

Science and engineering profile: Tennessee

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	8,590	566,330	21
Doctoral engineers, 2003	1,950 *	118,540	17
S&E doctorates awarded, 2005	377	27,974	23
Life sciences (%)	36	26	-
Engineering (%)	20	23	-
Psychology (%)	17	12	-
S&E and health postdoctorates in doctorate-granting institutions, 2005	766	48,601	19
S&E and health graduate students in doctorate-granting institutions, 2005	7,980	527,767	21
Population, 2005 (thousands)	5,963	300,322	16
Civilian labor force, 2005 (thousands)	2,910	150,717	20
Personal income per capita, 2005 (dollars)	30,952	34,495	37
Federal spending			
Total expenditures, 2004 (\$millions)	45,441	2,136,440	16
R&D obligations, 2004 (\$millions)	1,063	98,936	24
Total R&D performance, 2004 (\$millions)	3,180	283,439	24
Industry R&D, 2004 (\$millions)	1,630	201,131	25
Academic R&D, 2005 (\$millions)	726	45,725	20
Life sciences (%)	65	60	-
Engineering (%)	14	15	-
Physical sciences (%)	6	8	-
SBIR awards, 2000-05	228	33,289	26
Utility patents issued to state residents, 2005	584	74,630	25
Gross domestic product, 2005 (\$billions)	229	12,492	18

*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: Tennessee, 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	1,063,396	49,538	376,409	140,980	417,693	66,498	12,278	24
Department of Agriculture	23,950	11,350	0	0	12,491	109	0	31
Department of Commerce	3,571	1,171	0	1,355	1,045	0	0	28
Department of Defense	122,664	19,748	15,922	67,021	19,973	0	0	32
Department of Energy	384,207	1,226	356,565	5,516	10,057	10,843	0	6
Department of Health and Human Services	393,493	0	1,707	4,854	330,223	55,441	1,268	17
Department of Homeland Security	18,659	13,338	800	4,521	0	0	0	16
Department of the Interior	2,632	2,317	0	47	177	0	91	34
Department of Transportation	4,846	388	748	337	134	0	3,239	25
Environmental Protection Agency	912	0	0	365	547	0	0	37
National Aeronautics and Space Administration	71,967	0	0	55,433	8,854	0	7,680	13
National Science Foundation	36,495	0	667	1,531	34,192	105	0	24
Rank	24	36	6	28	19	16	18	-

-- = 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.