Science and engineering profile: West Virginia

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	2,100	566,330	45
Doctoral engineers, 2003	470 *	118,540	39
S&E doctorates awarded, 2005	108	27,974	41
Life sciences (%)	31	26	-
Social sciences (%)	20	15	_
Engineering (%)	19	23	_
S&E and health postdoctorates in doctorate-granting institutions, 2005	46	48,601	47
S&E and health graduate students in doctorate-granting institutions, 2005	2,891	527,767	39
Population, 2005 (thousands)	1,817	300,322	38
Civilian labor force, 2005 (thousands)	800	150,717	39
Personal income per capita, 2005 (dollars)	26,029	34,495	49
Federal spending			
Total expenditures, 2004 (\$millions)	15,183	2,136,440	37
R&D obligations, 2004 (\$millions)	289	98,936	38
Total R&D performance, 2004 (\$millions)	523	283,439	44
Industry R&D, 2004 (\$millions)	202	201,131	44
Academic R&D, 2005 (\$millions)	145	45,725	45
Life sciences (%)	61	60	-
Engineering (%)	25	15	_
Environmental sciences (%)	5	6	_
SBIR awards, 2000–05	93	33,289	39
Utility patents issued to state residents, 2005	91	74,630	45
Gross domestic product, 2005 (\$billions)	53	12,492	43

^{*}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: West Virginia, FY 2004 (Thousands of dollars)

Agency	Performer							
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits	State, local governments	Rank
	Total							
All agencies	288,687	130,966	0	86,325	49,007	17,454	4,935	38
Department of Agriculture	34,788	26,062	0	0	7,875	746	105	23
Department of Commerce	3,054	651	0	55	1,698	650	0	29
Department of Defense	77,144	22,450	0	44,048	1,983	8,663	0	38
Department of Energy	98,993	59,176	0	37,157	697	1,963	0	14
Department of Health and Human Services	42,142	17,669	0	628	23,041	651	153	45
Department of Homeland Security	474	344	0	130	0	0	0	32
Department of the Interior	5,241	4,595	0	0	335	0	311	21
Department of Transportation	3,681	19	0	1,005	1,303	0	1,354	31
Environmental Protection Agency	1,518	0	0	0	0	1,453	65	30
National Aeronautics and Space Administration	15,129	0	0	3,089	12,040	0	0	31
National Science Foundation	6,523	0	0	213	35	3,328	2,947	50
Rank	38	21	_	34	48	30	32	_

^{- =} no value possible.

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.

FFRDC = federally funded research and development center.