Science and Engineering Profile: Minnesota

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 2001[1]	10,680	542,940	18	Total R&D performance, 2000 (millions)	$4,299	$244,855	16
Doctoral engineers, 2001[1]	1,950	112,770	18	Industry R&D, 2000 (millions)	$3,722	$187,544	12
S&E doctorates awarded, 2001[1]	455	25,509	19	Academic R&D, 2001 (millions)	$469	$32,716	22
of which, in life sciences	29%	26%		of which, in life sciences	72%	59%	
in engineering	24%	22%		in engineering	9%	15%	
in psychology	15%	13%		in physical sciences	8%	9%	
S&E postdoctorates, 2001[1]				Public higher education current-fund			
in doctorate-granting institutions	945	42,899	12	expenditures, 2000 (millions)	$2,898	$152,068	19
S&E graduate students, 2001[1]				Number of SBIR awards, 1999-2001	188	13,650	19
in doctorate-granting institutions	7,117	452,411	21	Utility patents issued to state residents, 2001	2,635	87,605	11
Population, 2002 (thousands)	5,020	292,228	21	Gross state product, 2000 (billions)	$185	$10,003	17
Civilian labor force, 2002 (thousands)	2,918	146,712	19	of which, agriculture	2%	1%	
				manufacturing, mining, construction	23%	22%	
Personal income per capita, 2001	$33,101	$30,472	9	transportation, communication, utilities	7%	8%	
				wholesale and retail trade	17%	16%	
Federal spending				finance, insurance, real estate	19%	19%	
Total expenditures, 2001 (millions)	$24,935	$1,753,011	25	services	21%	22%	
R&D obligations, 2001 (millions)	$901	$78,006	23	government	10%	12%	

[1]Data on graduate students, doctoral scientists, doctoral engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health Data on S&E doctorates awarded do not include health fields.

NOTES: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

Federal Obligations for Research and Development by Agency and Performer: Minnesota, Fiscal Year 2001

Agency	Performer							State rank, total
	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	
	[In thousands of dollars]							
Total, all agencies	900,936	32,903	0	419,621	285,634	152,754	10,024	23
Department of Agriculture	33,006	18,949	0	0	13,563	6	488	21
Department of Commerce	5,784	132	0	2,567	1,616	969	500	24
Department of Defense	450,665	1,010	0	398,922	25,198	25,535	0	19
Department of Energy	12,613	0	0	2,370	10,243	0	0	29
Dept. of Health & Human Services	327,333	0	0	9,485	186,590	125,499	5,759	15
Department of the Interior	4,333	3,165	0	0	790	0	378	29
Department of Transportation	2,862	95	0	29	0	75	2,663	31
Environmental Protection Agency	15,345	9,552	0	0	5,557	0	236	7
National Aeronautics and Space Admin	9,006	0	0	4,348	4,385	273	0	33
National Science Foundation	39,989	0	0	1,900	37,692	397	0	23
State rank, total	23	41	na	16	22	9	10	na

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; 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".