

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, 2004	992	26,275	8
Life sciences (percent)	28	27	na
Engineering (percent)	27	22	na
Physical sciences (percent)	15	13	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	1,188	46,807	12
S&E and health graduate students in doctorate-granting institutions, 2003	21,100	507,247	8
Population, 2004 (thousands)	11,459	297,550	7
Civilian labor force, 2004 (thousands)	5,885	148,769	7
Personal income per capita, 2004 (dollars)	31,135	33,041	26
Federal spending			
Total expenditures, 2003 (millions of dollars)	69,902	2,024,246	8
R&D obligations, 2003 (millions of dollars)	2,396	91,359	12
Total R&D performance, 2003 (millions of dollars)	8,583	277,577	11
Industry R&D, 2003 (millions of dollars)	6,260	198,244	10
Academic R&D, 2003 (millions of dollars)	1,269	40,055	10
Life sciences (percent)	57	59	na
Engineering (percent)	21	15	na
Physical sciences (percent)	7	8	na
Number of SBIR awards, 1999–2004	1,209	31,847	8
Utility patents issued to state residents, 2004	2,889	84,268	8
Gross state product, 2004 (billions of dollars)	420	11,744	7

na = not applicable.

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. Reliability of estimates of industry R&D and 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 2003
(Thousands of dollars)

Agency	Total	Performer						Rank
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits	State and local government	
All agencies	2,396,000	799,946	0	737,789	595,677	254,225	8,363	12
Department of Agriculture	24,184	8,483	0	10	15,588	15	88	32
Department of Commerce	8,352	0	0	5,744	313	2,295	0	22
Department of Defense	1,019,088	392,235	0	559,259	34,297	33,297	0	13
Department of Energy	35,263	0	0	13,632	20,916	715	0	19
Department of Health and Human Services	816,887	164,274	0	28,592	434,149	187,402	2,470	11
Department of the Interior	3,008	2,169	0	0	624	0	215	32
Department of Transportation	42,832	17,734	0	12,684	2,513	4,620	5,281	3
Environmental Protection Agency	89,450	64,951	0	20,683	1,835	1,932	49	2
National Aeronautics and Space Administration	294,985	149,800	0	95,019	26,740	23,166	260	7
National Science Foundation	61,951	300	0	2,166	58,702	783	0	19
Rank	12	8	na	15	11	7	12	na

FFRDC = federally funded research and development center.

na = not applicable.

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.