

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, 2004	419	26,275	21
Life sciences (percent)	25	27	na
Engineering (percent)	20	22	na
Psychology (percent)	18	13	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	915	46,807	17
S&E and health graduate students in doctorate-granting institutions, 2003	8,055	507,247	20
Population, 2004 (thousands)	5,101	297,550	21
Civilian labor force, 2004 (thousands)	2,952	148,769	18
Personal income per capita, 2004 (dollars)	36,173	33,041	9
Federal spending			
Total expenditures, 2003 (millions of dollars)	27,580	2,024,246	28
R&D obligations, 2003 (millions of dollars)	861	91,359	25
Total R&D performance, 2003 (millions of dollars)	5,842	277,577	15
Industry R&D, 2003 (millions of dollars)	5,003	198,244	12
Academic R&D, 2003 (millions of dollars)	517	40,055	25
Life sciences (percent)	72	59	na
Engineering (percent)	10	15	na
Physical sciences (percent)	5	8	na
Number of SBIR awards, 1999–2004	439	31,847	19
Utility patents issued to state residents, 2004	2,754	84,268	10
Gross state product, 2004 (billions of dollars)	224	11,744	17

\*Coefficient of variation greater than 10% but less than 25%; 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: Minnesota, 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	861,269	140,517	0	217,119	317,965	180,988	4,680	25
Department of Agriculture	31,032	18,882	0	0	11,904	18	228	23
Department of Commerce	9,096	2,383	0	4,862	1,851	0	0	21
Department of Defense	225,045	5,204	0	184,666	10,168	25,007	0	24
Department of Energy	12,310	0	0	4,900	7,410	0	0	29
Department of Health and Human Services	489,864	89,826	0	15,787	226,448	155,192	2,611	14
Department of the Interior	7,345	6,867	0	12	466	0	0	19
Department of Transportation	2,056	0	0	215	0	0	1,841	39
Environmental Protection Agency	17,822	16,965	0	0	857	0	0	8
National Aeronautics and Space Administration	10,929	390	0	4,649	5,497	393	0	34
National Science Foundation	55,770	0	0	2,028	53,364	378	0	21
Rank	25	24	na	24	22	9	29	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.