

Science and engineering profile: Ohio

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	19,300	566,330	10
Doctoral engineers, 2003	4,660	118,540	8
S&E doctorates awarded, 2005	1,041	27,974	8
Engineering (%)	29	23	-
Life sciences (%)	25	26	-
Physical sciences (%)	16	13	-
S&E and health postdoctorates in doctorate-granting institutions, 2005	1,115	48,601	15
S&E and health graduate students in doctorate-granting institutions, 2005	22,587	527,767	8
Population, 2005 (thousands)	11,464	300,322	7
Civilian labor force, 2005 (thousands)	5,900	150,717	7
Personal income per capita, 2005 (dollars)	31,867	34,495	30
Federal spending			
Total expenditures, 2004 (\$millions)	73,195	2,136,440	8
R&D obligations, 2004 (\$millions)	2,505	98,936	13
Total R&D performance, 2004 (\$millions)	7,816	283,439	12
Industry R&D, 2004 (\$millions)	5,516	201,131	11
Academic R&D, 2005 (\$millions)	1,531	45,725	9
Life sciences (%)	61	60	-
Engineering (%)	21	15	-
Physical sciences (%)	6	8	-
SBIR awards, 2000-05	1,323	33,289	8
Utility patents issued to state residents, 2005	2,319	74,630	9
Gross domestic product, 2005 (\$billions)	441	12,492	7

- = no value possible.

S&E = science and engineering.

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. Reliability of estimates of doctoral scientists and engineers varies by state, because sample allocation was not based on geography. Rankings do not take into account the margin of error of estimates from sample surveys. Data on doctoral scientists and engineers include only recipients of doctoral degrees from U.S. institutions in S&E and health fields. The field percentages represent the largest three fields within the state.

Federal obligations for research and development, by agency and performer: Ohio, FY 2004
(Thousands of dollars)

Agency	Total	Performer					Rank	
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		State, local governments
All agencies	2,505,458	751,194	0	830,113	677,766	230,607	15,778	13
Department of Agriculture	27,980	9,979	0	71	16,505	1,425	0	27
Department of Commerce	9,099	102	0	6,745	531	1,721	0	19
Department of Defense	1,135,075	396,910	0	658,198	48,386	31,581	0	15
Department of Energy	36,358	0	0	16,464	12,852	7,042	0	19
Department of Health and Human Services	713,026	16,436	0	28,885	500,657	164,419	2,629	9
Department of Homeland Security	31,645	20,547	0	752	0	10,346	0	8
Department of the Interior	2,598	1,960	0	50	134	75	379	35
Department of Transportation	21,402	1,327	0	7,676	2,362	4,180	5,857	7
Environmental Protection Agency	132,503	96,587	0	33,276	1,348	949	343	2
National Aeronautics and Space Administration	322,845	207,346	0	75,215	25,406	8,308	6,570	5
National Science Foundation	72,927	0	0	2,781	69,585	561	0	19
Rank	13	6	-	16	10	7	10	-

- = no value possible.

FFRDC = federally funded research and development center.

NOTES: Federal R&D obligations are as reported by funding agencies. Ranks 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 (S&E) State Profiles.