111	Compensation and Benefits Managers	329	343	14	4.26%	\$67,100	\$111,395	\$104,057	\$133	
A		LATER	11-3121	Human Resources Managers	2,287	2,546	259	11.32%	\$62,796	\$103,130	\$91,381	\$123	
B+		LATER	11-3131	Training and Development Managers	562	607	45	8.01%	\$57,452	\$99,972	\$87,261	\$121	
C		LATER	11-9013	Farmers, Ranchers, and Other Agricultu	7,598	6,196	-1,402	-18.45%	\$26,728	\$57,890	\$48,084	\$73	
A		LATER	11-9021	Construction Managers	9,603	10,825	1,222	12.73%	\$47,844	\$78,603	\$72,035	\$93	
C+		LATER	11-9031	Education Administrators, Preschool and	1,123	1,220	97	8.64%	\$28,940	\$41,807	\$36,348	\$48	
B+		LATER	11-9032	Education Administrators, Elementary and	4,268	4,421	153	3.58%	\$64,326	\$88,641	\$86,593	\$100	
A		LATER	11-9033	Education Administrators, Postsecondary	1,963	2,177	214	10.90%	\$60,187	\$105,274	\$91,666	\$127	
C+		LATER	11-9039	Education Administrators, All Other	190	197	7	3.68%	\$44,882	\$72,788	\$75,905	\$86	
B+	CORE	LATER	11-9041	Architectural and Engineering Managers	2,567	2,774	207	8.06%	\$77,298	\$117,133	\$113,799	\$137	
C		NEXT	11-9051	Food Service Managers	3,853	3,855	2	0.05%	\$28,104	\$46,773	\$40,414	\$56	

MO Occupational Projections Most Openings Fastest Growing Highest Wage

Ready 100%

Long-Term Occupational Projections

1 Missouri 2012-2022 Occupational Projections													
2						3 Employment		4 Change		5 Annual Wages			
3 Occupational						2012	2022	2012-2022		2013			
4	Grade	STEM	N_N_L	Code	Title	Estimated	Projected	Net	Percent	Entry	Mean	Median	Experienced
228	C+		LATER	25-1199	Postsecondary Teachers, All Other	444	479	35	7.88%	\$19,426	\$49,547	\$36,362	\$64,607
229	B		NEXT	25-2011	Preschool Teachers, Except Special Ed	8,867	9,690	823	9.28%	\$18,000	\$27,763	\$25,364	\$32,645
230	B		LATER	25-2012	Kindergarten Teachers, Except Special	2,997	3,304	307	10.24%	\$32,606	\$47,065	\$43,471	\$54,295
231	A		LATER	25-2021	Elementary School Teachers, Except Sp	23,146	25,504	2,358	10.19%	\$32,499	\$48,463	\$44,351	\$56,445
232	A		LATER	25-2022	Middle School Teachers, Except Specia	13,914	15,344	1,430	10.28%	\$36,310	\$53,377	\$48,785	\$61,911
233	C		LATER	25-2023	Career/Technical Education Teachers, I	335	346	11	3.28%	\$31,933	\$42,856	\$41,014	\$48,317
234	B		LATER	25-2031	Secondary School Teachers, Except Sp	19,966	20,670	704	3.53%	\$33,206	\$47,507	\$43,983	\$54,658
235	C+		LATER	25-2032	Career/Technical Education Teachers, S	1,579	1,626	47	2.98%	\$37,860	\$51,891	\$51,993	\$58,906
236	C		LATER	25-2051	Special Education Teachers, Preschool	175	187	12	6.86%	\$23,238	\$37,258	\$35,042	\$44,269
237	C+		LATER	25-2052	Special Education Teachers, Kindergart	3,178	3,286	108	3.40%	\$33,403	\$50,607	\$45,639	\$59,208

1	2 2012-2022 Openings							3 Median WorkKey Score		
3								Applied	Reading for	Locating
4	Growth	Replacement	Total	Typical Education Required	Typical Experience Required	Typical Job Training	Mathematics	Information	Information	
228	35	67	102	Doctoral or professional degree	None	None				
229	823	2,489	3,312	Associate's degree	None	None	3	4	3	
230	307	841	1,148	Bachelor's degree	None	Internship/residency				
231	2,358	5,093	7,451	Bachelor's degree	None	Internship/residency				
232	1,430	3,061	4,491	Bachelor's degree	None	Internship/residency				
233	11	74	85	Bachelor's degree	Less than 5 years	Internship/residency				
234	704	5,426	6,130	Bachelor's degree	None	Internship/residency				
235	47	429	476	Bachelor's degree	Less than 5 years	Internship/residency				
236	12	30	42	Bachelor's degree	None	Internship/residency	4	3	4	
237	108	543	651	Bachelor's degree	None	Internship/residency				

Occupational Projections Top 20

CENTRAL REGION TOP OPENINGS

2012-2022

Missouri's Central Region is projected to have more than 100,000 total job openings between 2012 and 2022. This includes openings created by new job growth, as well as those created through the need for replacement workers. Replacement openings occur due to retirement, turnover, or transferring to another occupation.

During this projected period, the 20 occupations with the greatest number of total openings includes 4 Office and Administrative Support Occupations and 3 Sales Related Occupations. Combined Food Prep and Serving Workers are projected to have the most total openings from 2012 to 2022, with most of these openings projected to be replacement positions. Overall, 16 of the 20 Top Opening Occupations have a Grade A or B outlook in terms of having above average growth, openings, and wages.

Occupation	2012 Est. Employment	2022 Proj. Employment	Growth Openings	Replacement Openings	Total Openings	Average 2013 Wage	Career Grade
Combined Food Preparation and Serving Workers, Including Fast Food	7,275	8,436	1,161	2,778	3,939	\$17,936	B
Retail Salespersons	9,054	9,862	808	3,097	3,905	\$23,111	B
Cashiers	7,827	8,155	328	3,384	3,712	\$19,020	C+
Waiters and Waitresses	5,372	5,707	335	2,585	2,920	\$19,095	C+
Registered Nurses	6,297	7,127	830	1,221	2,051	\$55,632	A
Office Clerks, General	7,076	7,583	507	1,487	1,994	\$28,087	B
Nursing Assistants	5,338	6,099	761	1,015	1,776	\$22,215	B
Laborers and Freight, Stock, and Material Movers, Hand	3,954	4,478	524	1,225	1,749	\$26,137	B+
Customer Service Representatives	3,921	4,507	586	1,067	1,653	\$29,362	B+
General and Operations Managers	5,003	5,680	677	936	1,613	\$72,710	A+
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	6,274	6,966	692	755	1,447	\$29,169	B
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	4,263	4,846	583	802	1,385	\$23,884	B+
Heavy and Tractor-Trailer Truck Drivers	3,773	4,430	657	603	1,260	\$35,406	A
Childcare Workers	2,997	3,170	173	881	1,054	\$20,222	C+
Landscaping and Groundskeeping Workers	2,410	2,851	441	608	1,049	\$23,218	B+
Maids and Housekeeping Cleaners	3,559	3,874	315	705	1,020	\$18,717	B
Carpenters	3,106	3,733	627	383	1,010	\$41,657	A
Stock Clerks and Order Fillers	3,336	3,329	0	1,008	1,008	\$23,114	C+
First-Line Supervisors of Retail Sales Workers	3,601	3,775	174	784	958	\$35,920	B
Personal Care Aides	2,716	3,455	739	194	933	\$18,955	A

Collaboration of Agencies

- Memorandum of Understanding
 - Elementary and Secondary Education
 - Higher Education
 - Labor and Industrial Relations
 - Social Services
 - Economic Development (MERIC & Workforce Development)
- State Longitudinal Data System Workgroup
 - Monthly meetings to discuss projects and share ideas

Wage Explorer

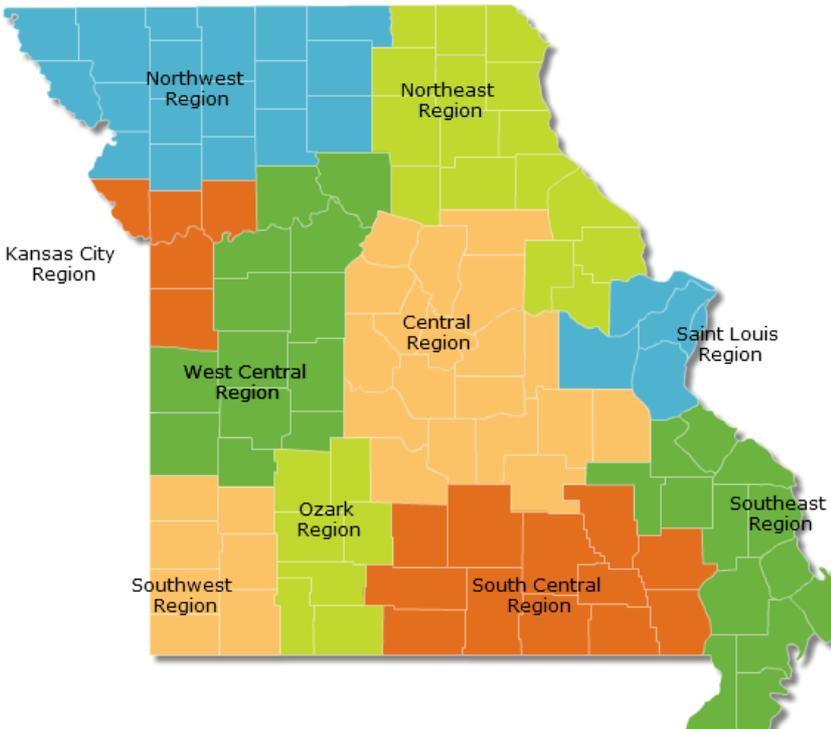
Selected Area: **Statewide**

Select **Statewide** or School Region From Map

Select a Training Program or

Select Cohort:

Select Wage Year:



- ▶ AGRICULTURE, AGRICULTURE OPERATIONS, AND RELATED SCIENCES.
- ▶ ARCHITECTURE AND RELATED SERVICES.
- ▶ AREA, ETHNIC, CULTURAL, GENDER, AND GROUP STUDIES.
- ▶ BIOLOGICAL AND BIOMEDICAL SCIENCES.
- ▶ BUSINESS, MANAGEMENT, MARKETING, AND RELATED SUPPORT SERVICES.
- ▶ COMMUNICATION, JOURNALISM, AND RELATED PROGRAMS.
- ▶ COMMUNICATIONS TECHNOLOGIES/TECHNICIANS AND SUPPORT SERVICES
- ▶ COMPUTER AND INFORMATION SCIENCES AND SUPPORT SERVICES.
- ▶ CONSTRUCTION TRADES.
- ▶ EDUCATION.
- ▶ ENGINEERING TECHNOLOGIES AND ENGINEERING-RELATED FIELDS.
- ▶ ENGINEERING.
- ▶ ENGLISH LANGUAGE AND LITERATURE/LETTERS.
- ▶ FAMILY AND CONSUMER SCIENCES/HUMAN SCIENCES.
- ▶ FOREIGN LANGUAGES, LITERATURES, AND LINGUISTICS.
- ▶ HEALTH PROFESSIONS AND RELATED PROGRAMS.

<https://www.missourieconomy.org/wdqi/reportcard/SelectionPage.aspx>

MERIC Resources

Explore MERIC for Much More:

<https://www.missourieconomy.org/>

- Occupational Studies Examples
 - [STEM](#)
 - [Career Grade Report](#)
 - [Computer Programming Lang.](#)
- Collaborative Product Examples
 - [Target Ind. Career Pathways](#)
 - [Career Guide](#)



Knowing the Code

Information Technology occupations are some of the most in demand occupations in Missouri. In 2014 over 72,000 people were employed in computer programming, developing, and support occupations (2014 Occupational Employment Statistics estimates). **Information Technology** occupations are projected to grow 11.6% from 2012-2022 (MERIC Long-Term Employment Projections).

From March 1, 2015 to February 28, 2016 there were 45,162 on-line job ads for selected IT occupations (Burning Glass Technologies). Programming skills are highly valued in these occupations. The majority of job ads for these occupations request applicants are proficient in various computer programming languages. Top requested programming languages include SQL, Oracle and C#.

Top 20 Requested Programming Languages in Computer Occupations

Skill	Language Type	Online Job Ads
SQL	Database Language	8,166
Oracle	Database Language	6,495
C#	Programming Language	6,088
JAVA	Programming Language	5,497

MDHE Resources

DHE Research and Data

<http://dhe.mo.gov/data/>

- Statistical Summary
 - <http://dhe.mo.gov/data/statsum/>
- Special Reports
 - <http://dhe.mo.gov/data/dataarchive.php>
- Searchable Program Inventory
 - <http://collegesearch.mo.gov/>

DESE Resources

DESE Research and Data

<http://dese.mo.gov/>

- College and Career Resources

<http://mcds.dese.mo.gov/Pages/Career-Education.aspx>

- Data Dashboard

<http://dese.mo.gov/top-10-20/data-dashboard>

MERIC Contact Information

Ronda Anderson, Workforce Research Manager

MERIC

301 West High Street, Suite 580

PO Box 3150

Jefferson City, MO 65102

573-751-8012

Ronda.Anderson@ded.mo.gov



Department of Economic Development

