

Science and Engineering Profile: Iowa

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 2001 ¹	4,500	542,940	32	Total R&D performance, 2000 (millions).....	\$1,017	\$244,855	34
Doctoral engineers, 2001 ¹	560	112,770	36	Industry R&D, 2000 (millions).....	\$538	\$187,544	35
S&E doctorates awarded, 2001 ¹	376	25,509	23	Academic R&D, 2001 (millions).....	\$440	\$32,716	24
of which, in life sciences.....	29%	26%		of which, in life sciences.....	66%	59%	
in engineering.....	23%	22%		in engineering.....	16%	15%	
in social sciences.....	16%	16%		in physical sciences.....	6%	9%	
S&E postdoctorates, 2001 ¹				Public higher education current-fund			
in doctorate-granting institutions.....	550	42,899	23	expenditures, 2000 (millions).....	\$2,612	\$152,068	21
S&E graduate students, 2001 ¹				Number of SBIR awards, 1999-2001.....	28	13,650	45
in doctorate-granting institutions.....	4,962	452,411	28	Utility patents issued to state residents, 2001.....	751	87,605	26
Population, 2002 (thousands).....	2,937	292,228	31	Gross state product, 2000 (billions).....	\$90	\$10,003	30
Civilian labor force, 2002 (thousands).....	1,667	146,712	30	of which, agriculture.....	4%	1%	
Personal income per capita, 2001.....	\$27,331	\$30,472	34	manufacturing, mining, construction.....	27%	22%	
Federal spending				transportation, communication, utilities.....	9%	8%	
Total expenditures, 2001 (millions).....	\$17,401	\$1,753,011	32	wholesale and retail trade.....	16%	16%	
R&D obligations, 2001 (millions).....	\$324	\$78,006	34	finance, insurance, real estate.....	16%	19%	
				services.....	17%	22%	
				government.....	12%	12%	

¹Data 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: Iowa, 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.....	324,263	39,496	20,726	24,236	229,838	4,569	5,398	34
Department of Agriculture.....	57,537	37,625	0	0	19,871	25	16	8
Department of Commerce.....	1,658	157	0	731	270	0	500	39
Department of Defense.....	28,471	13	128	20,612	7,718	0	0	43
Department of Energy.....	29,597	0	20,371	72	5,984	3,170	0	22
Dept. of Health & Human Services.....	163,947	0	0	1,289	158,442	1,374	2,842	26
Department of the Interior.....	2,522	1,701	0	0	285	0	536	42
Department of Transportation.....	10,685	0	227	5	8,949	0	1,504	15
Environmental Protection Agency.....	762	0	0	0	762	0	0	43
National Aeronautics and Space Admin....	7,922	0	0	1,327	6,595	0	0	36
National Science Foundation.....	21,162	0	0	200	20,962	0	0	32
State rank, total.....	34	39	16	44	25	41	27	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".