

Science and engineering profile: Michigan

Characteristic	State	U.S. total	Rank
Employed SEH doctorate holders, 2006	17,900	620,140	12
S&E doctorates awarded, 2006	1,066	29,854	9
Engineering (%)	29	24	–
Life sciences (%)	22	26	–
Social sciences (%)	15	14	–
SEH postdoctorates in doctorate-granting institutions, 2006	1,373	49,201	9
SEH graduate students in doctorate-granting institutions, 2006	18,885	542,073	9
Population, 2007 (thousands)	10,072	305,563	8
Civilian labor force, 2007 (thousands)	5,020	154,046	8
Personal income per capita, 2006 (\$)	33,784	36,629	27
Federal spending			
Total expenditures, 2005 (\$millions)	64,787	2,260,098	10
R&D obligations, 2005 (\$millions)	1,105	106,845	23
Total R&D performance, 2005 (\$millions)	18,372	310,194	2
Industry R&D, 2005 (\$millions)	16,752	222,427	2
Academic R&D, 2006 (\$millions)	1,473	47,735	11
Life sciences (%)	61	60	–
Engineering (%)	16	15	–
Social sciences (%)	9	4	–
SBIR awards, 2000–06	802	38,825	13
Utility patents issued to state residents, 2006	3,758	89,820	5
Gross domestic product, 2006 (\$billions)	381	13,235	9

– = no value possible.

S&E = science and engineering; SEH = science, engineering, and health; SBIR = small business innovation research.

NOTES: Rankings and totals are based on data for the 50 states, District of Columbia, and Puerto Rico. Rankings are based on unrounded totals; they do not account for margin of error of estimates from sample surveys. Employed SEH doctorate holders include only recipients of U.S. doctoral degrees. State estimates for employed SEH doctorate holders may have large sampling errors because the source for these data, the Survey of Doctorate Recipients, was not designed to provide a sample for estimates at the state level; these data are classified by the state where the doctorate holder resides, if known; otherwise, data are classified by employer's location.

Federal obligations for research and development, by agency and performer: Michigan, FY 2005 (Thousands of dollars)

Agency	Performer						Rank	
	Total	Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		State, local governments
All agencies	1,105,199	114,064	0	204,043	732,720	50,203	4,169	23
Department of Agriculture	31,140	6,580	0	0	24,560	0	0	25
Department of Commerce	19,041	6,100	0	10,944	1,997	0	0	13
Department of Defense	310,867	93,351	0	156,229	47,337	13,313	637	24
Department of Energy	35,057	0	0	4,982	28,436	1,639	0	21
Department of Health and Human Services	541,394	634	0	21,032	481,577	34,891	3,260	11
Department of Homeland Security	3,126	407	0	491	2,228	0	0	25
Department of the Interior	5,979	5,361	0	0	396	0	222	20
Department of Transportation	2,834	0	0	1,376	1,458	0	0	18
Environmental Protection Agency	6,884	1,631	0	225	4,648	330	50	16
National Aeronautics and Space Administration	23,348	0	0	6,484	16,864	0	0	22
National Science Foundation	125,529	0	0	2,280	123,219	30	0	8
Rank	23	24	–	27	9	19	25	–

– = no value possible.

FFRDC = federally funded research and development center.

NOTES: Federal R&D obligations are as reported by funding agencies. Rankings and totals are based on data for the 50 states, District of Columbia, and Puerto Rico.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Statistics. Data compiled from numerous sources; see the section, "Data Sources for Science and Engineering State Profiles".