

Missouri's Advantages for Advanced Manufacturing



A well-oiled machine. This describes the manufacturing environment in Missouri. Every link in the state's supply chain makes it a better place to do business. A large, skilled workforce means higher productivity. A top-ranked transportation network means getting product to market quicker. And low business costs mean better growth potential for your manufacturing business.

“Missouri is proud of its advanced manufacturing sector. Industry leaders like Emerson, Ford, and General Motors call the Show-Me State home. Missouri has one of the best transportation networks in the nation, an excellent location within 600 miles of 52 percent of all U.S. manufacturing businesses, and the 8th lowest corporate income tax rate in the U.S. Those advantages, combined with my administration’s pro-growth, job-creation policies make Missouri the perfect location for advanced manufacturing innovation and prosperity.”

— Governor Jeremiah W. “Jay” Nixon



Top five reasons to locate in Missouri:

1 A low-cost, pro-business environment helps companies prosper.

- Missouri ranks among the top 10 states in the nation for low business energy costs overall (*Small Business and Entrepreneurship Council, 2012*).
- Missouri ranks among the top 10 states in the nation for regulatory environment (*Forbes, 2012*).
- Missouri has been ranked a top 10 pro-business state for three years in a row (*Pollina Corporate Real Estate, 2012*).
- Missouri is a tax-friendly state, ranking in the top 10 for property tax index, unemployment insurance tax index, and corporate income tax index (*Tax Foundation, 2013*).
- Missouri offers tax exemptions on inventories, energy, machinery and equipment for qualifying manufacturers.

2 Missouri has a robust manufacturing sector with the resources to support all kinds of business.

- Noted Missouri manufacturers include Boeing, Kawasaki, Harley-Davidson, and Honeywell.
- Ford and GM both recently announced expansions of their Missouri assembly plants for a combined investment of \$1.5 billion, adding 4,160 jobs.
- Manufacturing contributes over \$32 billion (12.4 percent) toward Missouri’s gross state product of nearly \$258 billion (*BEA, 2012*).
- Nine Missouri manufacturers were included in the Fortune 1000 in 2013: Emerson Electric, Monsanto, Energizer Holdings, Leggett & Platt, Sigma-Aldrich, DST Systems, SunEdison (formerly MEMC Electronic Materials), Olin, and Belden.

3 Missouri’s got talent!

- Missouri’s labor force is 3 million strong, exceeding the entire populations of 20 states, including neighboring Kansas, Arkansas, and Nebraska.
- Manufacturing employs 248,300 Missourians in nearly 6,700 companies, making up 9.3 percent of the state’s total employment (*BLS, 2012*).
- Nearly 4,000 degrees in engineering related fields are awarded each year in the state.
- Missouri has 14 specialized knowledge centers related to advanced manufacturing located at universities around the state.

4 Missouri puts you close to customers and suppliers.

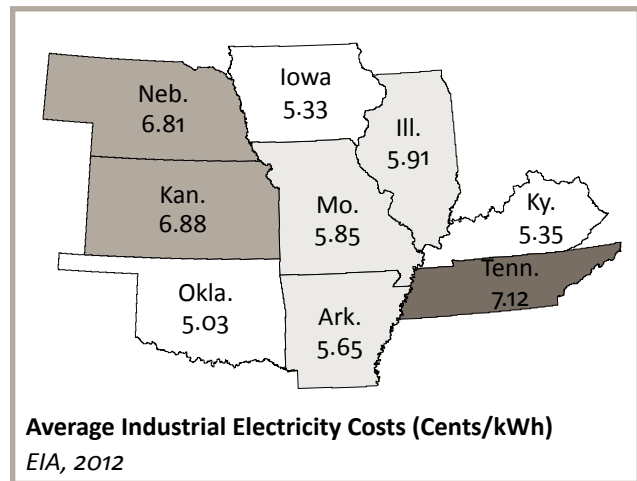
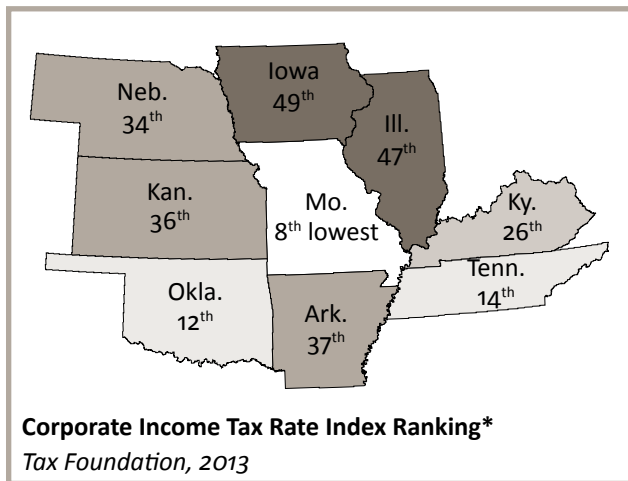
- Missouri's central location provides efficient access to both coasts, as well as to markets in Canada and Mexico.
- Missouri is within 600 miles of 50 percent of U.S. households and 52 percent of U.S. manufacturing establishments (*BLS, 2012 and Census Bureau, 2011*).
- Missouri is just one day's drive from some of the fastest-growing metros in the country: Austin, San Antonio, Dallas, Houston, Oklahoma City, Atlanta, and Nashville (*Census Bureau, 2012*).
- The population center of the U.S. is located in Texas County, Missouri (*Census Bureau, 2010*).
- Missouri is bordered by eight states—tied with Tennessee for the most of any U.S. state—providing access to even more markets and customers.

5 Missouri's top-ranked transportation network can get your product to market faster *and* cheaper.

- Missouri has one of the best and least congested transportation networks in the United States, and the 6th largest public road and highway system by total mileage (*Federal Highway Administration, 2010*).
- Kansas City and St. Louis are two of the three largest rail centers in the U.S., providing access to both the great eastern and western railroads.
- Missouri has the northernmost ice-free ports and the southernmost lock and dam on the Mississippi river, offering national and international companies the most efficient means of shipping.
- The airport system in Missouri consists of approximately 130 public airports, with two supporting international traffic: Lambert-St. Louis International and Kansas City International.

1 A low-cost, pro-business environment helps companies prosper.

- 6th lowest property tax index (*Tax Foundation, 2013*)
- 6th lowest unemployment insurance tax index (*Tax Foundation, 2013*)
- 6th lowest business energy costs (*Small Business and Entrepreneurship Council, 2012*)
- 8th lowest corporate income tax index (*Tax Foundation, 2013*)



*a lower ranking is better for business

- Missouri also ranked among the top 10 pro-business states for the third year in a row (*Pollina Corporate Real Estate, 2012*).
- Missouri is one of only seven states to receive the highest bond rating by all three rating agencies—Fitch Ratings, Standard & Poors and Moody's Investor Service—in 2013. Missouri has held an AAA rating for over 46 years and is one of just four states to maintain such a record.
- 10 Missouri companies were included in 2013's Fortune 500: Express Scripts, Emerson Electric, Monsanto, Reinsurance Group of America, Centene, Peabody Energy, Ameren, O'Reilly Automotive, Graybar Electric, and Jones Financial.
- Missouri has the third most diversified economy in the U.S. with a GDP over \$258 billion (*BEA, 2012*) and exports totaling over \$13.9 billion (*International Trade Administration, 2012*).

Tax exemptions for manufacturers

Manufacturers locating in Missouri enjoy numerous tax advantages, including automatic exemptions for:

- Sales/use tax on machinery and equipment used to establish a new or expand an existing facility
- Property tax on inventories
- State sales tax & local use tax on energy purchases

2 Missouri has a robust manufacturing sector with the resources to support all kinds of business.

- Fortune 1000 manufacturers headquartered in Missouri in 2013 included: Emerson Electric, Monsanto, Energizer Holdings, Leggett & Platt, Sigma-Aldrich, DST Systems, Sun Edision (formerly MEMC Electronic Materials), Olin, and Belden.
- The top five manufacturing employers in Missouri are Boeing, Ford Motor Company, Monsanto, Alliant Techsystems, and Anheuser-Busch Inbev.
- Missouri's manufacturing exports to the world exceeded \$11.8 billion in 2012. The top manufacturing export products were transportation equipment, chemicals, food products, machinery, and electrical equipment.
- Manufacturing contributes over \$32 billion (12.4 percent) toward Missouri's gross state product of over \$258 billion (*BEA, 2012*).

Companies recently located or expanded in Missouri

Click on [orange](#) text for a link to more information.

2013

Adrian Steel (Kansas City) announced a new manufacturing facility in Kansas City, a capital investment of \$4.7 million that will create 39 new jobs. The company specializes in producing commercial van interiors. ([more](#))

CertainTeed (Jonesburg) is a leading North American corporation that manufactures materials for commercial and residential builders. The company announced plans to build a new Midwest production and distribution center making a capital investment of \$100 million in an expansion that is expected to create 100 new local jobs. ([more](#))

CG Power Systems (Washington) announced the creation of 255 new jobs as a result of infrastructure improvements, including a new rail spur. The company constructs and ships large electrical transformers. ([more](#))

Ford (Kansas City) announced a third production shift at their Claycomo plant for the Ford F-150, adding 900 employees. This is in addition to a \$1.1 billion investment in the facility that the company announced in 2011, adding a second manufacturing line for the F-150 pickup truck and bringing in a new product, the Transit commercial van, creating 1,600 new jobs. ([more](#))

Boeing (St. Louis) announced plans to bring 600 jobs to a new information technology center it plans to establish in St. Louis. Boeing's Defense, Space & Security unit, headquartered in St. Louis, includes military aircraft as well as missiles, airborne lasers, and Unmanned Combat Air Vehicles (UCAVs). The unit is also NASA's prime contractor for the International Space Station and makes information and communications satellite systems. ([more](#))

Yanfeng USA Automotive Trim Systems (Riverside) announced plans to make a \$45 million capital investment in a new manufacturing plant in Riverside, expected to create 263 jobs. The Michigan-based subsidiary of Yanfeng Visteon of China is an automotive industry leader in interior component supplies for companies such as General Motors and Chrysler. ([more](#))

2012

American Performance Technologies (Kansas City) announced a \$26 million expansion and plans to hire 250 people at their Kansas City facility. The company manufactures motor scooters and other small-engine products under the Motovox brand. ([more](#))

Henniges Automotive (New Haven) a firm that supplies seating components primarily to General Motors and Nissan, announced they would expand their New Haven facility, creating up to 200 new jobs. ([more](#))

Invensys Controls (West Plains) announced plans for a \$6.9 million expansion. The company, which manufactures gas delivery control systems for a variety of appliances, plans to add eight new production lines at its West Plains facility and create up to 200 new local jobs. ([more](#))

LMI Aerospace (HQ St. Louis) announced plans to expand its corporate headquarters and manufacturing facilities in St. Charles. The company's planned capital investment of \$4.3 million is expected to create approximately 100 new local jobs. The company makes key airplane structures such as door and cockpit window frames, wing leading-edge skins, fuselage skins, and interior components. ([more](#))

LMV Automotive Systems (Kansas City) broke ground on a \$42 million production facility in Liberty that will create 156 jobs. The company is a part of Magna International Inc. and manufactures modular assemblies for Ford. ([more](#))

Logoplaste (Kansas City) selected the Kansas City region for its new manufacturing operation. The company, a manufacturer of rigid plastic packaging, will invest \$31.5 million in a 200,000-sq.-ft. facility, creating approximately 80 new jobs. ([more](#))

TG Missouri Corp. (HQ Perryville) announced plans for a \$38.9 million expansion, adding a new production line at its facility in Perryville as part of a new contract to supply chrome components to Toyota's plant in Princeton, Ind., an expansion that will create 200 new local jobs. TG Missouri Corp.'s products include steering wheels, airbags, side molding, interior and exterior plastic trim components for automobiles. The company is a division of Toyoda Gosei. ([more](#))

Zoltek (St. Louis) announced plans to significantly expand local operations and create 155 new jobs. The company is making a capital investment of \$15 million in the area's economy by locating its new research and development and manufacturing facility in St. Peters. The carbon fiber manufacturer already has two locations in the St. Louis area. ([more](#))

2011

Detroit Tool Metal Products (HQ Lebanon) is a full service provider of metal manufacturing processes that include: stamping, fabrication, welding, painting, modular assemblies and tooling. The company announced a second expansion in 2011, adding 75 jobs. ([more](#))

Emerald Automotive (St. Louis) announced plans to build hybrid electric vans and add 580 jobs at a new \$175 million plant in Hazelwood. ([more](#))

General Motors (St. Louis) announced a \$380 million investment into its Wentzville plant, adding 1,660 jobs and a new pickup line for the Chevrolet Colorado. The Wentzville plant currently produces the Chevy Express and GMC Savana vans. ([more](#))

Paul Mueller (Springfield) announced that it would add up to 289 jobs to meet a backlog of demand for its products. The company manufactures stainless steel tanks, processing systems and equipment for the food, dairy, beverage, chemical, biofuels, pharmaceutical, biotechnology, and pure water industries. ([more](#))

Other major advanced manufacturers in Missouri

Able Manufacturing & Assembly Co. (HQ Joplin) is a full-service supplier specializing in light metal fabrication and welding; thermoform plastic production, open and close mold composite fiberglass fabrication, product assembly and finish paint for major original equipment manufacturers. ([more](#))

Alliant Techsystems (ATK) Small Caliber Systems (Independence) operates the Lake City Army Ammunition Plant in Independence, Mo., the Defense Department's primary source for military 5.56 mm, 7.62 mm and .50-caliber rifle ammunition. ([more](#))

Emerson Electric Co. (HQ St. Louis) makes a host of electrical, electromechanical, and electronic products, many of which are used to control gases, liquids, and electricity. The Fortune 500 company gathers its 60-plus business units and divisions under eight Emerson Brands. It has more than 250 manufacturing locations, with about 165 locations outside of the US. ([more](#))

GKN Aerospace (St. Louis) is a first-tier supplier of structures, components, assemblies and engineering services to aircraft and aero engine manufacturers, including Boeing. ([more](#))

Harley-Davidson (Kansas City) built the 358,000-square-foot Harley-Davidson Vehicle and Powertrain Operations in Kansas City, Mo. in 1998. Kansas City employees produce the Sportster, Dyna and VRSC families of motorcycles from fabrication and finishing through final assembly. ([more](#))

Honeywell Federal Manufacturing & Technologies LLC (Kansas City) operates the Kansas City Plant, which produces 85 percent of the nonnuclear material used in the United States nuclear bomb arsenal. The plant produces nonnuclear mechanical, electronic and engineered material components for U.S. national defense systems such as high-energy laser ignition systems, microwave hybrid microcircuit production, and miniature electromechanical devices. The plant also provides technical services such as metallurgical/mechanical analysis, analytical chemistry, environmental testing, nondestructive testing, computer-based training, simulations and analysis, and technical certification. ([more](#))

Kawasaki (Maryville) began producing general purpose engines in 1989. The Maryville facility has grown to over 700,000 square feet on 113.7 acres of land employing over 600 people. ([more](#))

Lear Corporation (Wentzville) is a leading global supplier of automotive seating systems and electrical power management systems. ([more](#))

Leggett & Platt, Inc. (HQ Carthage) pioneered sleep technology when it introduced its bedspring more than 125 years ago. Serving a broad suite of customers that comprise a “Who’s Who” of U.S. companies, Leggett & Platt conceives, designs, and produces a diverse array of products that can be found in most homes, offices, and vehicles. ([more](#))

Maxion Wheels (Sedalia) is the world’s #1 manufacturer of fabricated steel and cast aluminum wheels for passenger cars and light trucks, and steel wheels for commercial trucks and trailers. Their Sedalia plant employs over 500 Missourians. ([more](#))

Noranda Aluminum (New Madrid) is the largest foil producer in North America and a major producer of light gauge sheet product. All of the company’s primary aluminum production occurs at the smelter near New Madrid, Missouri. ([more](#))

Peterson Manufacturing Company (HQ Kansas City) is primarily a maker of automotive and trailer lighting products. The company also makes automotive mirrors. Lighting customers include Harley-Davidson, Caterpillar, and O’Reilly Automotive. ([more](#))

Smith Electric Vehicles (HQ Kansas City) began production of their Newton electric truck at their new assembly facility in Kansas City in October 2009. The Kansas City plant is currently SEV’s only North American plant. ([more](#))

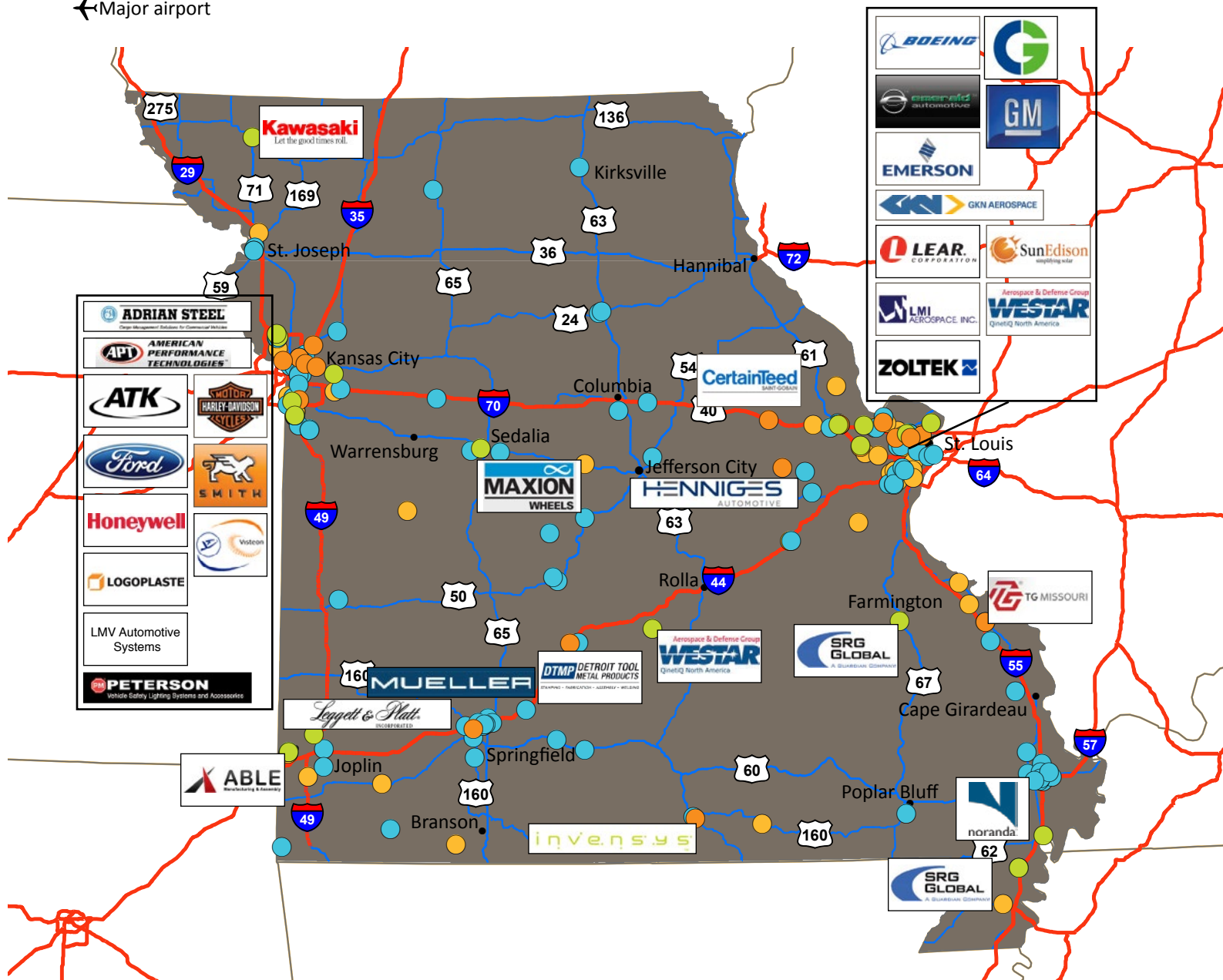
SRG Global (Farmington and Portageville) manufactures plastic and metal components for the global automotive industry. The company operates 2 manufacturing facilities in Missouri supplying grilles, bodyside moldings, nameplates, and other trim products to automotive manufacturers. ([more](#))

SunEdision (formerly MEMC Electronic Materials) (HQ St. Louis) designs, manufactures, and sells silicon wafers for the semiconductor industry worldwide. The company’s products are used as the starting material in the manufacture of various semiconductor devices, including microprocessor, memory, logic, and power devices, as well as solar cells. ([more](#))

Westar Aerospace & Defense (St. Louis and Ft. Leonard Wood) a subsidiary of QinetiQ North America, is a leading systems engineering contractor delivering engineering, software solutions, logistics information management and IT technical support services to the U.S. Department of Defense, allied governments and select commercial customers. ([more](#))

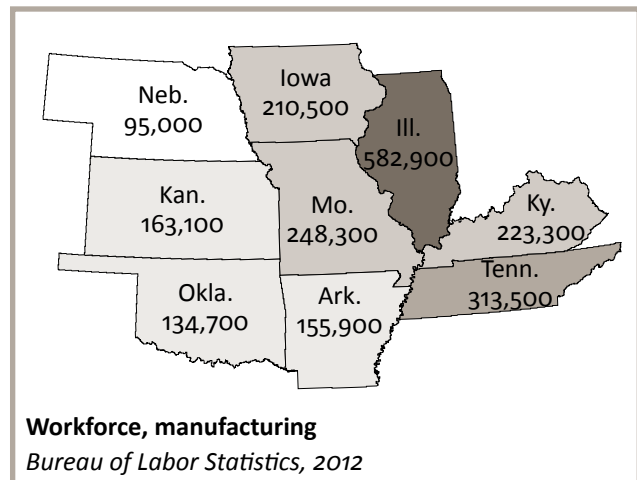
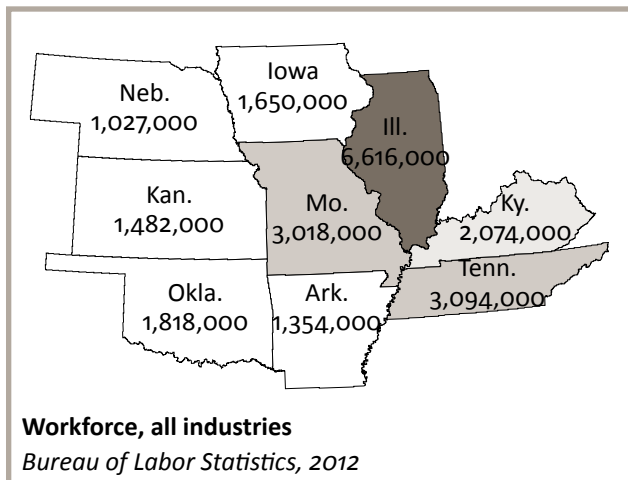
Missouri's advanced manufacturing companies

- Major advanced manufacturing company
- Recently located/expanded company
- Motor vehicle and parts manufacturing
- Aerospace manufacturing
- Port authorities
- Major airport



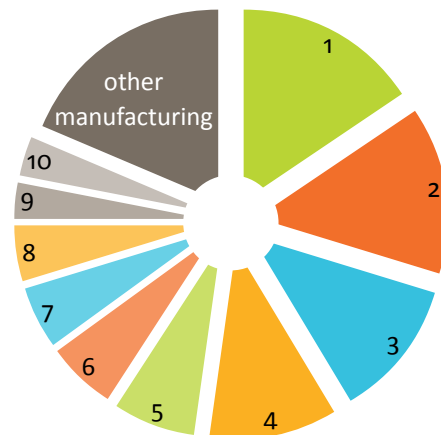
3 Missouri's got talent!

- Access to skilled labor means higher productivity, higher quality of product, and higher profits. With a workforce of more than 3 million, Missouri counts its people among its greatest resources.
- Education and training enhance our worker profile with 138 degree granting institutions statewide.
- Missouri's labor force alone exceeds the entire populations of 20 states, including neighboring Kansas, Arkansas, and Nebraska.
- Manufacturing employs 248,300 Missourians in nearly 6,700 companies, making up 9.3 percent of the state's total employment (*BLS, 2012*).
- Missouri's unionization rate is 8.9 percent, compared to the U.S. average of 11.2 percent ([click to see source](#)).

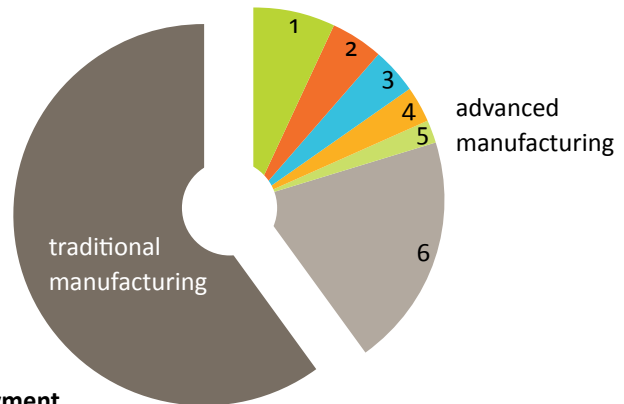


1. Food products: 38,774
2. Transportation equipment: 34,648
3. Fabricated metals: 28,816
4. Machinery: 26,397
5. Chemicals: 17,382
6. Plastics/rubber: 14,690
7. Printing: 12,835
8. Electrical equipment: 11,204
9. Miscellaneous: 8,060
10. Nonmetallic mineral manufacturing: 7,666

Missouri's top manufacturing sectors by employment
BLS, Quarterly Census of Employment and Wages, 2011



1. Aerospace product and parts: 17,518
2. Plastic products: 11,261
3. Other fabricated metal products: 9,584
4. HVAC & Commercial refrigeration equipment: 7,976
5. Electrical equipment: 4,781
6. Other advanced manufacturing: 49,216



Missouri's top advanced manufacturing sectors by employment

Bureau of Labor Statistics, Quarterly Census of Employment and Wages, 2012

- Advanced manufacturing wages in Missouri are 17 percent lower than the U.S. average.
- 100,336 Missourians are employed in advanced manufacturing in 1,578 establishments, accounting for 40.2 percent of the state's total manufacturing employment.
- Missouri's fastest growing advanced manufacturing employment sectors from 2011–2012:

Sector	Employment	Percent growth
Electronic instrument manufacturing	1,910	53.5%
Other transportation equipment manufacturing	1,359	41.7%
Industrial machinery manufacturing	1,487	8.1%
Foundries	2,664	7.0%
Boiler, tank, and shipping container manufacturing	2,471	7.0%

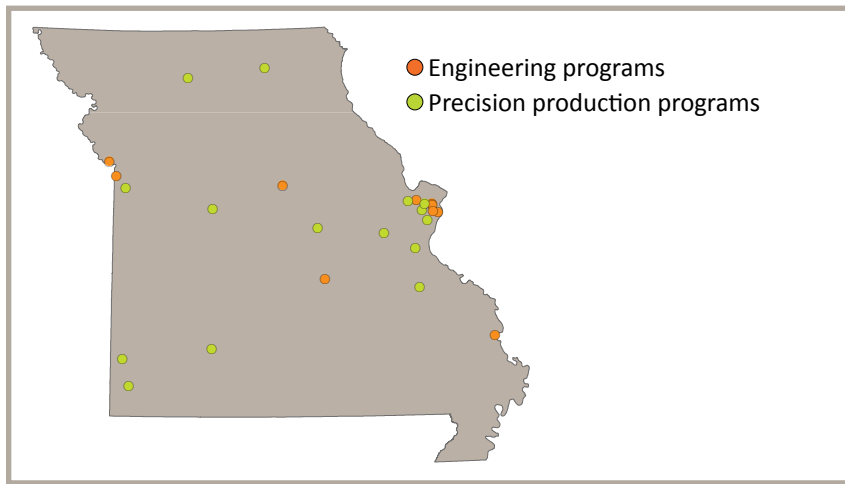
Source for all of the above: Bureau of Labor Statistics, Quarterly Census of Employment and Wages, 2012

Manufacturing occupation information

Occupation code	Occupation title	Missouri employment	Missouri median hourly wage	Illinois median hourly wage	Kansas median hourly wage	U.S. median hourly wage
00-0000	All Occupations	2,605,910	\$15.21	\$17.06	\$15.06	\$16.71
17-2011	Aerospace Engineers	930	\$48.64	\$51.26	\$45.52	\$49.87
17-2141	Mechanical Engineers	3,530	\$36.61	\$38.88	\$33.44	\$38.74
17-3027	Mechanical Engineering Technicians	490	\$23.22	\$27.07	\$24.63	\$24.99
51-0000	Production Occupations	188,170	\$14.31	\$15.22	\$14.92	\$14.87
51-1011	First-Line Supervisors of Production and Operating Workers	11,650	\$23.33	\$26.82	\$25.32	\$25.98
51-2031	Engine and Other Machine Assemblers	1,300	\$13.56	\$17.26	\$16.39	\$17.36
51-2041	Structural Metal Fabricators and Fitters	1,910	\$16.87	\$17.36	\$17.13	\$17.19
51-2091	Fiberglass Laminators and Fabricators	150	\$11.93	\$15.47	\$13.73	\$13.86
51-2092	Team Assemblers	27,600	\$13.22	\$13.35	\$14.23	\$13.29
51-2099	Assemblers and Fabricators, All Other	7,390	\$12.16	\$12.46	\$24.71	\$12.46
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	3,700	\$15.10	\$17.18	\$15.56	\$17.10
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	1,390	\$14.17	\$13.97	\$15.12	\$15.54
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	310	\$14.34	\$17.04	\$19.36	\$16.32
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	910	\$14.50	\$19.99	\$17.06	\$17.57
51-4041	Machinists	5,870	\$18.10	\$19.12	\$17.01	\$18.99
51-4071	Foundry Mold and Coremakers	80	\$14.79	\$15.48	\$16.51	\$14.68
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,740	\$14.72	\$17.35	\$18.66	\$16.33
51-4121	Welders, Cutters, Solderers, and Brazers	7,870	\$16.39	\$17.41	\$15.96	\$17.45
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	750	\$15.30	\$16.02	\$16.33	\$16.69
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	250	\$14.06	\$15.62	\$14.66	\$16.35
51-9022	Grinding and Polishing Workers, Hand	420	\$13.90	\$21.37	\$18.41	\$13.41

Source: Bureau of Labor Statistics, Occupational Employment and Wage Estimates, May 2012

Educational assets for advanced manufacturing



Missouri colleges offering precision production degree programs (Associate's):

- Crowder College (Neosho)
- East Central College (Union)
- Jefferson College (Hillsboro)
- Linn State Technical College
- Metropolitan Community College (Kansas City)
- Mineral Area College (Park Hills)
- Missouri Southern State University (Joplin)
- Moberly Area Community College
- North Central Missouri College (Trenton)
- Ozarks Technical Community College (Springfield)
- Ranken Technical College (St. Louis)
- St. Charles Community College
- St. Louis Community College
- State Fair Community College (Sedalia)
- Vatterott College (St. Louis)

Missouri colleges offering engineering degrees (Bachelor's or higher):

- Missouri Tech (St. Charles) BS
- Missouri University of Science and Technology (Rolla) BS, MS, PhD
- Park University: BS
- Southeast Missouri State University (Cape Girardeau): BS
- Saint Louis University: BS, MS, PhD

- University of Missouri at Columbia: BS, MS, PhD
- University of Missouri- Kansas City: BS, MS, PhD
- University of Missouri-St. Louis (joint program with Washington University in St. Louis): BS
- Vatterott College (St. Louis): BS
- Washington University in St. Louis: BS, MS, PhD

Knowledge centers for advanced manufacturing

Click on [orange](#) text for a link to more information.

Aerospace Research & Education Center is a consortium of Washington University, Saint Louis University, University of Missouri at Columbia, and Missouri University of Science & Technology focused on design optimization, materials, manufacturing, structures, and control systems. AeREC provides education through innovation, research, technology development, and transfer. AeREC also partners with the aerospace industry and government. ([more](#))

Alliance for Collaborative Research in Alternative Fuels Technology (All-Craft) a partnership of the University of Missouri at Columbia (lead institution), MRIGlobal in Kansas City, and others to develop low-pressure, high-capacity storage technologies for natural gas (NG, methane) and hydrogen as alternative fuels for advanced transportation. ([more](#))

Missouri Industrial Assessment Center at the University of Missouri (Columbia) offers energy audit and productivity assessment to qualified small-to-medium sized manufacturing companies. ([more](#))

Missouri State University Center for Applied Science and Engineering (CASE) in Springfield develops and supports advanced materials research in carbon based electronics and devices, materials research and characterization, various MEMS sensors, and systems fabrication. ([more](#))

Centers at Missouri University of Science and Technology (Missouri S&T)

Center for Aerospace Manufacturing Technologies (CAMT) serves as a center of excellence in the U.S. for the development and transition of innovative advanced technologies for the aerospace manufacturing supply chain. ([more](#))

Center for Intelligent Maintenance Systems: provides an opportunity for cooperative research between Missouri S&T researchers and industrial partners to develop appropriate technologies to bridge the gap in the areas of monitoring/diagnostic/prognostic (M/D/P) tools with industrial applications. Industrial partners the center has worked with include Caterpillar, Chevron, Honeywell, and Boeing. ([more](#))

Intelligent Systems Center performs basic and applied research to address technology needs and technical issues in developing intelligent systems for manufacturing and energy applications. ([more](#))

Materials Research Center home to research ranging from fundamental science to applied engineering and includes the development, evaluation, application, and understanding of metals, polymers, biomaterials, electronic materials and composites. ([more](#))

Centers at St. Louis Community College

Aerospace Institute strives to expand the pipeline of trained individuals ready for entry level technician positions within regional aerospace companies, and is located in the Center for Workforce Innovation, a 32,000 square foot building adjacent to the St. Louis Community College Florissant Valley Campus. ([more](#))

Emerson Center for Engineering Manufacturing is a 31,000-square-foot facility featuring state-of-the-art tooling and equipment, including 14,000 square feet of laboratory space and classrooms. The Center has laboratories for manufacturing, materials, quality assurance, civil engineering, electrical/electronic, CAD & design, and skilled trades. ([more](#))

Centers at St. Louis University

Center for Aviation Safety Research was established by Congress to solve crucial aviation safety research questions and research Next-Generation Maintenance and Technology. The Center is to serve as the central resource for practitioners, researchers, and consultants to develop sustainable safety initiatives across air transportation as well as other high-consequence industries. ([more](#))

Space Systems Research Laboratory performs research in the design, fabrication and operation of space systems. ([more](#))

Centers at Washington University in St. Louis

Center for Materials Innovation is focused on magnetic, biological, biomedical, and amorphous materials, as well as nanostructured materials synthesis. ([more](#))

Institute of Materials Science & Engineering integrate and leverage the full potential of interdisciplinary materials research by bringing together more than 30 researchers from engineering, physics, chemistry, and earth and planetary sciences. ([more](#))

4 Missouri puts you close to customers and suppliers.



- Missouri's central location provides efficient access to both coasts, as well as to markets in Canada and Mexico.
- Missouri is within 600 miles of 50 percent of U.S. households and 52 percent of U.S. manufacturing establishments (*BLS, 2012 and Census Bureau, 2011*).
- Missouri is just one day's drive from some of the fastest-growing metros in the country: Austin, San Antonio, Dallas, Houston, Oklahoma City, Atlanta, and Nashville (*Census Bureau, 2012*).
- The population center of the U.S. is located in Texas County, Missouri (*Census Bureau, 2010*).
- Missouri is bordered by eight states, tied with Tennessee for the most of any U.S. State—providing access to even more markets and customers.

5 Missouri's top-ranked transportation network can get your product to market faster *and* cheaper.

Airports

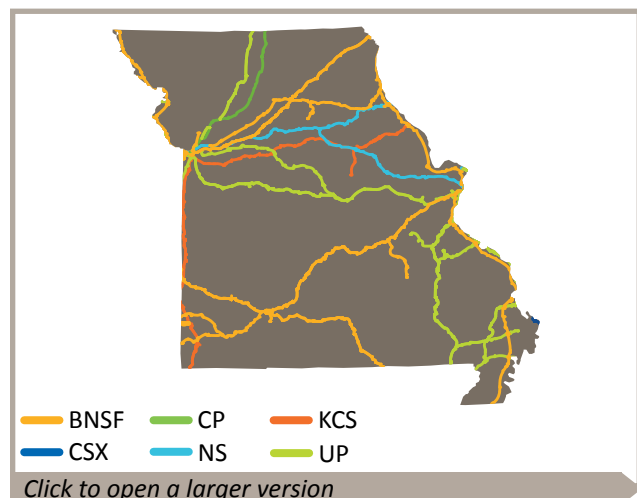
- Missouri travelers can reach most cities in the United States and Canada in less than three hours by air.
- The airport system in Missouri consists of 130 public airports, with two providing international service: Lambert-St. Louis International and Kansas City International.
- Springfield, Branson, Joplin, Columbia, Cape Girardeau, Kirksville and Waynesville (Fort Leonard Wood) also have commercial service.

Foreign trade zones

- Missouri has foreign trade zones in Kansas City, St. Louis, and Springfield.
- The FTZ at Lambert-St. Louis International Airport was recently expanded to include all of St. Louis City and St. Louis County under the Alternative Site Framework.
- The KCI Intermodal BusinessCentre includes 8,000 acres of multi-use land for development on the airfield designated FTZ and enhanced enterprise zone.

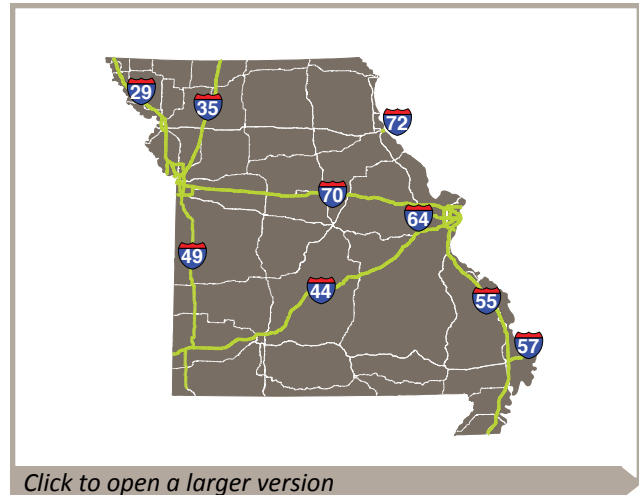
Rail

- Missouri provides efficient, low-cost shipping across the country via all Class I carriers: Burlington Northern Santa Fe (BNSF), Kansas City Southern (KCS), Norfolk Southern (NS), Union Pacific (UP), CSX, Canadian National Railway (CN), and Canadian Pacific (CP). It is one of the few states that can provide access to both east and west coasts.
- Missouri is ranked in the top ten for U.S. railroad mileage with 4,019 miles (*Association of American Railroads, 2010*).
- Missouri is ranked fourth in tons and third in rail carloads carried by state (*Association of American Railroads*).
- The 1,340 acre CenterPoint KCS Intermodal center includes a thousand acre industrial park located directly adjacent to the new Kansas City Southern Intermodal Facility. With infrastructure in place, these sites are shovel-ready for facilities up to one million square feet. KCS will offer direct rail service to CIC-KC from the natural deepwater port of Lazaro Cardenas, Mexico.



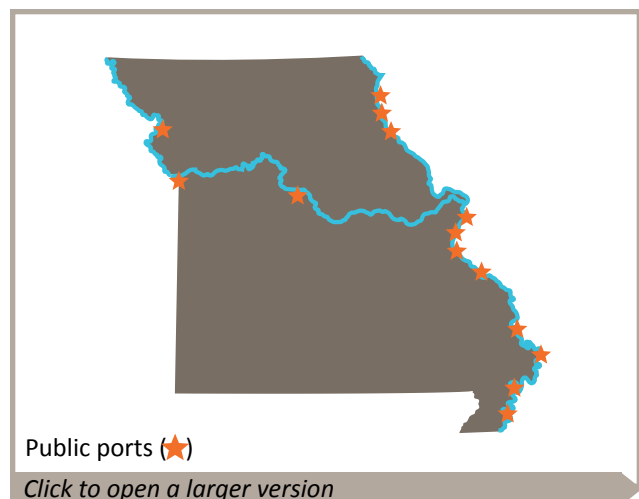
Roads

- Missouri has the sixth largest public road and highway system in the nation with 131,667 miles (*Federal Highway Administration, 2010*).
- Major interstates include I-64, I-44, I-70, I-55, I-35, I-29, and the newly designated I-49, which connects Kansas City to Joplin.
- I-70, which bisects Missouri, is over 2,000 miles long and passes through 10 states.
- Interstates 29 and 35 are located within the NAFTA corridor, providing easy access to Canada and Mexico.
- Missouri ranked in the top 10 states for Federal highway funding in 2012, with \$1.5 billion (*Federal Highway Administration, 2011*).
- There are more than 110,000 commercial trailers registered in Missouri (*Bureau of Transportation Statistics, 2011*).



Waterways

- Missouri is ranked tenth for inland waterway mileage (1,000 miles), moving an average of \$4.1 billion in cargo annually.
- Twenty-nine industrial centers, with a combined population of 90 million, can be reached from St. Louis by barge. St. Louis is the northern-most point on the Mississippi River that normally remains ice-free and open throughout the year. The city is also the location of the southernmost lock and dam on the Mississippi (*Missouri Port Authorities*).
- Missouri has 14 strategically located public port authorities (*Missouri Port Authorities*).
- Nearly 4,500 acres are available for development adjacent to Missouri's port authorities.



The Missouri Partnership is a public-private, non-profit focused on recruiting new business to the state. To find out how Missouri Partnership can assist at any stage of your project, contact us by:

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