

Science and engineering profile: South Dakota

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	1,120 *	566,330	51
Doctoral engineers, 2003	90 **	118,540	50
S&E doctorates awarded, 2004	39	26,275	48
Life sciences (percent)	38	27	na
Psychology (percent)	23	13	na
Social sciences (percent)	18	16	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	17	46,807	51
S&E and health graduate students in doctorate-granting institutions, 2003	1,219	507,247	48
Population, 2004 (thousands)	771	297,550	47
Civilian labor force, 2004 (thousands)	428	148,769	46
Personal income per capita, 2004 (dollars)	30,617	33,041	30
Federal spending			
Total expenditures, 2003 (millions of dollars)	6,202	2,024,246	48
R&D obligations, 2003 (millions of dollars)	55	91,359	51
Total R&D performance, 2003 (millions of dollars)	149	277,577	50
Industry R&D, 2003 (millions of dollars)	75	198,244	48
Academic R&D, 2003 (millions of dollars)	50	40,055	52
Life sciences (percent)	59	59	na
Engineering (percent)	17	15	na
Environmental sciences (percent)	9	5	na
Number of SBIR awards, 1999-2004	34	31,847	50
Utility patents issued to state residents, 2004	82	84,268	46
Gross state product, 2004 (billions of dollars)	29	11,744	48

*Coefficient of variation greater than 10% but less than 25%; **Coefficient of variation 25% or greater; na = not applicable; 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. Reliability of estimates of industry R&D and 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: South Dakota, FY 2003
(Thousands of dollars)

Agency	Total	Performer						Rank
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits	State and local government	
All agencies	54,788	19,929	0	3,737	25,537	4,201	1,384	51
Department of Agriculture	9,420	3,686	0	0	5,648	0	86	46
Department of Commerce	195	40	0	0	8	0	147	50
Department of Defense	3,568	34	0	1,312	2,222	0	0	50
Department of Energy	0	0	0	0	0	0	0	na
Department of Health and Human Services	19,410	3,445	0	1,723	9,891	4,201	150	49
Department of the Interior	8,748	8,468	0	0	280	0	0	17
Department of Transportation	1,046	0	0	165	0	0	881	46
Environmental Protection Agency	345	0	0	225	0	0	120	44
National Aeronautics and Space Administration	4,954	4,256	0	0	698	0	0	40
National Science Foundation	7,102	0	0	312	6,790	0	0	50
Rank	51	50	na	50	51	45	46	na

FFRDC = federally funded research and development center.

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.