
Michigan's 2022 Industry and Occupational Employment Projections

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Total employment Michigan is expected to increase 8.7 percent between 2012 and 2022, an increase of 371,000 jobs. While slightly below a 10.8 percent projected gain nationally for the same period, the Michigan long-term outlook indicates job growth across a number of industry sectors and occupational groups, which are highlighted in the analysis that follows.

Industry Projections - Michigan's total employment level is anticipated to rise by over 371,000 jobs (8.7 percent) between 2012 and 2022, according to the Department of Technology, Management and Budget's (DTMB) Bureau of Labor Market Information and Strategic Initiatives. While a sizeable portion of this growth has been realized since 2012, with estimates from other state data indicating a total nonfarm job gain of roughly 146,000 between 2012 and 2014, overall employment gains are expected to continue through 2022, though slow somewhat near the end of the forecast period. If U.S. economic growth slows at some point later in the projections period, it could lessen the pace of post-recessionary employment gains the state has enjoyed in recent years and even result in some late intra-period job losses in some sectors and occupations.

DTMB projects that more than half of all new jobs in the state during the 2012-2022 forecast period will be the result of increases in two industry

supersectors: *Educational and Health Services* (28 percent of all new jobs) and *Professional and Business Services* (26 percent of all new jobs).

The vast majority of job gains in *Educational and Health Services* is expected to come from *Health Care and Social Assistance*, which includes an anticipated 41,000 new jobs alone in the

Ambulatory health care services industry. Overall, *Health Care and Social Assistance* is expected to rise by roughly 15 percent between 2012 and 2022, a gain of over 91,000 jobs.

In the projections data,

these sectors all include public sector employment as well, which differs from ownership treatment in other Bureau of Labor Statistics (BLS) employment data series that categorize state and local government education as well as state hospitals in the *Government* supersector.

Other notable supersectors expecting to add jobs through the forecast period include *Trade, Transportation and Utilities* (10 percent of new

Healthcare Support Occupations top the list of fastest-growing occupational groups in Michigan through 2022, expecting to grow over twice the rate for total jobs overall.

jobs) and nine percent each for *Manufacturing* and *Leisure and Hospitality* (Table 1).

In *Trade, Transportation and Utilities*, job gains are expected to be concentrated in *Retail Trade* (15,700 new jobs), *Wholesale Trade* (11,700 new jobs) and *Transportation and Warehousing* (10,700

new jobs). However, these are somewhat conservative estimates as these sectors could see slightly more upside depending on Michigan's housing market and demand for domestic automobiles. Employment in *Utilities*, also found in this supersector, is expected to decline through 2022.

Table 1. Employment by major industry sector, 2012 and projected 2022

Industry Super-Sector	Employment		Employment Change		
	2012	2022	10-Year Numeric	10-Year Percent	Annual Growth Rate
Total, All Industries	4,285,470	4,656,930	371,460	8.7%	0.8%
Total Self-Employed and Unpaid Family Workers	200,740	217,460	16,720	8.3%	0.8%
Natural Resources and Mining	59,340	62,270	2,930	4.9%	0.5%
Construction	127,790	152,980	25,190	19.7%	1.8%
Manufacturing	535,980	569,430	33,450	6.2%	0.6%
Trade, Transportation, and Utilities	727,440	764,750	37,310	5.1%	0.5%
Information	53,170	54,260	1,090	2.1%	0.2%
Financial Activities	195,390	210,320	14,930	7.6%	0.7%
Professional and Business Services	578,600	675,940	97,340	16.8%	1.6%
Educational and Health Services	982,630	1,085,570	102,940	10.5%	1.0%
Leisure and Hospitality	387,450	419,070	31,620	8.2%	0.8%
Other Services (Except Government)	179,060	195,190	16,130	9.0%	0.9%
Government	257,900	249,680	-8,220	-3.2%	-0.3%

Source: Industry Long-Term Employment Projections 2012-2022

Manufacturing growth is predicted to be driven largely by automobile and automobile parts producers. Overall, the supersector is expected to expand by only 6.2 percent through 2022, though *Durable Goods Manufacturing* is forecast to outpace that at 8.2 percent growth for the overall period. *Transportation equipment manufacturing* is predicted to add over 20,000 jobs for a roughly 13 percent increase during the period.

The state's *Construction* sector enjoyed fairly robust post-recessionary job increases through 2014, gaining roughly 9 percent since 2012. But

while there are expectations of a housing recovery and anticipated construction activity in non-residential subsectors, including heavy and civil engineering projects, overall employment growth in the sector is expected to slow overall. For the period 2012-2022, DTMB expects a job gain of just under 20 percent, with almost two-thirds of new jobs in the *Construction* supersector coming in *Specialty trades contractors* (16,300 new jobs, 19 percent gain through 2022).

Occupational Projections - *Healthcare Support Occupations* top the list of fastest-growing occupational groups in Michigan through 2022, expecting to grow roughly 18 percent or over twice the rate for total jobs overall (**Table 2**). Nearly all detailed occupations within this group are projected to grow at double-digit rates for the forecast period, with *Home Health Aides* (+33 percent through 2022), *Medical Assistants* (+15

percent), and *Nursing Assistants* (+13 percent) being among the more notable jobs in this category. *Healthcare Practitioners and Technical Occupations* also are expected outpace the all-occupation average with a forecasted increase of 13 percent. Within this group, *Registered Nurses*, *Licensed Practical Nurses*, *Physicians and Surgeons* and *Pharmacy Technicians* all expect ample increases in jobs through the forecast period.

Table 2. Employment by major occupational group, 2012 and projected 2022

Occupational Category	Employment		Employment Change		Total Average Annual Openings
	2012	2022	10-Year Numeric	10-Year Percent	
Total, All Occupations	4,285,470	4,656,930	371,460	8.7%	139,517
Management Occupations	253,350	276,010	22,660	8.9%	7,374
Business and Financial Operations Occupations	196,750	218,610	21,860	11.1%	6,020
Computer and Mathematical Occupations	99,610	115,610	16,000	16.1%	3,231
Architecture and Engineering Occupations	121,630	136,110	14,480	11.9%	4,591
Life, Physical, and Social Science Occupations	31,260	34,220	2,960	9.5%	1,226
Community and Social Service Occupations	64,360	71,460	7,100	11.0%	2,238
Legal Occupations	26,380	28,610	2,230	8.5%	650
Education, Training, and Library Occupations	263,300	281,120	17,820	6.8%	7,198
Arts, Design, Entertainment, Sports, and Media Occupations	59,460	64,090	4,630	7.8%	1,919
Healthcare Practitioners and Technical Occupations	272,450	307,000	34,550	12.7%	9,028
Healthcare Support Occupations	147,890	174,720	26,830	18.1%	5,511
Protective Service Occupations	78,200	81,010	2,810	3.6%	2,490
Food Preparation and Serving Related Occupations	352,120	381,470	29,350	8.3%	16,126
Building and Grounds Cleaning and Maintenance Occupations	144,020	157,340	13,320	9.2%	4,270
Personal Care and Service Occupations	131,770	146,950	15,180	11.5%	4,520
Sales and Related Occupations	432,080	455,940	23,860	5.5%	15,353
Office and Administrative Support Occupations	631,760	654,400	22,640	3.6%	17,685
Farming, Fishing, and Forestry Occupations	35,610	36,680	1,070	3.0%	1,130
Construction and Extraction Occupations	132,010	152,130	20,120	15.2%	4,287
Installation, Maintenance, and Repair Occupations	156,940	173,330	16,390	10.4%	5,273
Production Occupations	404,960	439,970	35,010	8.6%	11,544
Transportation and Material Moving Occupations	249,570	270,170	20,600	8.3%	7,856

Source: Occupational Long-Term Employment Projections 2012-2022

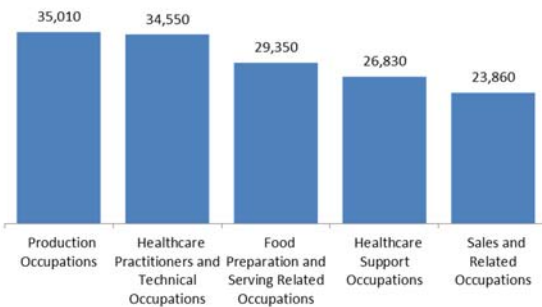
The prevalence of STEM-related (Science, Technology, Engineering and Mathematics) growth is apparent in the Michigan 2022 occupational projections as well. Two highly-relevant

occupational groups in this respect are *Computer and Mathematical Occupations* and *Architecture and Engineering Occupations*, each of which are expected to record total-period growth in the

double digits and add over 30,000 new jobs combined between 2002 and 2012. Additionally, 7,800 job opportunities are projected annually across these two categories when replacement openings are factored in to the mix.

Although the *Production Occupations* group is expected to grow at only an average pace, the prevalence of automotive manufacturing in Michigan continues to push this group higher than all others in terms of the number of expected new jobs between 2012 and 2022 (**Chart 1**).

Chart 1. Occupational groups with most new jobs through 2022 (number of new jobs)



Source: Occupational Long-Term Employment Projections 2012-2022

This group is expected to add about 35,000 new jobs during the forecast period, and is expected to provide 11,500 total openings each year, on

average, when replacement jobs are taken into account.

Food Preparation and Service Occupations and *Sales and Related Occupations* round out the top five occupational groups in terms of new jobs, though these tend to be lower-than-average pay positions overall.

Combined, the top five occupational groups in terms of new jobs will account for four out of every five new jobs statewide during the forecast period and a slightly higher share of overall job opportunities annually (which include replacement jobs).

Want more information?

Michigan's Long-Term Industry and Occupational Employment Projections are produced biennially under the Bureau of Labor Statistics guidelines and administered by the national Projections Managing Partnership program. These projections are important for decision makers at all levels, including educators, workforce and economic developers, jobseekers, and numerous state and local agencies. For a complete listing of Long-Term Industry and Occupational Employment projections please visit www.michigan.gov/lmi.

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