

## Science and engineering profiles, by state: 2005–07

Location	Employed SEH doctorate holders, 2006 <sup>a</sup>		S&E doctorates awarded, 2006		SEH postdoctorates in doctorate- granting institutions, 2006	
	Total	Rank	Total	Rank	Total	Rank
United States	620,140	–	29,854	–	49,201	–
Alabama	5,900	28	338	25	278	31
Alaska	1,110 <sup>†</sup>	50	21	52	0	51
Arizona	8,410	24	507	19	495	24
Arkansas	2,840	40	107	40	139	38
California	87,370	1	4,005	1	7,550	1
Colorado	13,150	16	477	21	1,099	14
Connecticut	10,330	19	443	22	1,216	12
Delaware	3,110	36	146	38	120	40
District of Columbia	13,330	15	338	25	208	35
Florida	17,630	13	1,082	8	1,359	10
Georgia	12,970	17	791	12	1,230	11
Hawaii	2,850	39	91	43	98	43
Idaho	2,840 <sup>†</sup>	40	67	45	44	47
Illinois	24,110	7	1,466	6	1,459	8
Indiana	9,870	21	762	13	840	18
Iowa	4,890	32	402	23	544	23
Kansas	4,250	34	268	29	351	28
Kentucky	4,960	31	255	30	486	25
Louisiana	5,480	30	303	28	311	30
Maine	2,350 <sup>†</sup>	44	27	51	0	51
Maryland	26,160	6	840	11	1,710	7
Massachusetts	32,400	4	1,724	4	6,670	2
Michigan	17,900	12	1,066	9	1,373	9
Minnesota	11,800	18	533	18	1,057	15
Mississippi	3,310	35	169	36	194	36
Missouri	9,300	23	503	20	671	22
Montana	1,990 <sup>†</sup>	46	65	46	135	39
Nebraska	2,970	38	149	37	218	34
Nevada	2,620	42	99	41	101	42
New Hampshire	2,470 <sup>†</sup>	43	96	42	235	32
New Jersey	20,810	8	670	15	692	21
New Mexico	8,300	25	193	35	105	41
New York	45,850	2	2,530	2	4,182	3
North Carolina	18,910	11	876	10	1,960	6
North Dakota	1,380 <sup>†</sup>	49	51	47	39	48
Ohio	20,540	9	1,197	7	972	16
Oklahoma	4,420	33	220	34	162	37
Oregon	8,270	26	317	27	320	29
Pennsylvania	29,120	5	1,472	5	2,530	5
Puerto Rico	1,690	47	77	44	21	49
Rhode Island	3,020	37	222	33	228	33
South Carolina	5,910	27	238	31	360	27
South Dakota	1,050 <sup>†</sup>	51	36	50	19	50
Tennessee	9,980	20	395	24	762	20
Texas	36,000	3	1,930	3	3,189	4
Utah	5,520	29	238	31	367	26
Vermont	1,690 <sup>†</sup>	47	49	48	79	44
Virginia	19,850	10	727	14	931	17
Washington	16,920	14	544	17	1,203	13
West Virginia	2,000 <sup>†</sup>	45	117	39	59	45
Wisconsin	9,530	22	577	16	781	19
Wyoming	730 <sup>†</sup>	52	38	49	49	46

## Science and engineering profiles, by state: 2005–07

Location	SEH graduate students in doctorate-granting institutions, 2006		Population, 2007		Civilian labor force, 2007		Personal income per capita, 2006	
	Total	Rank	Total (thousands)	Rank	Total (thousands)	Rank	Total (\$)	Rank
United States	542,073	–	305,563	–	154,046	–	36,629	–
Alabama	7,858	22	4,628	23	2,183	23	30,841	43
Alaska	661	52	683	48	352	50	38,622	15
Arizona	8,190	21	6,339	16	3,029	19	31,949	39
Arkansas	3,760	35	2,835	33	1,368	33	28,444	49
California	52,480	1	36,553	1	18,188	1	39,358	11
Colorado	10,683	19	4,862	22	2,706	22	39,587	9
Connecticut	7,081	25	3,502	30	1,865	28	50,787	2
Delaware	2,045	44	865	46	443	46	38,984	13
District of Columbia	11,641	15	588	51	326	51	57,358	1
Florida	26,317	5	18,251	4	9,148	4	36,665	21
Georgia	11,535	16	9,545	9	4,815	9	32,025	38
Hawaii	2,058	43	1,283	43	649	43	36,826	19
Idaho	2,141	42	1,499	40	754	40	29,948	44
Illinois	25,639	6	12,853	5	6,697	5	38,297	16
Indiana	11,293	17	6,345	15	3,211	15	32,226	37
Iowa	5,479	29	2,988	31	1,661	30	33,017	31
Kansas	6,659	26	2,776	34	1,479	31	34,744	23
Kentucky	4,925	31	4,241	26	2,044	25	29,719	47
Louisiana	6,131	27	4,293	25	1,998	26	31,369	41
Maine	728	51	1,317	41	705	42	31,931	40
Maryland	14,071	13	5,618	19	2,980	20	43,774	6
Massachusetts	27,109	4	6,450	14	3,408	13	46,255	4
Michigan	18,885	9	10,072	8	5,020	8	33,784	27
Minnesota	15,818	10	5,198	21	2,931	21	38,751	14
Mississippi	3,626	37	2,919	32	1,315	36	26,908	51
Missouri	10,751	18	5,878	18	3,031	18	32,793	32
Montana	1,477	47	958	45	501	45	30,886	42
Nebraska	3,324	38	1,775	39	983	37	34,383	26
Nevada	2,554	40	2,565	36	1,336	35	39,015	12
New Hampshire	1,776	46	1,316	42	738	41	39,655	8
New Jersey	12,903	14	8,686	11	4,466	11	46,328	3
New Mexico	4,030	34	1,970	37	943	38	29,725	46
New York	48,022	2	19,298	3	9,519	3	43,962	5
North Carolina	14,456	12	9,061	10	4,519	10	32,338	35
North Dakota	1,799	45	640	49	366	48	33,034	30
Ohio	21,263	8	11,467	7	5,977	7	33,217	29
Oklahoma	4,444	33	3,617	29	1,733	29	32,398	34
Oregon	5,107	30	3,747	28	1,928	27	33,252	28
Pennsylvania	24,031	7	12,433	6	6,287	6	36,689	20
Puerto Rico	4,526	32	3,941	27	1,394	32	12,997	52
Rhode Island	2,177	41	1,058	44	577	44	37,261	18
South Carolina	3,720	36	4,408	24	2,137	24	29,688	48
South Dakota	1,292	48	796	47	443	46	32,405	33
Tennessee	7,813	23	6,157	17	3,037	17	32,305	36
Texas	37,004	3	23,904	2	11,492	2	35,058	22
Utah	6,052	28	2,645	35	1,362	34	29,769	45
Vermont	757	50	621	50	354	49	34,623	24
Virginia	15,605	11	7,712	12	4,054	12	39,564	10
Washington	7,423	24	6,468	13	3,408	13	38,067	17
West Virginia	2,908	39	1,812	38	809	39	28,067	50
Wisconsin	9,082	20	5,602	20	3,089	16	34,476	25
Wyoming	964	49	523	52	288	52	40,569	7

## Science and engineering profiles, by state: 2005–07

Location	Total federal expenditures, 2005		Federal R&D obligations, 2005		Total R&D performance, 2005		Industry R&D, 2005	
	Total (\$millions)	Rank	Total (\$millions)	Rank	Total (\$millions)	Rank	Total (\$millions)	Rank
United States	2,260,098	–	106,845	–	310,194	–	222,427	–
Alabama	42,061	20	2,800	11	2,804	27	1,417	27
Alaska	9,230	44	234	42	266	49	32	50
Arizona	44,639	18	2,674	12	4,139	20	2,980	20
Arkansas	20,387	34	154	46	528	43	271	42
California	242,023	1	19,380	1	63,874	1	50,683	1
Colorado	31,173	26	2,037	18	5,807	17	4,299	16
Connecticut	30,774	28	2,154	17	8,987	11	7,885	10
Delaware	5,495	50	94	50	1,635	34	1,511	25
District of Columbia	37,859	22	3,993	8	3,342	25	166	46
Florida	134,544	4	2,198	16	6,224	16	4,164	17
Georgia	59,846	11	1,707	21	3,867	22	2,282	23
Hawaii	12,699	41	384	35	513	45	168	45
Idaho	9,598	43	273	38	1,030	36	642	34
Illinois	80,778	7	1,983	19	12,519	8	9,712	7
Indiana	42,347	19	554	30	5,455	18	4,610	14
Iowa	20,345	35	448	31	1,669	33	1,039	32
Kansas	20,492	33	198	43	2,366	28	1,993	24
Kentucky	34,653	23	263	39	1,136	35	660	33
Louisiana	39,628	21	402	34	966	37	300	41
Maine	11,356	42	240	41	524	44	350	40
Maryland	66,720	9	12,211	2	14,136	6	3,706	18
Massachusetts	55,830	14	5,702	4	17,757	3	13,342	3
Michigan	64,787	10	1,105	23	18,372	2	16,752	2
Minnesota	31,067	27	758	26	7,137	15	6,340	11
Mississippi	26,181	30	424	32	777	40	194	44
Missouri	48,273	16	4,040	7	3,627	24	2,602	22
Montana	7,814	47	177	44	318	47	77	48
Nebraska	12,785	40	145	47	800	39	407	36
Nevada	14,089	39	382	36	614	41	382	38
New Hampshire	8,331	46	364	37	1,776	32	1,435	26
New Jersey	58,617	13	2,344	15	14,900	5	13,214	4
New Mexico	20,604	32	3,279	9	5,265	19	405	37
New York	144,876	3	4,956	6	14,103	7	9,474	8
North Carolina	59,162	12	1,791	20	7,329	14	5,158	13
North Dakota	6,608	49	105	48	285	48	104	47
Ohio	77,881	8	2,370	14	8,267	13	5,900	12
Oklahoma	27,637	29	254	40	814	38	422	35
Oregon	22,792	31	557	29	3,920	21	3,252	19
Pennsylvania	99,503	5	3,235	10	11,916	9	8,846	9
Puerto Rico	16,174	36	101	49	na	na	na	na
Rhode Island	8,423	45	572	28	1,990	30	1,387	29
South Carolina	32,044	25	408	33	2,108	29	1,402	28
South Dakota	7,481	48	70	51	157	50	68	49
Tennessee	48,288	15	1,293	22	3,009	26	1,246	30
Texas	148,683	2	4,989	5	15,867	4	12,438	5
Utah	14,823	38	814	24	1,886	31	1,234	31
Vermont	4,645	52	171	45	493	46	360	39
Virginia	95,097	6	8,214	3	8,568	12	4,379	15
Washington	46,338	17	2,388	13	11,864	10	9,736	6
West Virginia	16,087	37	773	25	567	42	242	43
Wisconsin	33,749	24	648	27	3,802	23	2,729	21
Wyoming	4,782	51	34	52	122	51	30	51

## Science and engineering profiles, by state: 2005–07

Location	Academic R&D, 2006		SBIR awards, 2000–06		Utility patents issued to state residents, 2006		Gross domestic product, 2006	
	Total (\$millions)	Rank	Total	Rank	Total	Rank	Total (\$billions)	Rank
United States	47,735	–	38,825	–	89,820	–	13,235	–
Alabama	602	24	788	14	357	35	161	25
Alaska	163	43	26	51	36	51	41	47
Arizona	765	20	727	15	1,705	16	232	19
Arkansas	237	39	111	38	138	42	92	34
California	6,493	1	7,813	1	22,275	1	1,727	1
Colorado	821	19	1,908	5	2,118	13	230	20
Connecticut	693	22	605	16	1,652	19	204	23
Delaware	122	46	164	31	357	35	60	40
District of Columbia	296	37	109	39	63	49	88	35
Florida	1,528	10	912	11	2,600	12	714	4
Georgia	1,303	12	413	23	1,487	20	380	10
Hawaii	257	38	137	34	84	46	58	41
Idaho	111	49	100	41	1,663	18	50	44
Illinois	1,824	7	588	18	3,294	6	590	5
Indiana	823	18	269	26	1,165	22	249	16
Iowa	573	25	101	40	666	27	124	30
Kansas	354	34	136	36	492	31	112	32
Kentucky	479	29	88	45	413	33	146	28
Louisiana	539	27	100	41	321	38	193	24
Maine	120	48	146	33	142	41	47	45
Maryland	2,530	4	1,940	4	1,410	21	258	15
Massachusetts	2,159	6	5,217	2	4,011	4	338	13
Michigan	1,473	11	802	13	3,758	5	381	9
Minnesota	605	23	548	20	2,957	9	245	17
Mississippi	369	32	74	46	119	44	84	37
Missouri	900	16	198	29	721	24	226	22
Montana	173	42	209	28	121	43	32	49
Nebraska	359	33	67	48	186	40	76	39
Nevada	194	41	125	37	386	34	118	31
New Hampshire	315	35	444	22	602	28	56	42
New Jersey	858	17	1,059	10	3,172	8	453	8
New Mexico	425	30	595	17	344	37	76	38
New York	3,790	2	1,587	7	5,627	3	1,022	3
North Carolina	1,710	8	553	19	1,974	15	375	11
North Dakota	160	44	50	49	66	48	26	51
Ohio	1,636	9	1,584	8	2,630	11	461	7
Oklahoma	298	36	167	30	544	30	135	29
Oregon	557	26	474	21	2,060	14	151	26
Pennsylvania	2,428	5	1,449	9	2,842	10	510	6
Puerto Rico	102	50	10	52	25	52	86	36
Rhode Island	230	40	137	34	269	39	46	46
South Carolina	524	28	155	32	577	29	149	27
South Dakota	73	52	33	50	74	47	32	48
Tennessee	743	21	268	27	669	26	238	18
Texas	3,271	3	1,693	6	6,308	2	1,066	2
Utah	413	31	354	25	684	25	98	33
Vermont	122	47	99	44	437	32	24	52
Virginia	947	15	2,228	3	1,094	23	369	12
Washington	988	14	910	12	3,286	7	294	14

Science and engineering profiles, by state: 2005–07

Location	Academic R&D, 2006		SBIR awards, 2000–06		Utility patents issued to state residents, 2006		Gross domestic product, 2006	
	Total (\$millions)	Rank	Total	Rank	Total	Rank	Total (\$billions)	Rank
West Virginia	149	45	100	41	103	45	56	43
Wisconsin	1,040	13	382	24	1,688	17	227	21
Wyoming	89	51	73	47	48	50	30	50

† Coefficient of variation >10% but < 25; . = no value possible; na = not applicable, data were not collected.

S&E = science and engineering; SEH = science, engineering, and health; SBIR = small business innovation research.

<sup>a</sup> Doctorate holders working in U.S. territories other than Puerto Rico and those whose location is unknown are included in total but not broken out separately.

NOTES: Ranking and totals are based on data for the 50 states, District of Columbia, and Puerto Rico. Rankings are based on unrounded totals; they do not account for margin of error of estimates from sample surveys. Employed SEH doctorate holders include only recipients of U.S. doctoral degrees. State estimates for employed SEH doctorate holders may have large sampling errors because the source for these data, the Survey of Doctorate Recipients, was not designed to provide a sample for estimates at the state level; these data are classified by the state where the doctorate holder resides, if known; otherwise, data are classified by employer's location.

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 State Profiles".