

Science and engineering profile: Virginia

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	20,770	566,330	9
Doctoral engineers, 2003	4,170	118,540	9
S&E doctorates awarded, 2005	695	27,974	13
Engineering (%)	25	23	-
Life sciences (%)	24	26	-
Social sciences (%)	14	15	-
S&E and health postdoctorates in doctorate-granting institutions, 2005	864	48,601	17
S&E and health graduate students in doctorate-granting institutions, 2005	14,779	527,767	10
Population, 2005 (thousands)	7,567	300,322	12
Civilian labor force, 2005 (thousands)	3,934	150,717	12
Personal income per capita, 2005 (dollars)	37,552	34,495	8
Federal spending			
Total expenditures, 2004 (\$millions)	90,638	2,136,440	6
R&D obligations, 2004 (\$millions)	6,191	98,936	3
Total R&D performance, 2004 (\$millions)	7,345	283,439	13
Industry R&D, 2004 (\$millions)	4,006	201,131	16
Academic R&D, 2005 (\$millions)	914	45,725	14
Life sciences (%)	52	60	-
Engineering (%)	24	15	-
Environmental sciences (%)	7	6	-
SBIR awards, 2000-05	1,908	33,289	3
Utility patents issued to state residents, 2005	946	74,630	23
Gross domestic product, 2005 (\$billions)	352	12,492	11

- = 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: Virginia, FY 2004
(Thousands of dollars)

Agency	Total	Performer					State, local governments	Rank
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		
All agencies	6,191,481	1,975,524	346,128	3,250,001	457,887	108,668	53,273	3
Department of Agriculture	15,530	1,393	0	115	12,288	1,734	0	40
Department of Commerce	12,983	1,579	0	7,106	3,666	0	632	15
Department of Defense	4,447,859	1,529,385	212,919	2,637,705	56,088	11,762	0	2
Department of Energy	100,895	6,339	73,718	11,083	7,988	1,767	0	13
Department of Health and Human Services	467,340	2,000	671	177,916	241,283	42,001	3,469	14
Department of Homeland Security	154,461	98,965	0	33,726	188	21,582	0	2
Department of the Interior	142,261	123,654	0	2,998	15,126	33	450	1
Department of Transportation	48,716	2,261	0	34,000	2,226	5,512	4,717	3
Environmental Protection Agency	14,376	1,371	0	6,694	741	5,420	150	9
National Aeronautics and Space Administration	640,952	206,538	0	331,778	54,074	4,707	43,855	3
National Science Foundation	146,108	2,039	58,820	6,880	64,219	14,150	0	7
Rank	3	3	7	3	18	11	5	-

- = 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.