

Science and Engineering Profile: West Virginia

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 2001 ¹	1,980	542,940	44	Total R&D performance, 2000 (millions).....	\$457	\$244,855	41
Doctoral engineers, 2001 ¹	380	112,770	41	Industry R&D, 2000 (millions).....	\$235	\$187,544	40
S&E doctorates awarded, 2001 ¹	67	25,509	42	Academic R&D, 2001 (millions).....	\$79	\$32,716	47
of which, in life sciences.....	25%	26%		of which, in life sciences.....	58%	59%	
in psychology.....	25%	13%		in engineering.....	26%	15%	
in engineering.....	22%	22%		in environmental sciences.....	6%	6%	
S&E postdoctorates, 2001 ¹				Public higher education current-fund			
in doctorate-granting institutions.....	34	42,899	47	expenditures, 2000 (millions).....	\$847	\$152,068	37
S&E graduate students, 2001 ¹				Number of SBIR awards, 1999-2001.....	23	13,650	48
in doctorate-granting institutions.....	2,534	452,411	38	Utility patents issued to state residents, 2001.....	148	87,605	43
Population, 2002 (thousands).....	1,802	292,228	38	Gross state product, 2000 (billions).....	\$42	\$10,003	42
Civilian labor force, 2002 (thousands).....	804	146,712	39	of which, agriculture.....	1%	1%	
Personal income per capita, 2001.....	\$22,881	\$30,472	50	manufacturing, mining, construction.....	27%	22%	
Federal spending				transportation, communication, utilities.....	11%	8%	
Total expenditures, 2001 (millions).....	\$12,541	\$1,753,011	37	wholesale and retail trade.....	15%	16%	
R&D obligations, 2001 (millions).....	\$353	\$78,006	33	finance, insurance, real estate.....	11%	19%	
				services.....	18%	22%	
				government.....	16%	12%	

¹Data 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: West Virginia, 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.....	352,841	110,923	46,558	103,916	58,469	30,858	2,117	33
Department of Agriculture.....	30,263	23,429	0	0	5,844	963	27	25
Department of Commerce.....	2,094	0	0	68	2,026	0	0	35
Department of Defense.....	87,742	2,562	0	63,448	16,432	5,300	0	33
Department of Energy.....	80,923	46,407	0	21,849	8,273	4,355	39	14
Dept. of Health & Human Services.....	53,656	32,697	0	4,280	14,603	1,239	837	42
Department of the Interior.....	6,124	5,828	0	91	205	0	0	18
Department of Transportation.....	2,506	0	0	250	1,222	0	1,034	34
Environmental Protection Agency.....	4,370	0	0	0	2,942	1,248	180	23
National Aeronautics and Space Admin....	34,018	0	0	9,528	6,762	17,728	0	17
National Science Foundation.....	51,145	0	46,558	4,402	160	25	0	21
State rank, total.....	33	22	13	30	44	22	47	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".