

Science and engineering profiles, by state: 2003–05

Location	Doctoral scientists, 2003		Doctoral engineers, 2003		S&E doctorates awarded, 2005		S&E and health postdoctorates in doctorate-granting institutions, 2005	
	Total	Rank	Total	Rank	Total	Rank	Total	Rank
United States	566,330	–	118,540	–	27,974	–	48,601	–
Alabama	5,330	28	1,390 *	25	338	25	352	27
Alaska	1,250 *	49	80 **	51	25	51	0	52
Arizona	7,200	24	1,920 *	18	473	21	474	24
Arkansas	2,940	37	320 **	42	116	40	133	38
California	76,410	1	22,650	1	3,600	1	7,491	1
Colorado	13,140	15	2,580	14	522	17	1,190	13
Connecticut	10,080	18	1,800 *	19	428	22	1,239	11
Delaware	2,680	40	830 *	30	128	38	113	39
District of Columbia	6,750	26	390 *	41	307	27	64	44
Florida	16,970	12	3,730	12	977	9	1,410	9
Georgia	12,640	16	1,670 *	21	742	12	1,245	10
Hawaii	3,060	35	290 **	45	99	42	93	43
Idaho	2,500	41	520 *	37	56	45	33	48
Illinois	21,370	7	3,950	10	1,332	6	1,483	8
Indiana	8,720	20	1,540 *	24	686	14	819	18
Iowa	4,800	31	560 *	36	355	24	604	23
Kansas	4,120	34	740 *	33	246	30	317	29
Kentucky	5,130	30	570 *	35	242	31	387	25
Louisiana	5,450	27	770 *	32	338	25	261	31
Maine	2,370	43	250 **	46	24	52	15	50
Maryland	27,700	5	3,870	11	744	11	1,966	6
Massachusetts	28,030	4	5,230	4	1,632	4	6,502	2
Michigan	14,490	14	4,760	7	1,075	7	1,216	12
Minnesota	10,950	17	1,630 *	22	504	18	1,074	16
Mississippi	2,990	36	690 *	34	168	36	170	36
Missouri	8,910	19	1,350 *	26	489	20	647	22
Montana	2,170	44	230 **	47	59	44	155	37
Nebraska	2,740	39	300 **	44	166	37	232	34
Nevada	1,760 *	47	460 *	40	90	43	94	42
New Hampshire	2,490	42	840 *	29	117	39	249	32
New Jersey	21,370	7	5,040	5	628	15	696	21
New Mexico	6,990	25	2,510	15	176	34	109	41
New York	41,090	2	6,740	3	2,419	2	4,187	3
North Carolina	18,070	11	2,290	16	863	10	1,953	7
North Dakota	1,170 *	50	140 **	49	45	46	50	46
Ohio	19,300	10	4,660	8	1,041	8	1,115	15
Oklahoma	4,430	33	960 *	28	232	32	184	35
Oregon	8,290	23	1,760 *	20	260	29	263	30
Pennsylvania	26,940	6	5,030	6	1,397	5	2,406	5
Puerto Rico	1,620 *	48	200 **	48	44	47	15	50
Rhode Island	2,860	38	520 *	37	175	35	249	32
South Carolina	5,190	29	830 *	30	227	33	345	28
South Dakota	1,120 *	51	90 **	50	38	48	21	49
Tennessee	8,590	21	1,950 *	17	377	23	766	19
Texas	30,000	3	9,280	2	1,781	3	2,908	4
Utah	4,450	32	1,120 *	27	290	28	367	26
Vermont	1,970	46	320 **	42	37	49	112	40
Virginia	20,770	9	4,170	9	695	13	864	17
Washington	15,520	13	2,930	13	495	19	1,134	14
West Virginia	2,100	45	470 *	39	108	41	46	47
Wisconsin	8,490	22	1,560 *	23	532	16	720	20
Wyoming	860 *	52	60 **	52	36	50	63	45

Science and engineering profiles, by state: 2003–05

Location	S&E and health graduate students in doctorate-granting institutions, 2005		Population, 2005		Civilian labor force, 2005		Personal income per capita, 2005	
	Total	Rank	Total (thousands)	Rank	Total (thousands)	Rank	Total (dollars)	Rank
	United States	527,767	–	300,322	–	150,717	–	34,495
Alabama	7,745	22	4,558	23	2,155	23	29,623	41
Alaska	602	52	664	48	339	50	35,433	16
Arizona	7,692	23	5,939	17	2,844	21	30,157	39
Arkansas	3,383	37	2,779	33	1,362	33	26,641	48
California	53,047	1	36,132	1	17,696	1	36,890	13
Colorado	10,348	18	4,665	22	2,548	22	37,459	9
Connecticut	6,835	25	3,510	30	1,817	28	47,519	2
Delaware	1,954	44	844	46	438	46	37,084	12
District of Columbia	10,561	17	551	51	296	51	56,329	1
Florida	25,498	5	17,790	4	8,654	4	34,099	21
Georgia	10,857	16	9,073	9	4,588	9	31,191	34
Hawaii	2,092	43	1,275	43	635	43	34,468	20
Idaho	2,315	42	1,429	40	739	40	28,398	43
Illinois	24,560	6	12,763	5	6,469	5	36,264	14
Indiana	11,207	15	6,272	15	3,209	15	31,150	35
Iowa	5,279	28	2,966	31	1,660	30	31,795	31
Kansas	6,540	26	2,745	34	1,476	31	32,948	24
Kentucky	4,752	30	4,173	26	2,000	26	28,317	44
Louisiana	4,590	32	4,524	24	2,071	25	24,582	51
Maine	744	51	1,322	41	712	42	30,808	38
Maryland	13,813	12	5,600	19	2,935	19	41,996	5
Massachusetts	26,387	4	6,399	13	3,364	13	43,702	4
Michigan	18,484	9	10,121	8	5,097	8	32,735	25
Minnesota	13,252	13	5,133	21	2,947	18	37,322	10
Mississippi	3,807	35	2,921	32	1,343	34	24,925	50
Missouri	9,796	19	5,800	18	3,024	17	31,299	32
Montana	1,464	47	936	45	493	45	28,906	42
Nebraska	3,200	38	1,759	39	986	37	32,988	23
Nevada	2,367	40	2,415	36	1,216	36	35,780	15
New Hampshire	1,833	46	1,310	42	732	41	37,835	7
New Jersey	12,641	14	8,718	10	4,430	10	43,822	3
New Mexico	4,126	34	1,928	37	936	38	27,912	46
New York	46,392	2	19,255	3	9,416	3	40,072	6
North Carolina	14,079	11	8,683	11	4,333	11	31,029	36
North Dakota	1,882	45	637	49	359	48	31,230	33
Ohio	22,587	8	11,464	7	5,900	7	31,867	30
Oklahoma	4,510	33	3,548	29	1,742	29	29,908	40
Oregon	4,962	29	3,641	28	1,860	27	32,174	29
Pennsylvania	24,085	7	12,430	6	6,292	6	34,848	19
Puerto Rico	4,634	31	3,912	27	1,410	32	12,502	52
Rhode Island	2,316	41	1,076	44	569	44	35,219	18
South Carolina	3,487	36	4,255	25	2,081	24	28,212	45
South Dakota	1,256	48	776	47	432	47	32,642	27
Tennessee	7,980	21	5,963	16	2,910	20	30,952	37
Texas	36,315	3	22,860	2	11,226	2	32,604	28
Utah	5,853	27	2,470	35	1,268	35	27,497	47
Vermont	746	50	623	50	356	49	32,731	26
Virginia	14,779	10	7,567	12	3,934	12	37,552	8
Washington	7,094	24	6,288	14	3,292	14	35,234	17
West Virginia	2,891	39	1,817	38	800	39	26,029	49
Wisconsin	9,123	20	5,536	20	3,041	16	33,251	22
Wyoming	1,025	49	509	52	285	52	37,270	11

Science and engineering profiles, by state: 2003–05

Location	Total federal expenditures, 2004		Federal R&D obligations, 2004		Total R&D performance, 2004		Industry R&D, 2004	
	Total (\$millions)	Rank	Total (\$millions)	Rank	Total (\$millions)	Rank	Total (\$millions)	Rank
United States	2,136,440	–	98,936	–	283,439	–	201,131	–
Alabama	39,047	19	2,806	11	2,760	26	1,227	28
Alaska	8,445	44	261	39	271	49	35	50
Arizona	41,979	18	2,216	14	3,544	23	2,570	21
Arkansas	19,489	33	141	47	514	45	287	42
California	232,387	1	18,041	1	59,607	1	46,614	1
Colorado	30,060	26	1,806	19	5,497	16	4,008	15
Connecticut	30,304	25	2,088	15	7,881	11	7,177	10
Delaware	5,253	50	85	50	1,182	34	1,059	30
District of Columbia	37,630	21	3,055	9	2,383	27	182	45
Florida	121,934	4	2,740	12	5,409	17	3,486	18
Georgia	55,153	13	1,308	22	3,655	22	2,160	22
Hawaii	12,187	40	393	34	490	46	131	47
Idaho	8,968	43	260	40	1,006	35	681	33
Illinois	76,828	7	1,837	18	11,300	8	8,554	8
Indiana	37,918	20	541	28	5,130	18	4,208	14
Iowa	19,473	34	478	31	1,625	31	963	31
Kansas	19,131	35	210	43	2,169	28	1,804	24
Kentucky	31,714	23	237	41	1,006	36	565	34
Louisiana	32,954	22	419	33	972	37	311	41
Maine	10,865	42	188	44	384	47	213	43
Maryland	64,726	9	12,163	2	14,341	4	3,826	17
Massachusetts	53,120	14	5,325	4	15,987	3	11,819	3
Michigan	60,488	10	1,073	23	16,722	2	15,170	2
Minnesota	28,791	28	826	25	5,992	15	5,199	12
Mississippi	22,338	30	1,594	21	651	40	160	46
Missouri	45,730	15	2,979	10	3,038	25	2,151	23
Montana	7,494	47	187	45	295	48	70	49
Nebraska	11,795	41	155	46	740	39	383	39
Nevada	12,769	39	510	29	623	41	417	37
New Hampshire	7,959	46	354	36	1,665	30	1,330	26
New Jersey	55,264	11	1,969	17	12,460	7	10,993	4
New Mexico	19,864	32	3,069	8	5,114	19	450	35
New York	143,903	2	4,034	6	13,113	6	8,793	7
North Carolina	55,233	12	1,677	20	6,491	14	4,565	13
North Dakota	6,035	49	103	48	558	42	379	40
Ohio	73,195	8	2,505	13	7,816	12	5,516	11
Oklahoma	26,644	29	304	37	814	38	410	38
Oregon	21,871	31	449	32	3,664	21	3,057	19
Pennsylvania	94,900	5	3,282	7	10,813	10	8,005	9
Puerto Rico	15,479	36	101	49	na	na	na	na
Rhode Island	8,245	45	495	30	1,840	29	1,320	27
South Carolina	30,051	27	373	35	1,599	33	961	32
South Dakota	6,602	48	70	51	149	50	72	48
Tennessee	45,441	16	1,063	24	3,180	24	1,630	25
Texas	141,858	3	5,026	5	14,266	5	10,992	5
Utah	13,684	38	682	26	1,602	32	1,089	29
Vermont	4,633	51	212	42	546	43	423	36
Virginia	90,638	6	6,191	3	7,345	13	4,006	16
Washington	44,841	17	2,071	16	10,936	9	8,840	6
West Virginia	15,183	37	289	38	523	44	202	44
Wisconsin	31,554	24	645	27	3,675	20	2,645	20
Wyoming	4,393	52	46	52	98	51	23	51

Science and engineering profiles, by state: 2003–05

Location	Academic R&D, 2005		SBIR awards, 2000–05		Utility patents issued to state residents, 2005		Gross domestic product, 2005	
	Total (\$millions)	Rank	Total	Rank	Total	Rank	Total (\$billions)	Rank
United States	45,725	–	33,289	–	74,630	–	12,492	–
Alabama	590	23	646	14	318	35	152	25
Alaska	154	43	22	51	35	51	39	47
Arizona	720	21	630	15	1,457	19	217	20
Arkansas	210	39	84	43	126	42	87	34
California	6,273	1	6,756	1	17,989	1	1,622	1
Colorado	826	18	1,646	5	1,854	13	217	19
Connecticut	669	22	536	16	1,520	17	194	23
Delaware	116	48	138	31	318	35	56	40
District of Columbia	303	35	100	38	55	48	82	36
Florida	1,449	11	790	11	2,291	11	673	4
Georgia	1,274	12	349	23	1,214	20	364	10
Hawaii	240	38	115	35	50	50	54	42
Idaho	120	46	89	41	1,529	16	47	44
Illinois	1,771	7	506	18	2,752	6	560	5
Indiana	759	19	219	27	1,108	22	239	16
Iowa	548	26	83	44	560	26	114	30
Kansas	349	33	115	35	380	32	106	32
Kentucky	452	29	76	45	346	34	141	27
Louisiana	580	24	92	40	271	37	168	24
Maine	82	51	122	34	151	41	45	45
Maryland	2,357	4	1,698	4	1,191	21	246	15
Massachusetts	2,079	6	4,497	2	3,114	5	326	13
Michigan	1,456	10	666	13	3,367	4	376	9
Minnesota	560	25	456	20	2,431	8	235	17
Mississippi	353	32	69	46	114	43	81	37
Missouri	893	16	165	29	628	24	216	22
Montana	171	42	180	28	101	44	30	49
Nebraska	360	31	60	48	182	40	71	38
Nevada	178	41	112	37	383	31	111	31
New Hampshire	287	37	385	22	498	28	55	41
New Jersey	867	17	936	10	2,557	7	431	8
New Mexico	346	34	515	17	265	38	69	39
New York	3,604	2	1,335	7	4,703	3	958	3
North Carolina	1,652	8	462	19	1,610	15	347	12
North Dakota	150	44	42	49	74	46	24	51
Ohio	1,531	9	1,323	8	2,319	9	441	7
Oklahoma	292	36	150	30	403	30	121	29
Oregon	536	27	395	21	1,618	14	144	26
Pennsylvania	2,354	5	1,224	9	2,298	10	489	6
Puerto Rico	100	49	9	52	26	52	82	35
Rhode Island	200	40	125	33	263	39	44	46
South Carolina	486	28	131	32	460	29	140	28
South Dakota	67	52	30	50	66	47	31	48

Science and engineering profiles, by state: 2003–05

Location	Academic R&D, 2005		SBIR awards, 2000–05		Utility patents issued to state residents, 2005		Gross domestic product, 2005	
	Total (\$millions)	Rank	Total	Rank	Total	Rank	Total (\$billions)	Rank
Tennessee	726	20	228	26	584	25	229	18
Texas	3,074	3	1,426	6	5,260	2	989	2
Utah	400	30	307	25	554	27	91	33
Vermont	117	47	88	42	367	33	23	52
Virginia	914	14	1,908	3	946	23	352	11
Washington	901	15	770	12	2,291	11	267	14
West Virginia	145	45	93	39	91	45	53	43
Wisconsin	998	13	328	24	1,489	18	216	21
Wyoming	83	50	62	47	53	49	27	50

*Coefficient of variation greater than 10% but less than 25%; **Coefficient of variation 25% or greater; – = no value possible; na = not applicable; data were not collected; 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. The data source for Puerto Rico's personal income per capita and gross domestic product was "Puerto Rico in Figures 2005", published by the Government Development Bank for Puerto Rico, August 2006. Data on doctoral scientists and engineers include only recipients of doctoral degrees from U.S. institutions in S&E and health fields.

SOURCES: Prepared by the National Science Foundation/Division of Science Resource Statistics. Data compiled from numerous sources; see the section, Data Sources for Science and Engineering State Profiles.