

## Science and Engineering Profile: Tennessee

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 2001 <sup>1</sup> .....	8,680	542,940	22	Total R&D performance, 2000 (millions).....	\$2,057	\$244,855	26
Doctoral engineers, 2001 <sup>1</sup> .....	1,660	112,770	21	Industry R&D, 2000 (millions).....	\$1,215	\$187,544	26
S&E doctorates awarded, 2001 <sup>1</sup> .....	377	25,509	22	Academic R&D, 2001 (millions).....	\$423	\$32,716	26
of which, in life sciences.....	34%	26%		of which, in life sciences.....	63%	59%	
in psychology.....	20%	13%		in engineering.....	16%	15%	
in engineering.....	16%	22%		in physical sciences.....	6%	9%	
S&E postdoctorates, 2001 <sup>1</sup>				Public higher education current-fund			
in doctorate-granting institutions.....	696	42,899	18	expenditures, 2000 (millions).....	\$2,258	\$152,068	27
S&E graduate students, 2001 <sup>1</sup>				Number of SBIR awards, 1999-2001.....	118	13,650	26
in doctorate-granting institutions.....	6,583	452,411	23	Utility patents issued to state residents, 2001.....	813	87,605	25
Population, 2002 (thousands).....	5,797	292,228	16	Gross state product, 2000 (billions).....	\$178	\$10,003	19
Civilian labor force, 2002 (thousands).....	2,926	146,712	18	of which, agriculture.....	1%	1%	
Personal income per capita, 2001.....	\$26,988	\$30,472	35	manufacturing, mining, construction.....	25%	22%	
Federal spending				transportation, communication, utilities.....	8%	8%	
Total expenditures, 2001 (millions).....	\$36,758	\$1,753,011	17	wholesale and retail trade.....	19%	16%	
R&D obligations, 2001 (millions).....	\$845	\$78,006	24	finance, insurance, real estate.....	14%	19%	
				services.....	21%	22%	
				government.....	12%	12%	

<sup>1</sup>Data on graduate students, doctoral scientists, doctoral engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health. Data on S&E doctorates awarded do not include health fields.

NOTES: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

### Federal Obligations for Research and Development by Agency and Performer: Tennessee, Fiscal Year 2001

Agency	Performer							State rank, total
	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	
	[In thousands of dollars]							
Total, all agencies.....	844,743	100,934	341,893	61,060	293,201	43,099	4,556	24
Department of Agriculture.....	9,887	0	0	0	9,858	0	29	43
Department of Commerce.....	3,276	893	205	68	2,110	0	0	30
Department of Defense.....	148,022	88,368	13,969	29,374	16,311	0	0	29
Department of Energy.....	344,249	510	322,035	10,908	10,595	201	0	6
Dept. of Health & Human Services.....	272,246	1,644	0	2,984	223,673	42,006	1,939	20
Department of the Interior.....	4,979	3,620	0	55	1,244	60	0	23
Department of Transportation.....	5,925	702	1,827	362	446	0	2,588	22
Environmental Protection Agency.....	972	0	0	360	164	448	0	36
National Aeronautics and Space Admin....	31,147	5,197	3,857	16,025	6,068	0	0	18
National Science Foundation.....	24,040	0	0	924	22,732	384	0	27
State rank, total.....	24	23	5	36	21	17	32	na

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; 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".