

Science and engineering profile: Iowa

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	4,800	566,330	31
Doctoral engineers, 2003	560 *	118,540	36
S&E doctorates awarded, 2005	355	27,974	24
Life sciences (%)	31	26	-
Engineering (%)	26	23	-
Physical sciences (%)	16	13	-
S&E and health postdoctorates in doctorate-granting institutions, 2005	604	48,601	23
S&E and health graduate students in doctorate-granting institutions, 2005	5,279	527,767	28
Population, 2005 (thousands)	2,966	300,322	31
Civilian labor force, 2005 (thousands)	1,660	150,717	30
Personal income per capita, 2005 (dollars)	31,795	34,495	31
Federal spending			
Total expenditures, 2004 (\$millions)	19,473	2,136,440	34
R&D obligations, 2004 (\$millions)	478	98,936	31
Total R&D performance, 2004 (\$millions)	1,625	283,439	31
Industry R&D, 2004 (\$millions)	963	201,131	31
Academic R&D, 2005 (\$millions)	548	45,725	26
Life sciences (%)	68	60	-
Engineering (%)	15	15	-
Physical sciences (%)	5	8	-
SBIR awards, 2000-05	83	33,289	44
Utility patents issued to state residents, 2005	560	74,630	26
Gross domestic product, 2005 (\$billions)	114	12,492	30

*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: Iowa, 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	477,854	46,835	21,381	76,399	272,856	55,878	4,505	31
Department of Agriculture	66,719	44,848	0	0	21,785	84	2	7
Department of Commerce	476	61	0	0	415	0	0	46
Department of Defense	78,144	234	36	70,251	7,623	0	0	37
Department of Energy	81,230	0	21,345	0	7,840	52,045	0	15
Department of Health and Human Services	194,578	1	0	2,529	187,803	3,643	602	26
Department of Homeland Security	222	161	0	61	0	0	0	37
Department of the Interior	2,100	1,530	0	0	185	0	385	40
Department of Transportation	9,885	0	0	660	5,733	0	3,492	14
Environmental Protection Agency	1,690	0	0	0	1,560	106	24	28
National Aeronautics and Space Administration	11,151	0	0	2,298	8,853	0	0	35
National Science Foundation	31,659	0	0	600	31,059	0	0	27
Rank	31	37	15	36	26	19	36	-

- = 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.