

Science and engineering profile: Kentucky

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	5,130	566,330	30
Doctoral engineers, 2003	570 *	118,540	35
S&E doctorates awarded, 2004	209	26,275	33
Life sciences (percent)	35	27	na
Psychology (percent)	16	13	na
Social sciences (percent)	16	16	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	264	46,807	31
S&E and health graduate students in doctorate-granting institutions, 2003	4,540	507,247	32
Population, 2004 (thousands)	4,146	297,550	26
Civilian labor force, 2004 (thousands)	1,974	148,769	26
Personal income per capita, 2004 (dollars)	27,151	33,041	45
Federal spending			
Total expenditures, 2003 (millions of dollars)	31,153	2,024,246	23
R&D obligations, 2003 (millions of dollars)	232	91,359	40
Total R&D performance, 2003 (millions of dollars)	1,014	277,577	37
Industry R&D, 2003 (millions of dollars)	601	198,244	35
Academic R&D, 2003 (millions of dollars)	378	40,055	30
Life sciences (percent)	71	59	na
Engineering (percent)	13	15	na
Sciences, nec (percent)	4	2	na
Number of SBIR awards, 1999–2004	80	31,847	42
Utility patents issued to state residents, 2004	407	84,268	33
Gross state product, 2004 (billions of dollars)	136	11,744	26

\*Coefficient of variation greater than 10% but less than 25%; 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: Kentucky, 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	232,097	32,839	0	20,912	172,791	2,748	2,807	40
Department of Agriculture	13,554	223	0	0	13,331	0	0	41
Department of Commerce	738	136	0	0	9	593	0	47
Department of Defense	28,964	4,485	0	16,158	8,321	0	0	40
Department of Energy	6,619	0	0	1,097	5,522	0	0	36
Department of Health and Human Services	149,971	27,040	0	2,318	119,648	965	0	32
Department of the Interior	1,691	912	0	31	748	0	0	45
Department of Transportation	4,011	0	0	1	1,964	0	2,046	27
Environmental Protection Agency	759	0	0	0	506	253	0	40
National Aeronautics and Space Administration	7,365	43	0	598	5,256	937	531	38
National Science Foundation	18,425	0	0	709	17,486	0	230	36
Rank	40	43	na	42	30	46	36	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.