

Missouri advantages for the advanced manufacturing industry



“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 53 percent of all U.S. manufacturing businesses, and the 4th 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 Jay Nixon

5 reasons to locate an advanced manufacturing company in Missouri:

1. Thriving industry: Missouri has a robust advanced manufacturing sector. (page 3)

Advanced manufacturing contributes more than \$36 billion (13 percent) towards Missouri's gross state product, and the state has the resources to support many more companies.

2. Quality workforce: Missouri's talented workers are ready for advanced manufacturing. (page 11)

Missouri has over 6,600 manufacturing establishments employing more than 256,000 people, making up 9.4 percent of the state's total employment (*BLS, 2014*).

3. Favorable environment: Missouri's business environment is suited for companies looking to lead the industry. (page 17)

With some of the lowest taxes, energy rates and gas prices in the country, Missouri is positioned to shape the future of advanced manufacturing.

4. Central location: Missouri's proximity to markets ensures quick access to customers and suppliers. (page 18)

Missouri's central location provides efficient access to both coasts, as well as markets in Canada and Mexico.

5. Solid infrastructure: Missouri's top-ranked transportation network is a dependable delivery system for goods and services. (page 19)

Missouri lies at the heart of a vast transportation network with direct connections to domestic and foreign markets.

REASON #1: Missouri has a robust advanced manufacturing sector with the resources to support many more companies.

- Noted Missouri manufacturers include Boeing, Kawasaki, Harley-Davidson and Honeywell.
- Missouri's automotive industry is growing at a rapid pace. Since 2010, Ford, General Motors and more than 60 automotive suppliers have added—or announced plans to add—more than 9,000 new jobs and \$2 billion capital investment at Missouri facilities. The Show-Me state has also seen tremendous growth in the aviation and aerospace industry, with over 2,500 new jobs announced within the last few years, including Boeing's plans to create 2,000 new jobs in Missouri within the next 10 years. Download our [Aerospace Manufacturing](#) and [Automotive Manufacturing](#) brochures to learn more about these companies.
- Manufacturing contributes over \$36 billion (13 percent) toward Missouri's gross state product of over \$276 billion (*BEA, 2013*).
- Fortune 1000 manufacturers headquartered in Missouri in 2014 included: Emerson, Monsanto, Energizer Holdings, Leggett & Platt, Sigma-Aldrich, Olin, and Belden.
- The top five manufacturing employers in Missouri are Boeing, Monsanto, Tyson Poultry, True Manufacturing and General Motors (*MERIC*).
- Missouri's top international manufacturing export products in 2014—which exceeded \$12.8 billion—were: transportation equipment, chemicals, food products, machinery and electrical equipment (*International Trade Administration*).

Notable Missouri advanced manufacturers

Click on the [orange text](#) for more information.

NEW denotes a recent location or expansion in Missouri

- NEW** **3M** (Columbia, Nevada and Springfield) announced an \$18.7 million expansion project in 2014 that will add 22 jobs at its Nevada plant, bringing its total workforce in the state to 1,259.
- **Alliant Techsystems (ATK) Small Caliber Systems** (Independence) operates the Lake City Army Ammunition Plant in Independence, the Defense Department's primary source for military 5.56 mm, 7.62 mm and .50-caliber rifle ammunition.
- NEW** **American Air Filter International** (Columbia) opened a new cleanroom in 2014 for the production of high-end filters used by pharmaceutical companies, hospitals and nuclear power plants around the world, creating 24 jobs.
- NEW** **Automated Motion** (HQ Kansas City), an engineering and manufacturing company, announced plans to expand its Lee's Summit facility in 2013, making a \$1.6 billion capital investment and creating 14 full-time jobs.
- NEW** **Brewer Science** (HQ Rolla), which produces materials for smartphones and tablet computers, completed construction of a new 25,000 square-foot manufacturing facility in 2014 as part of its expansion at the Rolla National Airport, creating 65 jobs.



▪ **Briggs & Stratton** (Poplar Bluff), North America's number one manufacturer of portable generators and pressure washers, is a leading designer, manufacturer, and marketer of lawn and garden and turf care.



NEW ▶ **Calumet Specialty Products** (Louisiana), a leading specialty hydrocarbon producer, announced a significant expansion of its esters production facility in 2013, making a \$40 million capital investment, creating 21 jobs.



NEW ▶ **CertainTeed** (Jonesburg), a leading North American manufacturer of materials for commercial and residential builders, opened a new state-of-the-art, 150,000 square-foot warehouse in 2014. The warehouse is the first phase of a planned \$100 million complex set to open in 2016, which will serve as the Midwestern production and distribution site for all the company's high-performance roofing products, and is expected to create 100 local jobs.



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



▪ **EaglePicher Technologies** (HQ Joplin) produces an array of specialty energy storage technologies, including alternative energy storage systems for utility grid enhancement, and batteries for missiles, submunitions, mines, sonobuoys, fuzes and aerospace power backups. EaglePicher is the only manufacturer of nickel hydrogen batteries (used to power satellites) in the U.S.



▪ **Eaton Cooper Bussman** (St. Louis) manufactures circuit protection products and fuses for the electrical, electronics and transportation industries. The company also makes inductors and transformers for power quality in electronic applications.



▪ **EFCO Corporation** (Monett), a Pella Company, is the country's leading manufacturer of architectural window, door, storefront and curtain wall products for use in a wide range of commercial and institutional building types.



▪ **Emerson Electric Co.** (HQ St. Louis), a Fortune 500 company, makes a host of electrical, electromechanical and electronic products, many of which are used to control gases, liquids and electricity. The 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 the U.S.



▪ **Energizer Holdings** (HQ St. Louis) manufactures and markets a variety of battery types, including lithium, alkaline, carbon zinc, miniature, specialty photo lithium and rechargeable.



NEW ▶ **Fluid Power Support** (HQ Mexico), a steel fabrication company, announced expansion plans that will create 15 jobs and include over \$1.6 million in capital investment.



NEW ▶ **Holland 1916** (HQ Kansas City) recently moved its corporate headquarters to Liberty, making an investment of \$13 million and creating 62 new jobs. The company manufactures and supplies steel and aluminum nameplates and RFID products for customers in the oil and gas industry, as well as clients in the industrial controls, food service, medical and fitness markets.



▪ **Honeywell National Security Campus** (Kansas City) employs more than 2,500 engineers, technicians, skilled trades workers and support personnel dedicated to national security. The modern, state-of-the-art campus encompasses 1.5-million-square-feet of advanced manufacturing, office and laboratory space and is responsible for manufacturing and procuring nonnuclear components for nuclear weapons, including electronic, mechanical, and engineered material components.



▪ **Hussmann Corporation** (HQ St. Louis) manufactures, sells, installs, and services refrigeration systems and merchandising equipment.



NEW ▶ **Marine Electrical Products** (HQ Lebanon), a switch panels and electrical components manufacturer, announced plans to add 15 jobs and make a capital investment of \$749,000.



NEW ▶ **Meramec Electrical Products** (HQ Cuba) engineers and manufactures a broad range of custom-made instrument current transformers for the power transformer and high-voltage circuit breakers markets. The company announced a \$5.7 million expansion in 2014 that will add 47 jobs for new production lines.



NEW ▶ **Moore Gear** (HQ Hermann) announced plans to invest more than \$1.8 million to increase production capacity at its Hermann facility. The project is expected to create 34 new jobs in the next five years. The company manufactures custom gears and gear racks for the industrial, agricultural, machine tool and commercial markets throughout North America.



NEW ▶ **North American Tank** (Ozark) announced plans to expand its operations in 2014, making a \$200,000 capital investment expected to create at least 30 jobs.



NEW ▶ **Patterson Mold and Tool** (St. Charles) announced plans to make a \$4.4 million capital investment to expand its facility, creating 19 high-paying jobs.



▪ **Paul Mueller** (HQ Springfield) manufactures stainless steel tanks, processing systems and equipment for the food, dairy, beverage, chemical, biofuels, pharmaceutical, biotechnology and pure water industries.



▪ **Positronic Industries** (HQ Springfield) manufactures and supplies electronic connectors that are utilized in a variety of industries worldwide including military, aerospace, telecommunications, medical, industrial and test equipment among others.



▪ **Schneider Electric** (Columbia, O'Fallon and West Plains) specializes in electricity distribution and automation management. The Columbia facility, formerly Square D, is the company's center for all low circuit breaker manufacturing. The West Plains facility, formerly Invensys Controls, manufactures gas delivery control systems for a variety of appliances. The company also has a technology center in O'Fallon.



NEW ▶ **Schütz Container Systems, Inc.**, (St. Joseph) a German packaging company with locations worldwide, announced plans to open the company's 10th facility in the United States in St. Joseph. The company will invest about \$20 million in building improvements and equipment and will eventually employ 50 people.



NEW ▶ **Select Plastics** (Scott City), a custom plastic sheet extrusion manufacturer, announced plans to open its first Missouri location in 2014, making a \$5.3 million capital investment that is expected to create 28 jobs.



NEW ▶ **Silgan Plastics Corp.** (HQ St. Louis) announced plans to establish a new facility on the site of the former Ford Motor Co. plant in Hazelwood, which is expected to create 120 jobs. The company also has a manufacturing facility in Scott City.



NEW ▶ **SKF** (St. Louis) announced plans to invest \$34.2 million for a building, plus another \$20 million for personal property, to build an engineering and manufacturing campus for industrial lubrication systems in St. Louis, creating 73 jobs. Sweden-based SKF currently employs 388 people in St. Louis, where their lubrication business unit is based.



NEW **Spectrum Brands Holdings Inc.** (St. Louis) recently announced plans to invest more than \$1 million and create 45 new jobs as it makes St. Louis the home of its newly created Pet, Home & Garden division, which makes weed and bug killer brands, including Black Flag and Hot Shot, as well as a host of pet foods and product brands.



NEW **Staying Home Corporation** (HQ Harrisonville) invested more than \$1.8 million to start operations in Harrisonville in 2013, a plan expected to create over 55 jobs. The company designs and manufactures hideaway bulletproof storm shelters capable of withstanding F-5 tornados.



NEW **Tank Components Industries** (HQ Springfield) announced plans to expand its manufacturing campus in Ozark in 2013, making a \$200,000 capital investment, and creating at least 30 jobs. The company designs and fabricates high-quality bulk liquid transportation truck-mount tanks and tank trailers.



NEW **U.S. Engineering Company** (HQ Kansas City) constructed a new 75,000 square foot fabrication facility in 2013, investing \$2.8 million and adding 85 jobs.



NEW **Watlow Electric Manufacturing** (HQ St. Louis) announced plans to expand its Maryland Heights headquarters in 2014, investing \$30 million to add an additional 30,000 square feet to the company's existing 180,000 square foot building and to remodel 60,000 square feet of existing space to establish an Advanced Technology Center for thermal system component manufacturing.



NEW **Watson Metal Masters** (HQ Springfield) opened a new \$4.8 million manufacturing plant in Republic in 2014 that is expected to create 77 jobs. The company designs and fabricates custom stainless steel tanks and vessels for a variety of industries, including food and beverage, health and beauty and pharmaceuticals.



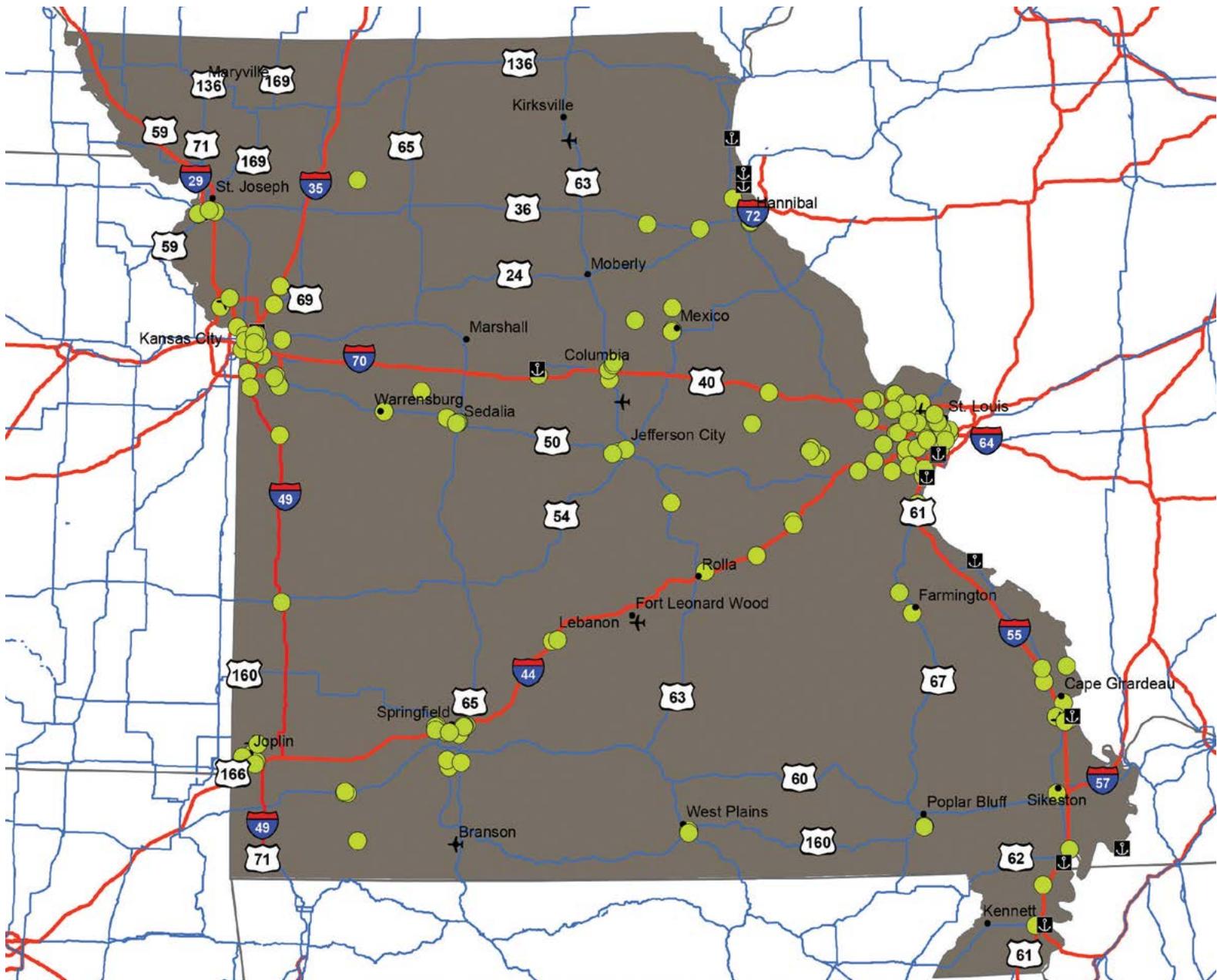
- Download our brochures on [Aerospace Manufacturing](#) and [Automotive Manufacturing](#) to find information about Missouri companies in those sub-sectors.

“Watson Metal Masters is Missouri-born and bred, and we owe a large part of our success to the excellent business climate and the superior workforce that you find right here in southwest Missouri.”

BILL SCHAHUBER, PRESIDENT AND OWNER, WATSON METAL MASTERS

Missouri's major advanced manufacturing companies

- Advanced manufacturing company
- ⚓ Port authority
- ✈ Major airport



Missouri's major advanced manufacturing companies

Company Name	Primary City	Total Employees
3255: Paint, Coating and Adhesive Manufacturing		
3M Co	Springfield	260
3259: Other Chemical Product Mfg		
Brewer Science, Inc	Rolla	270
Calumet Missouri, LLC	Louisiana	128
3261: Plastics Product Manufacturing		
3M Co	Nevada	640
Alpha Packaging	St. Louis	245
Blair Packaging, Inc	Cape Girardeau	196
Buckhorn, Inc	Springfield	187
CAPS, Inc	Bridgeton	200
CertainTeed	Jonesburg	NA
Continental Commercial Products, LLC	Bridgeton	250
Continental Products	Mexico	200
Diversified Plastics Corp	Nixa	300
Federal International, Inc	St. Louis	322
Hilex Poly Co, LLC	St. Louis	150
Jackson Mondri, Inc	Jackson	415
Koller Enterprises, Inc	Fenton	331
Meramec Group, Inc	Sullivan	200
Mondi Jackson (Nordenia)	Jackson	325
Peterson Manufacturing Co	Grandview	160
Plastic Enterprises Co, Inc	Lees Summit	200
Revere Plastics Systems	Poplar Bluff	160
Rexam Closures & Containers	Union	200
Select Plastics	Scott City	20
Semco Plastic Co	St. Louis	250
Silgan Plastics	Hazelwood	NA
Silgan Plastics	Scott City	15
SINCLAIR & RUSH, Inc	Arnold	300
SRG Global	Portageville	440
SRG Global	Farmington	35
The Swan Corp	St. Louis	290
Variform, Inc	Kearney	275
Buckhorn Rubber Products	Hannibal	300
Gates Corp	Poplar Bluff	515
3313: Alumina and Aluminum Production		
Noranda Aluminum, Inc	New Madrid	700
Sapa Extrusions, Inc	Monett	265
The Loxcren Company, Inc	Hayti	150
3314: Other Nonferrous Metal Production		
Alan Wire Co	Sikeston	210
Belden, Inc	St. Louis	334
Cerro Flow Products, LLC	Shelbina	200
Rapcohorizon Co	Jackson	155
3315: Foundries		
Bradken, Inc	Kansas City	395
Carondelet Corp	Pevely	250
Continental Casting, LLC	Monroe City	250
Continental Casting, LLC	Palmyra	150
JW Aluminum Co	St. Louis	250
Matthews International Corp	Kansas City	198
Metal Exchange Corp	St. Louis	321
O'Fallon Casting, LLC	O'Fallon	195
Spartan Light Metal Products, Inc	Mexico	225
3323: Architectural & Structural Metals Manufacturing		
Architectural Systems, Inc	Monett	200
Bohn and Dawson, Inc	St. Louis	170
Canam Steel Corp	Washington	160
Ctb, Inc	Kansas City	150
Delong's, Inc	Jefferson City	170
EFCO Corp	Monett	1,350
Fluid Power Support	Mexico	25
ITW Building Components Group, Inc	Earth City	350
Landmark Manufacturing Corporation	Gallatin	200
MiTek USA, Inc	Chesterfield	250
MiTek USA, Inc	Saint Charles	150
Quaker Window Products Co	Freeburg	450
Schaefer's Electrical Enclosures, Inc	Scott City	165
Stainless Fabrication, Inc	Springfield	170
US Engineering Co	Kansas City	150

Company Name	Primary City	Total Employees
(Cont.) 3323: Architectural & Structural Metals Mfg		
Varco-Pruden Buildings (BlueScope Buildings North America)	St. Joseph	459
Western Forms, Inc	Kansas City	292
Winco Manufacturing, Inc	St. Louis	170
3324: Boiler, Tank, and Shipping Container Manufacturing		
ABEC, Inc (formerly Stainless Technology)	Springfield	60
Metal Container Corp	Arnold	175
Metal Container Corp	St. Louis	160
North American Tank	Ozark	25
Polar Tank Trailers	Springfield	200
Silgan Containers Manufacturing Corp	Saint Joseph	170
Tank Components Industries	Springfield	37
3329: Other Fabricated Metal Product Manufacturing		
American Standard	Nevada	160
ATK Small Caliber Systems	Independence	2,600
Continental Disc Corp	Liberty	367
Gerald Industries, Inc	Gerald	320
Holland 1916, Inc	Liberty	51
Magnet, LLC	Washington	425
Schaeffler Group USA, Inc	Joplin	293
Sierra Bullets, LLC	Sedalia	150
Standard Machine & Manufacturing Co	St. Louis	200
Watson Metal Master, Inc	Nixa	30
3333: Commercial and Service Industry Machinery		
Duke Manufacturing	Sedalia	300
Duke Manufacturing Co	St. Louis	501
Duke Manufacturing Co	St. Louis	200
Newco Enterprises, Inc	St. Charles	160
Paul Mueller Co	Springfield	577
Seiler Instrument and Manufacturing Co, Inc	St. Louis	190
Star International Holdings, Inc	St. Louis	288

3334: HVAC and Commercial Refrigeration Equipment

American Air Filter	Columbia	200
Ces Group, LLC	Springfield	218
Hussmann Corp	Bridgeton	900
Industrial Engineering & Equipment Co, Inc	St. Louis	315
Modine Manufacturing Co	Jefferson City	270
Modine Manufacturing Co	Joplin	160
Modine Manufacturing Co	Trenton	150
Nordyne, LLC	Boonville	200
Parker Sporlan Div	Washington	280
Semco Duct and Acoustical Products, Inc	Columbia	105
Trane	St. Louis	150
True Manufacturing Co, Inc	O'Fallon	400
United Technologies Corp	Hazelwood	214
Watts Radiant, Inc	Springfield	150

3335: Metalworking Machinery Manufacturing

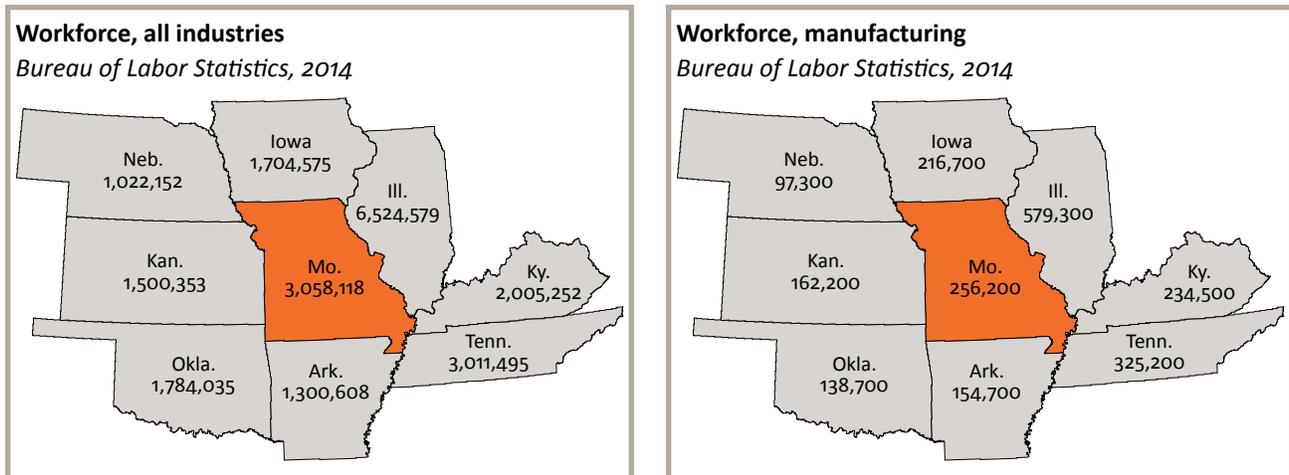
Carr Lane Manufacturing Co	St. Louis	150
Central Rolled Thread Die Co	St. Charles	150
Patterson Mold & Tool	St. Charles	70
R & D Tool & Engineering Co	Lees Summit	254
Roto-Die Company, Inc	Eureka	157
Sunnen Products Co	St. Louis	440
U. S. Tool Grinding, Inc	Farmington	450

3336: Turbine and Power Transmission Equipment Mfg

Briggs & Stratton Corp	Poplar Bluff	840
Moore Gear	Hermann	58
Springfield Remanufacturing Corp	Springfield	350

Company Name	Primary City	Total Employees
3339: Other General Purpose Machinery Mfg		
Aerofil Technology, Inc	Sullivan	400
Automatic Systems, Inc	Kansas City	168
Barry-Wehmiller Group, Inc	St. Louis	165
Blount International, Inc	Kansas City	220
Cardinal Scale Manufacturing Co	Webb City	450
Clayton Corp	Fenton	226
Gardner Denver, Inc	Sedalia	250
Gray Manufacturing Co, Inc	St. Joseph	172
Shick Tube Veyor Corp	Kansas City	150
SKF (Lincoln Industrial Corp)	St. Louis	415
Tuthill Vaccums And Blowers Systems	Springfield	258
Watlow Missouri, Inc	Hannibal	300
Watlow Missouri, Inc	Columbia	200
3344: Semiconductor & Other Electronic Component Manufacturing		
3M Co	Columbia	500
Diodes Fabtech, Inc	Lees Summit	250
Eaton Cooper Bussmann	Ellisville	850
Laird Technologies, Inc	Earth City	150
Midcon Cables Co, Inc	Joplin	175
SunEdison, Inc	St. Peters	1,200
3345: Electronic Instrument Manufacturing		
ABB, Inc	Jefferson City	900
Aclara Technologies, LLC	Hazelwood	200
Bitrode Corp	St. Louis	150
Digital Concepts Of Missouri, Inc	Maryland Heights	245
Ducommun Labarge Technologies, Inc	Joplin	350
Honeywell Federal Mfg & Tech	Kansas City	2,600
3353: Electrical Equipment Manufacturing		
ABB, Inc	St. Louis	210
Accent Controls, Inc	Riverside	200
Aurora Technologies, Inc	Pacific	150
Automated Motion, Inc	Lees Summit	35
C G Power Systems USA, Inc	Washington	465
DRS Marlo Coil	High Ridge	200
Eaton Cooper Bussmann	Ellisville	850
Emerson Electric Co	St. Louis	1,000
Meramec Electrical Products, Inc	Cuba	125
Motor Appliance Corp	Washington	150
Nidec Motor Corp	St. Louis	400
Regal Beloit America, Inc	Cassville	400
Regal Beloit America, Inc	West Plains	242
Schneider Electric, USA, Inc	O'Fallon	170
Schneider Electric, USA, Inc (Invensys)	West Plains	306
Schneider Electric, USA, Inc (Square D)	Columbia	400
The Durham Co	Lebanon	353
Watlow Electric Manufacturing Co	St. Louis	500
3359: Other Electrical Equipment and Component Manufacturing		
Connector Castings, Inc	St. Louis	185
Eaglepicher Technologies, LLC	Joplin	1,250
Energizer Holdings, Inc	St. Louis	250
Energizer Holdings, Inc	Maryville	798
Energizer Holdings, Inc	Warrensburg	475
General Cable	Sedalia	240
Hubbell Cable Accessories	Centralia	157
Killark Electric Manufacturing Co	St. Louis	330
Marine Electrical Products	Lebanon	230
Milbank Manufacturing Co	Kansas City	300
NorthStar Battery Co, LLC	Springfield	360
NorthStar Battery Co, LLC	Springfield	150
Positronic Industries, Inc	Springfield	600
Staying Home Corp	Harrisonville	4
Zoltek Co, Inc	Bridgeton	40
3361: Plastics Product Manufacturing		
Schutz Container Systems, Inc	St. Joseph	NA

REASON #2: Missouri's workforce is ready for advanced manufacturing.



- Access to skilled labor means higher productivity, higher quality of product, and higher profits for Missouri companies. With a workforce of more than three million, Missouri has a tremendous resource for growing businesses.
- Education and training enhances Missouri's workforce profile with nearly 140 degree-granting institutions statewide.
- Missouri's labor force exceeds the entire populations of 20 states, including neighboring Kansas, Arkansas and Nebraska.
- Manufacturing employs 256,200 Missourians in over 6,600 establishments, making up 9.4 percent of the state's total employment (*BLS, 2014*).
- Over 4,000 degrees in engineering related fields are awarded each year in the state (*National Center For Education Statistics, 2013*).
- Missouri ranked 4th in 2014 for number of completed apprenticeships, with over 7,000 total apprentices enrolled, according to the U.S. Dept. of Labor.
- In 2012, Missouri was selected as one of the first four states to participate in the **Certified Work Ready Communities** initiative by American College Testing (ACT), and now leads the nation in the number of fully certified counties. The initiative aligns workforce training programs with the economic development needs of communities; matches appropriate applicants to jobs based on skill level; and strengthens businesses by strengthening the workforce.

Advanced manufacturing workforce

- Advanced manufacturing wages in Missouri are 12 percent lower than the U.S. average (*BLS, Quarterly Census of Employment and Wages, 2nd quarter, 2013–2014*).
- 108,077 Missourians are employed in advanced manufacturing positions, accounting for 42.2 percent of the state's total manufacturing jobs (*BLS, Quarterly Census of Employment and Wages, 2nd quarter, 2013–2014*).

Completed apprenticeships in FY2014

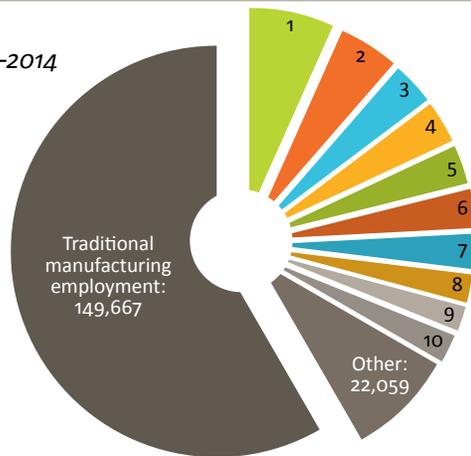
U.S. Department of Labor



Missouri's top advanced manufacturing sectors by employment

BLS, Quarterly Census of Employment and Wages, 2nd quarter, 2013–2014

1. Aerospace product and parts: 17,801
2. Plastic products: 11,785
3. HVAC and commercial refrigeration equipment: 8,739
4. Motor vehicle parts mfg.: 8,491
5. Motor vehicle mfg.: 7,943
6. Other fabricated metal and product mfg.: 7,764
7. Architectural and structural metals mfg.: 7,429
8. Semiconductor and electronic component mfg.: 5,766
9. Other electrical equipment and component mfg.: 5,157
10. Metalworking machinery mfg.: 5,143



Missouri's fastest growing advanced manufacturing employment sectors from 2013–2014

Sector	Employment	Percent growth
Semiconductor and electronic component mfg.	5,766	72%
Motor vehicle mfg.	7,943	57%
Boiler, tank, and shipping container mfg.	3,086	31%
Scientific research and development	7,578	13%
Rubber product manufacturing	3,544	7%

Source: BLS, Quarterly Census of Employment and Wages, 2nd quarter, 2013–2014

Manufacturing occupation information

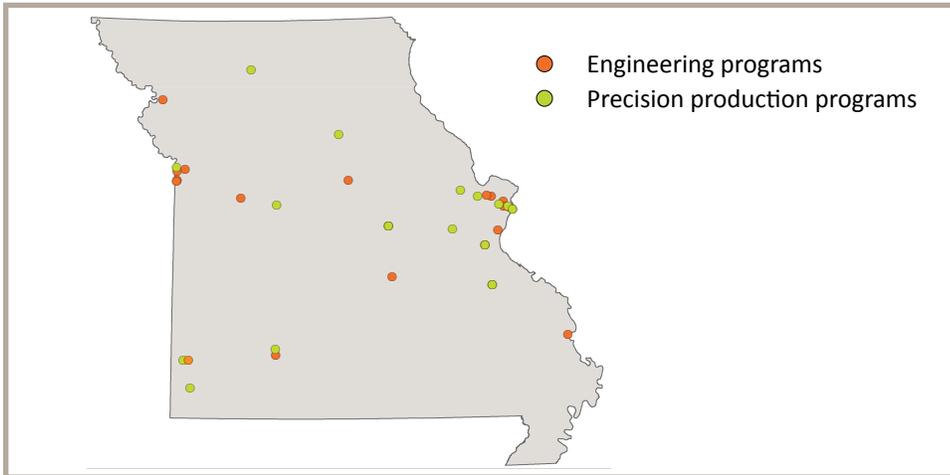
Occupation code	Occupation title	Missouri employment	Missouri median hourly wage	Illinois median hourly wage	Kansas median hourly wage	U.S. median hourly wage
00-0000	All Occupations	2,673,640	\$15.76	\$17.59	\$15.83	\$17.09
17-2141	Mechanical Engineers	3,590	\$36.83	\$38.26	\$33.39	\$39.93
17-3027	Mechanical Engineering Technicians	1,020	\$23.50	\$25.75	\$24.27	\$25.74
51-0000	Production Occupations	190,870	\$14.81	\$15.29	\$15.75	\$15.25
51-1011	First-Line Supervisors of Production and Operating Workers	12,070	\$24.37	\$27.28	\$25.98	\$26.69
51-2031	Engine and Other Machine Assemblers	710	\$17.13	\$17.36	\$17.88	\$18.42
51-2041	Structural Metal Fabricators and Fitters	2,160	\$21.25	\$17.85	\$18.25	\$17.58
51-2091	Fiberglass Laminators and Fabricators	450	\$12.19	\$11.85	\$13.05	\$13.92
51-2092	Team Assemblers	26,360	\$14.29	\$13.22	\$16.09	\$13.64
51-2099	Assemblers and Fabricators, All Other	6,350	\$10.86	\$11.11	\$13.65	\$12.68
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	3,850	\$16.42	\$17.87	\$16.12	\$17.52
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	1,520	\$13.31	\$14.64	\$16.19	\$15.68
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	310	\$14.77	\$16.74	\$16.39	\$16.59
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,170	\$14.79	\$18.30	\$17.52	\$17.43
51-4041	Machinists	5,950	\$18.14	\$18.04	\$18.21	\$19.22
51-4071	Foundry Mold and Coremakers	220	\$14.65	\$16.32	\$16.28	\$15.07
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2,110	\$14.11	\$18.63	\$17.57	\$16.42
51-4121	Welders, Cutters, Solderers, and Brazers	6,850	\$17.71	\$17.03	\$16.36	\$17.99
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	750	\$15.77	\$15.11	\$16.18	\$16.91
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	270	\$12.91	\$15.16	\$16.76	\$16.98
51-9022	Grinding and Polishing Workers, Hand	490	\$14.09	\$14.02	\$13.22	\$13.63

Source: Bureau of Labor Statistics, *Occupational Employment and Wage Estimates, May 2014*

“Ozark is home to a technically-skilled workforce that has allowed North American Tank to manufacture the type of high-quality product that our customers have grown to expect. Expanding here means increasing hiring, increasing production, and increasing opportunities for North American Tank—we’re very eager for this next phase in our company.”

JIM MOHAN, PRESIDENT, NORTH AMERICA TANK

Educational and training assets for advanced manufacturing



Colleges offering precision production Associate's degree or certificate programs

- Crowder College (Neosho)
- East Central College (Union)
- Jefferson College (Hillsboro)
- 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 and Wentzville)
- St. Charles Community College
- St. Louis Community College
- State Fair Community College (Sedalia)
- State Technical College of Missouri (Linn)
- Vatterott College (St. Louis)

Missouri colleges offering advanced manufacturing related engineering or engineering technology degrees

Color indicates degree programs offered

Associate's: ■

Bachelor's: ■

Master's: ■

PhD: ■

- DeVry University (Kansas City) ■■
- ITT Technical Institute (Arnold, Earth City, Kansas City, Springfield) ■■
- Jefferson College (Hillsboro) ■
- Mineral Area College (Park Hills) ■
- Missouri Tech (St. Charles) ■■
- Missouri Southern State University (Joplin) ■■
- Missouri University of Science and Technology (Rolla) ■■■
- Pinnacle Career Institute (Kansas City) ■
- Southeast Missouri State University (Cape Girardeau) ■
- Saint Louis University ■■■
- Saint Louis Community College ■
- State Technical College of Missouri (Linn) ■
- University of Central Missouri ■
- University of Missouri (Columbia) ■■■
- University of Missouri-Kansas City ■■■
- University of Missouri-St. Louis (joint program with Washington University in St. Louis) ■
- Washington University in St. Louis ■■■

“We looked at all of our facilities across the U.S. and we chose Columbia because of the local support, the local workforce and, frankly, the work ethic in Columbia.”

PETER KURTO, CEO, AMERICAN AIR FILTER INTERNATIONAL

Knowledge centers for advanced manufacturing

Click on the *orange text* for more information.

- The **Emerson Center for Engineering Manufacturing** at St. Louis Community College 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 and design and skilled trades.
- The **Institute of Materials Science & Engineering** at Washington University in St. Louis integrates and leverages the full potential of interdisciplinary materials research by bringing together more than 30 researchers from engineering, physics, chemistry and earth and planetary sciences.

- The [Missouri Industrial Assessment Center](#) at the University of Missouri in Columbia offers energy audit and productivity assessment to qualified small-to-medium sized manufacturing companies.
- The [Missouri State University Center for Applied Science and Engineering \(CASE\)](#) at the Jordan Valley Innovation Center in Springfield develops and supports advanced materials research in carbon based electronics and devices, materials research and characterization, various MEMS sensors and systems fabrication.

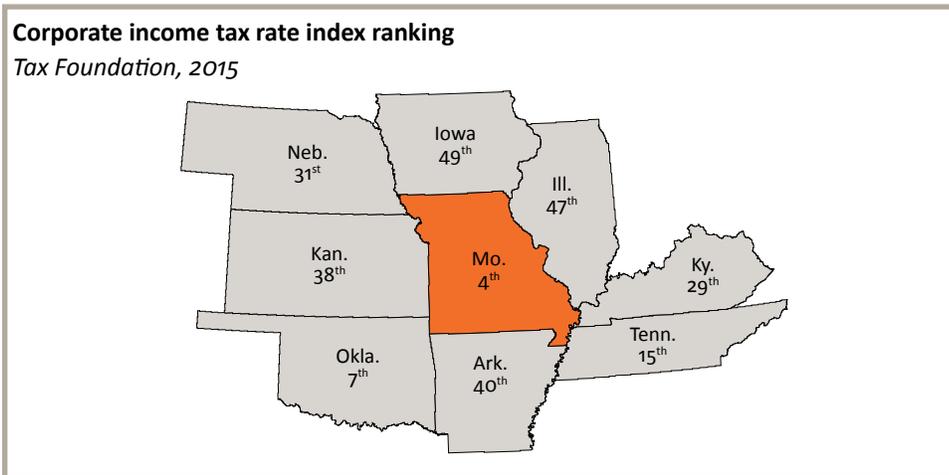
Centers at Missouri University of Science and Technology (Missouri S&T):

- The [Center for Intelligent Maintenance Systems](#) provides an opportunity for cooperative research between Missouri S&T researchers and industrial partners bridging the gap in monitoring/diagnostic/prognostic tools for industrial application. The center has collaborated with such industrial partners as Caterpillar, Chevron, Honeywell and Boeing.
- The [Intelligent Systems Center](#) performs basic and applied research to address technology issues of intelligent systems for manufacturing and energy applications.
- The [Materials Research Center](#) conducts research in fundamental science and applied engineering, including the development, evaluation, application and understanding of metals, polymers, biomaterials, electronic materials and composites.

Other resources

- [Missouri Enterprise](#) provides manufacturing, engineering and business optimization services for Missouri companies.

REASON #3: A low-cost, pro-business environment helps companies prosper.



- Missouri ranks among the top 10 states for regulatory environment (*Forbes*, 2014).
- Missouri has been ranked a top 10 pro-business state for five years in a row (*Pollina Corporate Real Estate*, 2014).
- Missouri's industrial electricity costs are 13 percent lower than the national average (*EIA*, 2014).
- Missouri is a tax-friendly state, ranking in the top 10 for property tax index and corporate income tax index (*Tax Foundation*, 2015).
- Missouri has the fourth most diverse economy in the U.S. with a GDP over \$276 billion (*BEA*, 2013) and exports totaling over \$14.1 billion (*International Trade Administration*, 2014).
- Missouri has over 80 available 50+ acre rail served sites and more than 400 available industrial facilities with more than 50,000+ square feet (*LocationOne as of 5/12/2015*).

Tax exemptions for manufacturers

Manufacturers locating in Missouri enjoy numerous tax advantages, including:

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

State and local incentives that can be utilized:

- Achievable minimum thresholds
- 100% retained withholdings
- Fully refundable state tax credits
- Flexible employee training programs
- Infrastructure assistance
- Property tax abatement
- Exemptions

REASON #4: Missouri puts you close to customers and suppliers.

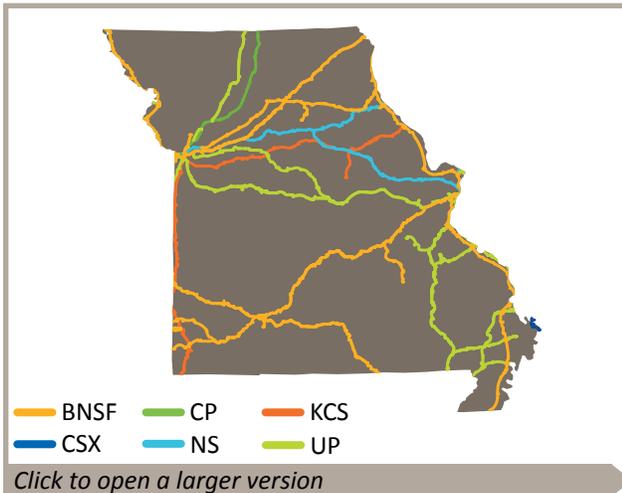


“Investing in Scott City is a smart business strategy. We were impressed by all the resources Missouri has to offer from a central geographical location to a low-tax environment. But the real selling point was the wide availability of highly-skilled workers that will help make our expansion to the Midwest a true success.”

GREG NAGEL AND STEVE PLOEGER, MANAGING PARTNERS, SELECT PLASTICS

- 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 53 percent of U.S. manufacturing establishments (*BLS, 2014 and Census Bureau, 2013*).
- Missouri is within 600 miles of many of the nation’s fastest growing metros, including: Atlanta, Austin, Charlotte, Dallas, Denver, Houston, Nashville, Oklahoma City and San Antonio (*Census Bureau, 2014*).
- 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.

REASON #5: Missouri's top-ranked transportation network is a dependable delivery system for goods and services.

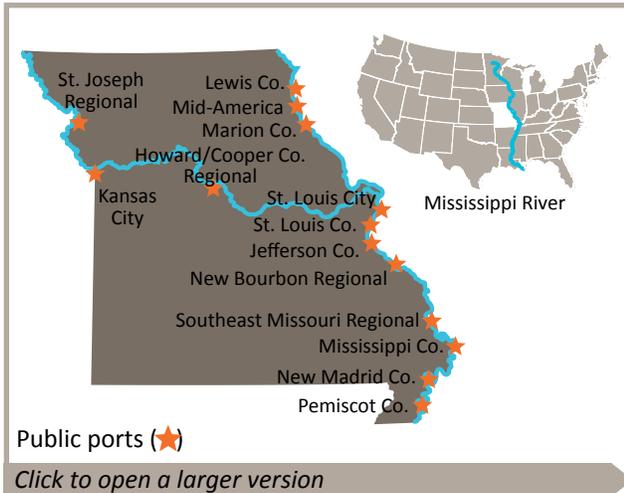


Rail

- Missouri is one of the few states that can provide rail access to both east and west coasts. The Show-Me state also 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).
- Missouri is ranked 4th in tons and 3rd in rail carloads carried by state (*Association of American Railroads*).
- Missouri ranks in the top 10 for U.S. railroad mileage, with two of the largest U.S. rail terminals and nearly 4,000 miles of track throughout the state (*Association of American Railroads*).
- The 1,340 acre CenterPoint KCS Intermodal center includes a 1,000 acre industrial park located directly adjacent to the newly opened Kansas City Southern Intermodal Facility. With infrastructure in place, these sites are build-ready for facilities up to a million square feet. KCS offers direct rail service to points along their north/south network in the U.S. and Mexico, including the natural deepwater Port of Lazaro Cardenas, Mexico.

Roads

- Missouri has one of the least congested transportation networks in the United States and the 6th largest public road and highway system (*Federal Highway Administration, 2012*).
- Major interstates include: I-64, I-44, I-70, I-55, I-35, I-49 and I-29.
- I-70, which bisects Missouri, is over 2,000 miles long and passes through 10 states.
- I-29 and I-35 are located within the NAFTA corridor, providing easy access to Canada and Mexico.
- There are more than 110,000 commercial trailers registered in Missouri (*Bureau of Transportation Statistics, 2011*).



Waterways

- Missouri is ranked 10th for inland waterway mileage (1,000 miles), moving an average of \$4.1 billion in cargo annually (*Source for mileage: Bureau of Transportation Statistics, cargo: Missouri Port Authorities*).
- 29 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*).

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 approximately 130 public airports, two of which support international traffic: Lambert-St. Louis International and Kansas City International.
- Springfield, Branson, Joplin, Columbia, Cape Girardeau, Kirksville, Waynesville (Fort Leonard Wood), St. Louis and Kansas City also offer commercial service.
- Missouri has three U.S. Customs Ports of Entry: Kansas City, Springfield and St. Louis.

Foreign Trade Zones

- Missouri has three foreign trade zones: 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 Business Centre includes 800 acres of multi-use land for development on the airfield, designated FTZ and Enhanced Enterprise Zone.

The Missouri Partnership focuses on recruiting new business to the state, and is a non-profit organization supported by the Missouri Department of Economic Development and the Hawthorn Foundation.

To find out how the Missouri Partnership can assist at any stage of your project, please contact us by:

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