

Science and engineering profile: North Dakota

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	1,170 *	566,330	50
Doctoral engineers, 2003	140 **	118,540	49
S&E doctorates awarded, 2004	42	26,275	47
Life sciences (percent)	33	27	na
Physical sciences (percent)	31	13	na
Psychology (percent)	21	13	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	73	46,807	45
S&E and health graduate students in doctorate-granting institutions, 2003	1,843	507,247	44
Population, 2004 (thousands)	634	297,550	49
Civilian labor force, 2004 (thousands)	354	148,769	48
Personal income per capita, 2004 (dollars)	29,247	33,041	38
Federal spending			
Total expenditures, 2003 (millions of dollars)	5,726	2,024,246	49
R&D obligations, 2003 (millions of dollars)	102	91,359	49
Total R&D performance, 2003 (millions of dollars)	382	277,577	46
Industry R&D, 2003 (millions of dollars)	216	198,244	45
Academic R&D, 2003 (millions of dollars)	134	40,055	44
Life sciences (percent)	49	59	na
Engineering (percent)	24	15	na
Physical sciences (percent)	10	8	na
Number of SBIR awards, 1999–2004	42	31,847	49
Utility patents issued to state residents, 2004	53	84,268	49
Gross state product, 2004 (billions of dollars)	23	11,744	51

*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: North Dakota, FY 2003

(Thousands of dollars)

Agency	Total	Performer					State and local government	Rank
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		
All agencies	101,753	30,449	0	6,912	61,506	1,799	1,087	49
Department of Agriculture	35,109	23,629	0	0	11,480	0	0	20
Department of Commerce	921	35	0	0	886	0	0	44
Department of Defense	20,344	195	0	678	19,471	0	0	45
Department of Energy	7,224	0	0	334	6,890	0	0	35
Department of Health and Human Services	23,099	3,440	0	4,043	13,819	1,797	0	48
Department of the Interior	3,277	3,150	0	0	99	0	28	30
Department of Transportation	959	0	0	0	0	0	959	47
Environmental Protection Agency	1,206	0	0	0	1,106	0	100	36
National Aeronautics and Space Administration	914	0	0	0	912	2	0	52
National Science Foundation	8,700	0	0	1,857	6,843	0	0	46
Rank	49	44	na	47	47	50	48	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.