

Science and engineering profile: Minnesota

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	10,950	566,330	17
Doctoral engineers, 2003	1,630 *	118,540	22
S&E doctorates awarded, 2005	504	27,974	18
Life sciences (%)	28	26	-
Engineering (%)	21	23	-
Psychology (%)	18	12	-
S&E and health postdoctorates in doctorate-granting institutions, 2005	1,074	48,601	16
S&E and health graduate students in doctorate-granting institutions, 2005	13,252	527,767	13
Population, 2005 (thousands)	5,133	300,322	21
Civilian labor force, 2005 (thousands)	2,947	150,717	18
Personal income per capita, 2005 (dollars)	37,322	34,495	10
Federal spending			
Total expenditures, 2004 (\$millions)	28,791	2,136,440	28
R&D obligations, 2004 (\$millions)	826	98,936	25
Total R&D performance, 2004 (\$millions)	5,992	283,439	15
Industry R&D, 2004 (\$millions)	5,199	201,131	12
Academic R&D, 2005 (\$millions)	560	45,725	25
Life sciences (%)	73	60	-
Engineering (%)	9	15	-
Physical sciences (%)	5	8	-
SBIR awards, 2000-05	456	33,289	20
Utility patents issued to state residents, 2005	2,431	74,630	8
Gross domestic product, 2005 (\$billions)	235	12,492	17

*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: Minnesota, FY 2004
(Thousands of dollars)

Agency	Total	Performer					Rank	
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		State, local governments
All agencies	826,407	50,531	0	225,208	327,884	218,147	4,637	25
Department of Agriculture	35,913	18,949	0	2	16,616	10	336	20
Department of Commerce	4,807	152	0	3,248	1,407	0	0	26
Department of Defense	231,068	3,772	0	171,647	16,319	39,330	0	25
Department of Energy	11,615	0	0	4,500	7,115	0	0	31
Department of Health and Human Services	440,551	150	0	38,375	221,587	178,684	1,755	15
Department of Homeland Security	3,300	2,389	0	907	4	0	0	22
Department of the Interior	3,032	2,530	0	34	299	0	169	30
Department of Transportation	2,420	0	0	54	53	19	2,294	42
Environmental Protection Agency	23,087	22,589	0	0	498	0	0	5
National Aeronautics and Space Administration	10,635	0	0	4,822	5,657	73	83	38
National Science Foundation	59,979	0	0	1,619	58,329	31	0	21
Rank	25	35	-	23	23	9	34	-

-- = 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.