

State	Doctoral scientists, 2001		Doctoral engineers, 2001		S&E doctorates awarded, 2002		S&E postdoctorates in doctorate-granting institutions, 2002		S&E graduate students in doctorate-granting institutions, 2002	
	State total	Rank	State total	Rank	State total	Rank	State total	Rank	State total	Rank
United States	542,940	na	112,760	na	24,558	na	45,171	na	482,211	na
Alabama	5,040	28	1,340	26	307	25	329	25	7,159	22
Alaska	1,350	48	80	52	19	52	0	52	558	52
Arizona	6,720	26	2,000	17	417	19	535	24	7,909	20
Arkansas	2,670	38	370	42	70	42	83	41	2,685	39
California	70,650	1	21,040	1	3,232	1	7,299	1	48,044	1
Colorado	12,150	16	2,070	16	457	18	1,183	11	10,349	14
Connecticut	9,620	19	1,410	25	353	23	1,393	9	5,583	27
Delaware	3,530	35	840	32	100	38	134	36	1,678	44
District of Columbia	13,410	15	1,150	28	282	27	134	36	8,841	17
Florida	16,330	12	3,080	12	762	9	962	15	22,041	6
Georgia	11,860	17	1,780	20	637	12	896	17	10,310	15
Hawaii	2,550	39	310	44	76	41	72	43	1,869	43
Idaho	2,090	43	570	35	50	46	41	45	1,945	41
Illinois	20,680	7	3,940	9	1,210	5	1,301	10	25,410	4
Indiana	9,080	20	1,790	19	589	14	746	18	9,876	16
Iowa	4,500	32	560	36	354	22	564	23	5,145	28
Kansas	4,170	34	550	37	275	28	320	26	6,774	25
Kentucky	4,950	30	450	40	185	33	298	29	4,459	32
Louisiana	5,270	27	870	31	293	26	316	27	7,149	23
Maine	2,120	42	280	45	30	51	38	46	690	50
Maryland	22,150	6	3,440	10	638	11	1,869	6	12,204	12
Massachusetts	26,970	4	4,890	4	1,461	4	5,873	2	25,215	5
Michigan	14,630	13	4,570	8	967	8	1,394	8	18,571	9
Minnesota	10,680	18	1,950	18	403	21	1,051	14	7,812	21
Mississippi	2,930	36	660	33	136	37	142	35	3,247	36
Missouri	8,850	21	1,440	24	409	20	903	16	8,254	19
Montana	1,730	47	100	49	57	45	117	39	1,315	46
Nebraska	2,820	37	330	43	150	36	190	32	3,105	37
Nevada	1,790	46	540	38	61	43	9	51	1,941	42
New Hampshire	2,350	41	650	34	82	39	165	34	1,612	45
New Jersey	20,660	8	4,690	6	521	15	740	19	11,277	13
New Mexico	6,800	25	2,340	14	176	34	76	42	3,668	34
New York	42,610	2	6,490	3	2,124	2	3,818	3	40,058	2
North Carolina	16,780	11	2,340	14	697	10	1,669	7	12,555	11
North Dakota	1,150	51	130	48	46	48	57	44	1,290	47
Ohio	18,580	9	4,780	5	987	7	1,090	13	20,202	8
Oklahoma	4,240	33	920	30	196	32	172	33	4,781	30
Oregon	7,260	24	1,460	23	233	31	234	31	4,733	31
Pennsylvania	24,630	5	4,650	7	1,207	6	2,347	5	21,834	7
Puerto Rico	1,310	49	220	47	59	44	10	50	4,318	33
Rhode Island	2,370	40	500	39	157	35	129	38	1,980	40
South Carolina	5,030	29	980	29	240	30	316	27	3,582	35
South Dakota	1,160	50	90	51	36	49	12	49	1,244	48
Tennessee	8,680	22	1,660	21	343	24	683	21	6,912	24
Texas	28,610	3	8,910	2	1,462	3	2,562	4	32,785	3
Utah	4,700	31	1,220	27	265	29	294	30	4,972	29
Vermont	1,800	45	240	46	49	47	97	40	623	51
Virginia	16,960	10	3,400	11	603	13	707	20	14,549	10
Washington	14,540	14	2,610	13	460	17	1,133	12	6,587	26
West Virginia	1,980	44	380	41	81	40	31	47	2,798	38
Wisconsin	8,520	23	1,610	22	520	16	609	22	8,770	18
Wyoming	940	52	100	49	34	50	28	48	943	49

State	Population, 2003		Civilian labor force, 2003		Personal income per capita, 2003		Total Federal expenditures, 2002		Federal R&D obligations, 2002	
	State total (thousands)	Rank	State total (thousands)	Rank	State total (dollars)	Rank	State total (millions of dollars)	Rank	State total (millions of dollars)	Rank
United States	294,688	na	147,569	na	31,632	na	1,896,317	na	83,764	na
Alabama	4,501	23	2,147	23	26,338	41	34,291	19	2,705	10
Alaska	649	48	332	50	33,568	12	7,562	44	274	39
Arizona	5,581	18	2,690	21	26,838	39	34,761	18	2,057	13
Arkansas	2,726	33	1,265	34	24,289	50	18,372	33	141	45
California	35,484	1	17,460	1	33,749	11	206,401	1	15,686	1
Colorado	4,551	22	2,478	22	34,283	8	26,229	26	1,609	19
Connecticut	3,483	30	1,803	28	43,173	2	25,387	28	1,917	17
Delaware	817	46	417	47	32,810	15	4,766	50	79	50
District of Columbia	563	51	302	51	48,342	1	33,533	21	2,850	8
Florida	17,019	4	8,164	4	30,446	24	104,814	4	2,301	11
Georgia	8,685	9	4,414	9	29,442	29	51,336	10	2,019	15
Hawaii	1,258	43	618	43	30,913	21	10,474	41	375	33
Idaho	1,366	40	693	41	25,911	44	8,378	43	231	43
Illinois	12,654	5	6,330	5	33,690	10	70,275	7	1,694	18
Indiana	6,196	14	3,188	14	28,783	34	34,200	20	526	27
Iowa	2,944	31	1,612	30	29,043	32	18,839	32	405	32
Kansas	2,724	34	1,434	31	29,935	28	17,496	34	291	38
Kentucky	4,118	26	1,956	26	26,252	43	28,880	23	321	36
Louisiana	4,496	24	2,037	24	26,100	45	29,988	22	432	30
Maine	1,306	41	693	41	28,831	33	9,205	42	255	41
Maryland	5,509	19	2,904	20	37,331	5	49,537	12	7,192	2
Massachusetts	6,433	13	3,416	13	39,815	4	47,480	14	4,659	4
Michigan	10,080	8	5,042	8	30,439	22	55,909	9	1,244	21
Minnesota	5,059	21	2,923	18	34,443	9	27,056	25	1,151	23
Mississippi	2,881	32	1,312	33	23,448	51	21,308	30	623	25
Missouri	5,704	17	3,021	17	29,252	31	42,347	15	1,203	22
Montana	918	45	475	45	25,920	46	6,974	46	113	48
Nebraska	1,739	39	976	37	30,758	26	11,583	39	145	44
Nevada	2,241	36	1,141	36	31,266	19	10,737	40	336	35
New Hampshire	1,288	42	719	40	34,702	7	6,937	47	297	37
New Jersey	8,638	10	4,375	10	40,427	3	50,673	11	2,021	14
New Mexico	1,875	37	897	38	25,541	47	17,478	35	2,746	9
New York	19,190	3	9,315	3	36,574	6	128,994	2	3,747	5
North Carolina	8,407	11	4,230	11	28,235	35	48,180	13	1,390	20
North Dakota	634	49	346	49	29,204	38	6,437	48	102	49
Ohio	11,436	7	5,915	7	29,944	25	65,976	8	2,103	12
Oklahoma	3,512	29	1,696	29	26,656	40	24,355	29	272	40
Oregon	3,560	28	1,859	27	29,340	30	19,839	31	502	28
Pennsylvania	12,365	6	6,170	6	31,998	16	85,601	5	3,162	7
Puerto Rico	3,879	27	1,393	32	11,279	52	14,062	36	135	47
Rhode Island	1,076	44	573	44	31,916	18	7,503	45	501	29
South Carolina	4,147	25	2,003	25	26,132	42	26,103	27	371	34
South Dakota	764	47	425	46	29,234	37	6,315	49	59	51
Tennessee	5,842	16	2,909	19	28,455	36	39,276	17	961	24
Texas	22,119	2	10,910	2	29,372	27	123,431	3	3,374	6
Utah	2,351	35	1,184	35	24,977	48	12,302	38	409	31
Vermont	619	50	351	48	30,740	23	4,111	51	136	46
Virginia	7,386	12	3,773	12	33,671	13	74,537	6	5,756	3
Washington	6,131	15	3,140	15	33,332	14	40,218	16	1,999	16
West Virginia	1,810	38	787	39	24,379	49	13,361	37	254	42
Wisconsin	5,472	20	3,078	16	30,898	20	28,844	24	595	26
Wyoming	501	52	278	52	32,808	17	3,666	52	40	52

State	Total R&D performance, 2002		Industry R&D, 2002		Academic R&D, 2002		Public higher education current-fund expenditures, 2001	
	State total (millions of dollars)	Rank	State total (millions of dollars)	Rank	State total (millions of dollars)	Rank	State total (millions of dollars)	Rank
United States	255,707	na	182,403	na	36,314	na	170,024	na
Alabama	2,323	27	846	32	503	23	3,508	16
Alaska	308	47	51	50	129	41	433	48
Arizona	4,096	20	3,201	17	531	21	2,678	22
Arkansas	427	45	225	43	140	40	1,637	34
California	51,388	1	39,664	1	4,882	1	22,675	1
Colorado	4,218	19	2,823	19	645	19	2,630	23
Connecticut	6,774	12	6,077	11	538	20	1,621	35
Delaware	1,319	35	1,219	26	88	48	626	42
District of Columbia	2,706	24	194	45	252	36	92	52
Florida	5,498	14	3,707	14	1,086	11	5,443	8
Georgia	3,935	21	2,107	22	1,076	12	4,049	13
Hawaii	456	43	103	47	173	38	738	40
Idaho	1,370	33	992	31	93	46	686	41
Illinois	10,190	8	7,616	8	1,441	7	5,933	7
Indiana	4,326	18	3,572	15	651	18	3,853	14
Iowa	1,346	34	753	33	486	25	2,603	24
Kansas	1,865	28	1,427	24	300	31	1,831	32
Kentucky	1,128	36	656	34	333	30	2,590	25
Louisiana	858	37	248	42	483	26	3,294	17
Maine	429	44	250	41	69	50	550	44
Maryland	9,030	10	3,800	13	1,880	5	3,141	18
Massachusetts	14,316	3	10,279	5	1,706	6	2,337	27
Michigan	15,082	2	13,565	2	1,233	9	7,967	4
Minnesota	5,247	15	4,460	12	504	22	3,077	19
Mississippi	691	39	224	44	285	33	2,112	30
Missouri	2,478	26	1,592	23	706	15	2,837	20
Montana	236	49	66	48	122	43	553	43
Nebraska	663	40	342	36	267	35	1,259	36
Nevada	524	42	339	37	127	42	757	39
New Hampshire	1,435	32	1,153	27	220	37	500	46
New Jersey	13,020	6	11,566	3	683	17	4,127	12
New Mexico	4,689	17	331	38	293	32	1,728	33
New York	13,354	5	9,234	6	2,774	2	13,542	2
North Carolina	5,135	16	3,443	16	1,277	8	5,063	9
North Dakota	295	48	154	46	106	44	517	45
Ohio	8,310	11	6,230	10	1,117	10	6,434	6
Oklahoma	793	38	412	35	282	34	2,129	29
Oregon	2,892	23	2,320	21	387	28	2,700	21
Pennsylvania	9,763	9	7,064	9	1,913	4	6,455	5
Puerto Rico	na	na	na	na	70	49	903	38
Rhode Island	1,639	30	1,121	28	163	39	451	47
South Carolina	1,668	29	1,054	30	400	27	2,194	28
South Dakota	111	50	53	49	38	52	382	50
Tennessee	2,568	25	1,289	25	491	24	2,431	26
Texas	14,223	4	10,744	4	2,535	3	12,744	3
Utah	1,572	31	1,116	29	360	29	2,085	31
Vermont	398	46	286	39	90	47	426	49
Virginia	5,895	13	2,920	18	694	16	4,416	10
Washington	10,511	7	8,579	7	748	14	4,206	11
West Virginia	542	41	264	40	97	45	916	37
Wisconsin	3,585	22	2,649	20	806	13	3,814	15
Wyoming	80	51	21	51	42	51	354	51

State	Number of SBIR awards, 1999-2002		Utility patents issued to state residents, 2002		Gross state product, 2001	
	State total	Rank	State total	Rank	State total (billions of dollars)	Rank
United States	19,383	na	86,971	na	10,206	na
Alabama	347	16	398	35	121	25
Alaska	11	51	43	51	29	47
Arizona	399	13	1,588	18	161	23
Arkansas	33	48	184	41	68	35
California	3,923	1	18,829	1	1,359	1
Colorado	984	4	1,939	13	174	21
Connecticut	349	15	1,805	17	166	22
Delaware	81	32	354	37	41	43
District of Columbia	83	30	61	49	64	37
Florida	442	12	2,397	11	491	4
Georgia	205	23	1,295	22	300	10
Hawaii	82	31	73	47	44	41
Idaho	45	42	1,828	15	37	46
Illinois	300	18	3,470	7	476	5
Indiana	116	27	1,397	21	190	16
Iowa	45	42	630	27	91	30
Kansas	71	34	421	34	87	31
Kentucky	54	39	450	32	120	26
Louisiana	48	41	445	33	149	24
Maine	63	36	153	43	37	44
Maryland	958	5	1,460	19	195	15
Massachusetts	2,792	2	3,608	6	288	11
Michigan	331	17	3,862	4	320	9
Minnesota	275	19	2,751	10	188	17
Mississippi	41	44	156	42	67	36
Missouri	88	29	837	24	181	19
Montana	105	28	138	45	23	49
Nebraska	35	47	212	40	57	38
Nevada	57	38	308	38	79	32
New Hampshire	243	21	609	28	47	40
New Jersey	573	10	3,762	5	365	8
New Mexico	351	14	371	36	55	39
New York	751	6	6,360	2	826	2
North Carolina	231	22	1,822	16	276	12
North Dakota	26	49	73	47	19	52
Ohio	733	8	3,329	9	374	7
Oklahoma	63	36	466	31	94	29
Oregon	249	20	1,450	20	120	27
Pennsylvania	663	9	3,343	8	408	6
Puerto Rico	3	52	16	52	68	34
Rhode Island	71	34	260	39	37	45
South Carolina	72	33	599	29	115	28
South Dakota	25	50	76	46	24	48
Tennessee	159	26	831	25	183	18
Texas	740	7	6,029	3	764	3
Utah	195	25	675	26	70	33
Vermont	54	39	487	30	19	51
Virginia	1,076	3	1,160	23	273	13
Washington	461	11	2,098	12	223	14
West Virginia	36	46	151	44	42	42
Wisconsin	205	23	1,864	14	177	20
Wyoming	40	45	48	50	20	50

na = not applicable.

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 the estimates of industry R&D and 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. The data source for Puerto Rico's personal income per capita and gross state product was the Puerto Rico Federal Affairs Administration, Washington, D.C. Data on graduate students, doctoral scientists and engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health fields. Data on S&E doctorates awarded do not include 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 (S&E) State Profiles.