

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, 2005	242	27,974	31
Life sciences (%)	35	26	-
Social sciences (%)	18	15	-
Engineering (%)	17	23	-
S&E and health postdoctorates in doctorate-granting institutions, 2005	387	48,601	25
S&E and health graduate students in doctorate-granting institutions, 2005	4,752	527,767	30
Population, 2005 (thousands)	4,173	300,322	26
Civilian labor force, 2005 (thousands)	2,000	150,717	26
Personal income per capita, 2005 (dollars)	28,317	34,495	44
Federal spending			
Total expenditures, 2004 (\$millions)	31,714	2,136,440	23
R&D obligations, 2004 (\$millions)	237	98,936	41
Total R&D performance, 2004 (\$millions)	1,006	283,439	36
Industry R&D, 2004 (\$millions)	565	201,131	34
Academic R&D, 2005 (\$millions)	452	45,725	29
Life sciences (%)	72	60	-
Engineering (%)	13	15	-
Physical sciences (%)	4	8	-
SBIR awards, 2000-05	76	33,289	45
Utility patents issued to state residents, 2005	346	74,630	34
Gross domestic product, 2005 (\$billions)	141	12,492	27

*Coefficient of variation greater than 10% but less than 25%; - = 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: Kentucky, 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	237,320	11,126	0	32,277	184,681	5,714	3,522	41
Department of Agriculture	15,649	2,271	0	0	13,300	0	78	39
Department of Commerce	4	0	0	0	4	0	0	51
Department of Defense	37,728	3,994	0	23,292	7,153	3,289	0	43
Department of Energy	5,500	0	0	1,126	4,374	0	0	38
Department of Health and Human Services	143,716	9	0	4,322	136,977	2,258	150	30
Department of Homeland Security	5,549	3,892	0	1,479	178	0	0	20
Department of the Interior	1,076	960	0	0	116	0	0	48
Department of Transportation	2,964	0	0	0	470	0	2,494	36
Environmental Protection Agency	658	0	0	0	491	167	0	41
National Aeronautics and Space Administration	7,351	0	0	1,562	5,606	0	183	42
National Science Foundation	17,125	0	0	496	16,012	0	617	39
Rank	41	47	-	45	31	38	41	-

- = 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.