

State Science and Engineering Profiles and R&D Patterns: 2000-2001

State	Doctoral scientists, 2001 ¹		Doctoral engineers, 2001 ¹		S&E doctorates awarded, 2001 ¹		S&E postdoctorates in doctorate-granting institutions, 2001 ¹		S&E graduate students in doctorate-granting institutions, 2001 ¹		Population, 2002 (thousands)	
	State total	State rank	State total	State rank	State total	State rank	State total	State rank	State total	State rank	State total	State rank
United States	542,940		112,770		25,509		42,899		452,411		292,228	
Alabama	5,040	28	1,340	26	287	27	393	25	6,861	22	4,487	23
Alaska	1,350	48	80	52	26	52	0	52	453	52	644	48
Arizona	6,720	26	2,000	17	403	21	512	24	7,520	20	5,456	19
Arkansas	2,670	38	370	42	62	43	88	41	2,338	39	2,710	34
California	70,650	1	21,040	1	3,334	1	6,910	1	45,097	1	35,116	1
Colorado	12,150	16	2,070	16	485	17	1,206	9	9,439	15	4,507	22
Connecticut	9,620	19	1,410	25	370	24	808	16	5,579	27	3,461	30
Delaware	3,530	35	840	32	128	38	131	36	1,578	44	807	46
District of Columbia	13,410	15	1,150	28	291	26	145	34	8,418	18	571	51
Florida	16,330	12	3,080	12	781	9	687	20	20,945	6	16,713	4
Georgia	11,860	17	1,780	20	608	15	856	15	9,386	16	8,560	10
Hawaii	2,550	39	310	44	107	39	69	42	1,655	43	1,245	43
Idaho	2,090	43	570	35	51	46	34	47	1,781	41	1,341	40
Illinois	20,680	7	3,940	9	1,323	5	1,352	8	24,516	4	12,601	5
Indiana	9,080	20	1,790	19	667	11	723	17	9,610	14	6,159	14
Iowa	4,500	32	560	36	376	23	550	23	4,962	28	2,937	31
Kansas	4,170	34	550	37	264	28	316	29	6,501	25	2,716	33
Kentucky	4,950	30	450	40	172	33	351	28	4,061	33	4,093	26
Louisiana	5,270	27	870	31	334	25	271	31	6,576	24	4,483	24
Maine	2,120	42	280	45	30	51	40	46	660	50	1,294	41
Maryland	22,150	6	3,440	10	664	12	1,671	6	10,949	13	5,458	18
Massachusetts	26,970	4	4,890	4	1,448	4	5,544	2	23,554	5	6,428	13
Michigan	14,630	13	4,570	8	906	8	1,115	10	17,504	9	10,050	8
Minnesota	10,680	18	1,950	18	455	19	945	12	7,117	21	5,020	21
Mississippi	2,930	36	660	33	129	37	118	38	3,065	36	2,872	32
Missouri	8,850	21	1,440	24	439	20	918	14	7,524	19	5,673	17
Montana	1,730	47	100	49	42	48	98	39	1,259	47	909	45
Nebraska	2,820	37	330	43	164	34	146	33	2,866	37	1,729	39
Nevada	1,790	46	540	38	52	44	14	49	1,772	42	2,173	36
New Hampshire	2,350	41	650	34	76	41	122	37	1,438	45	1,275	42
New Jersey	20,660	8	4,690	6	621	14	691	19	11,317	12	8,590	9
New Mexico	6,800	25	2,340	14	147	36	51	44	3,853	34	1,855	37
New York	42,610	2	6,490	3	2,128	2	4,041	3	37,677	2	19,158	3
North Carolina	16,780	11	2,340	14	726	10	1,440	7	11,621	11	8,320	11
North Dakota	1,150	51	130	48	43	47	60	43	1,274	46	634	49
Ohio	18,580	9	4,780	5	1,061	7	942	13	19,052	8	11,421	7
Oklahoma	4,240	33	920	30	238	30	167	32	4,377	31	3,494	29
Oregon	7,260	24	1,460	23	262	29	355	27	4,385	30	3,522	28
Pennsylvania	24,630	5	4,650	7	1,247	6	2,332	5	19,358	7	12,335	6
Puerto Rico	1,310	49	220	47	97	40	7	51	4,125	32	3,859	27
Rhode Island	2,370	40	500	39	162	35	135	35	1,870	40	1,070	44
South Carolina	5,030	29	980	29	216	32	386	26	3,522	35	4,107	25
South Dakota	1,160	50	90	51	34	50	9	50	1,153	48	761	47
Tennessee	8,680	22	1,660	21	377	22	696	18	6,583	23	5,797	16
Texas	28,610	3	8,910	2	1,598	3	2,596	4	29,823	3	21,780	2
Utah	4,700	31	1,220	27	236	31	306	30	4,695	29	2,316	35
Vermont	1,800	45	240	46	52	44	92	40	612	51	617	50
Virginia	16,960	10	3,400	11	628	13	646	21	13,903	10	7,294	12
Washington	14,540	14	2,610	13	457	18	1,099	11	6,308	26	6,069	15
West Virginia	1,980	44	380	41	67	42	34	47	2,534	38	1,802	38
Wisconsin	8,520	23	1,610	22	530	16	638	22	8,486	17	5,441	20
Wyoming	940	52	100	49	38	49	43	45	899	49	499	52

See explanatory information at end of table.

State Science and Engineering Profiles and R&D Patterns: 2000-2001

State	Civilian labor force, 2002 (thousands)		Personal income per capita, 2001		Total Federal expenditures, 2001 (millions)		Federal R&D obligations, 2001 (millions)		Total R&D performance, 2000 (millions)		Industry R&D, 2000 (millions)	
	State total	State rank	State total	State rank	State total	State rank	State total	State rank	State total	State rank	State total	State rank
United States	146,712		\$30,472		\$1,753,011		\$78,006		\$244,855		\$187,544	
Alabama	2,103	23	24,589	44	31,700	19	2,333	12	1,730	27	607	32
Alaska	323	50	30,936	15	6,403	46	212	42	196	47	9	50
Arizona	2,672	21	25,872	39	30,376	21	1,781	14	3,107	19	2,445	18
Arkansas	1,285	34	22,887	49	16,632	34	184	44	454	42	273	38
California	17,405	1	32,702	11	188,517	1	12,651	1	55,093	1	45,769	1
Colorado	2,437	22	33,470	8	24,345	27	1,341	20	4,230	17	3,140	15
Connecticut	1,773	28	42,435	1	22,742	28	1,377	19	4,888	14	4,371	11
Delaware	423	46	32,472	12	4,246	50	70	50	1,532	28	1,444	24
District of Columbia	304	51	40,150	2	30,941	20	2,606	9	2,296	24	112	44
Florida	8,084	4	28,947	23	99,998	4	2,648	8	4,663	15	3,212	14
Georgia	4,292	10	28,733	26	47,320	11	3,396	5	2,796	21	1,579	23
Hawaii	582	43	29,002	22	9,722	40	293	38	291	46	44	47
Idaho	684	42	24,621	43	7,529	43	209	43	1,434	30	1,338	25
Illinois	6,378	5	33,023	10	65,036	7	1,694	15	12,767	6	10,661	4
Indiana	3,175	14	27,783	32	32,166	18	535	25	3,252	18	2,668	17
Iowa	1,667	30	27,331	34	17,401	32	324	34	1,017	34	538	35
Kansas	1,414	31	28,565	29	16,699	33	307	36	1,420	31	1,140	28
Kentucky	1,966	26	24,923	41	25,835	24	272	40	866	35	582	34
Louisiana	2,006	24	24,535	45	27,816	22	276	39	627	38	126	43
Maine	686	41	26,723	36	8,180	42	451	28	319	45	201	41
Maryland	2,898	20	35,188	6	48,164	10	9,290	2	8,634	10	2,032	19
Massachusetts	3,486	13	38,907	3	44,179	14	4,318	4	13,004	5	9,863	6
Michigan	5,001	8	29,788	19	51,632	9	1,176	21	18,892	2	17,640	2
Minnesota	2,918	19	33,101	9	24,935	25	901	23	4,299	16	3,722	12
Mississippi	1,298	33	21,750	51	20,212	30	402	31	513	39	101	45
Missouri	2,990	17	28,226	30	39,191	15	909	22	2,583	23	1,893	21
Montana	464	45	23,963	47	6,618	45	137	45	170	48	28	49
Nebraska	959	37	28,886	24	10,771	39	125	46	439	43	199	42
Nevada	1,122	36	29,897	18	9,624	41	295	37	377	44	248	39
New Hampshire	706	40	34,138	7	6,314	47	419	30	775	36	586	33
New Jersey	4,368	9	38,509	4	46,240	12	1,592	16	13,133	4	12,062	3
New Mexico	878	38	23,155	48	16,587	35	2,581	11	3,085	20	1,158	27
New York	9,362	3	36,019	5	116,366	2	3,336	6	13,556	3	10,539	5
North Carolina	4,171	11	27,514	33	44,557	13	1,401	18	5,045	13	3,672	13
North Dakota	346	49	25,902	38	5,948	48	78	49	146	49	51	46
Ohio	5,828	7	28,816	25	61,705	8	2,327	13	7,662	11	5,962	10
Oklahoma	1,693	29	25,071	40	22,672	29	226	41	660	37	333	37
Oregon	1,834	27	28,165	31	18,401	31	523	26	2,116	25	1,651	22
Pennsylvania	6,290	6	30,720	16	79,310	5	2,602	10	9,842	9	7,873	9
Puerto Rico	1,356	32	10,816	52	13,181	36	91	48	na	na	na	na
Rhode Island	556	44	30,215	17	6,989	44	437	29	1,501	29	1,090	29
South Carolina	1,968	25	24,886	42	24,675	26	314	35	1,126	33	781	31
South Dakota	421	47	26,664	37	5,807	49	55	51	85	50	44	47
Tennessee	2,926	18	26,988	35	36,758	17	845	24	2,057	26	1,215	26
Texas	10,751	2	28,581	28	112,530	3	2,925	7	11,552	7	8,961	8
Utah	1,180	35	24,180	46	11,377	38	395	32	1,361	32	979	30
Vermont	349	48	28,594	27	3,734	51	113	47	465	40	396	36
Virginia	3,735	12	32,431	13	71,257	6	4,810	3	5,069	12	2,718	16
Washington	3,097	15	32,025	14	36,903	16	1,545	17	10,516	8	9,265	7
West Virginia	804	39	22,881	50	12,541	37	353	33	457	41	235	40
Wisconsin	3,028	16	29,270	21	26,645	23	488	27	2,693	22	1,981	20
Wyoming	270	52	29,416	20	3,584	52	37	52	61	51	7	51

See explanatory information at end of table.

State Science and Engineering Profiles and R&D Patterns: 2000-2001

State	Academic R&D, 2001 (millions)		Public higher education current-fund expenditures, 2000 (millions)		Number of SBIR awards, 1999-2001		Utility patents issued to state residents, 2001		Gross state product, 2000 (billions)	
	State total	State rank	State total	State rank	State total	State rank	State total	State rank	State total	State rank
United States	\$32,716		\$152,068		13,650		87,605		\$10,003	
Alabama	445	23	3,338	16	248	15	382	34	120	25
Alaska	116	42	386	49	9	51	50	51	28	47
Arizona	501	20	2,508	23	287	13	1,540	18	156	23
Arkansas	141	40	1,529	35	25	46	180	41	68	34
California	4,422	1	20,204	1	2,726	1	18,598	1	1,345	1
Colorado	573	19	2,440	26	690	4	1,927	14	168	21
Connecticut	499	21	1,568	34	245	16	1,853	15	159	22
Delaware	80	46	606	42	65	29	382	34	36	45
District of Columbia	228	36	82	52	57	32	67	49	59	37
Florida	997	10	4,948	8	310	12	2,649	10	472	4
Georgia	989	12	3,956	11	144	24	1,370	20	296	10
Hawaii	157	38	679	40	62	30	95	47	42	41
Idaho	82	45	627	41	30	42	1,697	17	37	43
Illinois	1,281	7	5,525	7	223	17	3,640	7	467	5
Indiana	584	18	3,633	14	78	27	1,358	21	192	15
Iowa	440	24	2,612	21	28	45	751	26	90	30
Kansas	269	32	1,734	32	52	33	312	38	85	31
Kentucky	297	30	2,442	25	40	38	481	32	119	27
Louisiana	432	25	3,237	17	35	40	520	31	138	24
Maine	68	49	508	43	45	36	145	44	36	46
Maryland	1,644	5	2,921	18	684	5	1,483	19	186	16
Massachusetts	1,577	6	2,149	28	1,993	2	3,667	6	285	11
Michigan	1,107	9	7,330	4	221	18	3,854	5	325	9
Minnesota	469	22	2,898	19	188	19	2,635	11	185	17
Mississippi	242	34	2,009	29	29	44	166	42	67	35
Missouri	678	15	2,618	20	59	31	841	24	179	18
Montana	108	43	508	44	71	28	145	44	22	49
Nebraska	242	35	1,225	36	25	46	215	40	56	38
Nevada	116	41	701	39	32	41	313	37	75	32
New Hampshire	197	37	470	46	170	21	598	28	48	40
New Jersey	609	17	3,853	12	403	10	3,869	4	363	8
New Mexico	274	31	1,610	33	262	14	376	36	54	39
New York	2,476	2	7,799	3	527	6	6,349	3	799	2
North Carolina	1,137	8	4,665	9	170	21	1,946	13	282	12
North Dakota	85	44	487	45	19	49	97	46	18	52
Ohio	996	11	6,011	5	513	8	3,274	9	373	7
Oklahoma	255	33	1,904	31	40	38	576	29	92	29
Oregon	366	27	2,503	24	181	20	1,259	22	119	26
Pennsylvania	1,687	4	5,679	6	458	9	3,534	8	404	6
Puerto Rico	64	50	825	38	2	52	11	52	62	36
Rhode Island	143	39	421	47	52	33	287	39	36	44
South Carolina	361	28	2,515	22	47	35	565	30	113	28
South Dakota	32	52	350	50	16	50	76	48	23	48
Tennessee	423	26	2,258	27	118	26	813	25	178	19
Texas	2,244	3	10,820	2	520	7	6,371	2	742	3
Utah	338	29	1,978	30	134	25	715	27	69	33
Vermont	77	48	411	48	44	37	453	33	18	51
Virginia	611	16	4,086	10	743	3	1,115	23	261	13
Washington	707	14	3,808	13	326	11	1,969	12	220	14
West Virginia	79	47	847	37	23	48	148	43	42	42
Wisconsin	729	13	3,512	15	151	23	1,837	16	173	20
Wyoming	42	51	333	51	30	42	51	50	19	50

¹Data 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.

KEY: na = not applicable or not available.

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.

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".