

State Indicators

S-23 Science and Engineering Doctoral Degrees as a Percentage of Science and Engineering Degrees Conferred

Description

This indicator represents the extent to which a state's higher education programs in S&E are focused on producing individuals with the highest level of technical expertise. The academic and technical leaders of the future are often drawn from individuals receiving S&E doctoral degrees. S&E fields include the physical, life, earth, ocean, atmospheric, computer, and social sciences; mathematics; engineering; and psychology. They do not include medical fields or technologies. Total S&E degrees conferred include bachelor's, master's, and doctoral degrees but exclude associate's degrees.

The indicator value is computed by dividing the number of doctoral degrees awarded in S&E fields by the total number of S&E degrees awarded by the higher education institutions within the state. The numbers of degrees awarded is an actual count provided by the National Center for Education Statistics and includes degrees from both public and private institutions.

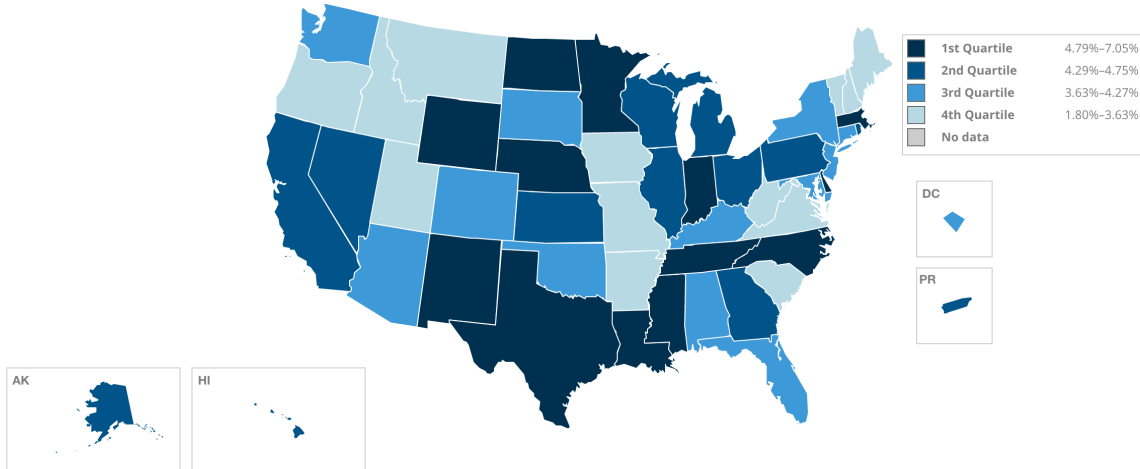
Student mobility after graduation is not accounted for, which may make this indicator less meaningful in predicting the qualifications of a state's future technical workforce. In states with a small number of S&E graduate programs, the number of S&E doctoral degrees awarded may vary considerably from year to year. Readers should use caution when making annual comparisons for those states with small numbers of S&E doctorates.

Data source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System.

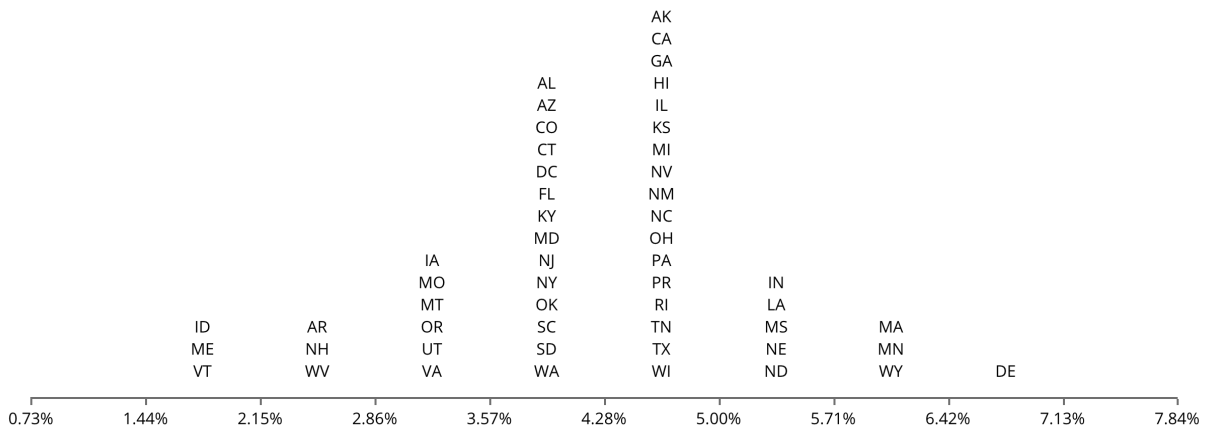
State Indicators

S-23 Science and Engineering Doctoral Degrees as a Percentage of Science and Engineering Degrees Conferred

2016



Distribution of states across indicator values, 2016



Histograms do not display states with extreme values. Please consult the data tables for exact indicator values for each state. State positions on the histogram are based on unrounded values of the indicator and may not always match the rounded values displayed in the table.

State Indicators

Science and Engineering Doctoral Degrees as a Percentage of Science and Engineering Degrees Conferred

(Percent)

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	5.13	5.20	5.12	5.18	5.17	5.20	5.20	5.21	5.24	4.97
Alabama	2.93	3.11	3.24	3.15	3.31	2.97	4.03	3.93	4.47	3.88
Alaska	1.12	2.00	1.92	1.68	3.83	2.61	3.43	2.21	7.84	3.30
Arizona	6.51	7.67	6.79	6.47	7.24	6.25	6.45	6.78	6.22	6.10
Arkansas	3.71	2.69	2.41	2.48	2.87	2.43	2.34	2.33	2.62	2.00
California	5.82	5.95	5.74	6.05	5.98	6.44	5.74	5.93	6.13	5.95
Colorado	5.57	5.66	5.12	5.33	5.00	4.99	5.35	5.33	4.77	5.24
Connecticut	5.64	5.46	5.37	5.49	5.81	5.83	5.55	5.68	6.18	5.28
Delaware	5.99	5.05	6.20	6.49	4.84	4.80	6.44	6.07	5.59	5.92
District of Columbia	5.61	4.77	4.58	5.41	4.89	4.42	4.48	4.84	4.52	4.55
Florida	4.80	4.44	4.37	4.37	4.39	4.11	4.28	4.28	4.73	4.84
Georgia	4.36	5.31	5.25	4.57	4.24	4.92	5.24	4.80	4.99	4.81
Hawaii	6.35	6.81	6.97	7.25	6.84	6.40	6.59	6.30	6.24	5.71
Idaho	5.33	4.18	4.30	3.25	4.07	3.63	3.19	3.46	3.25	2.50
Illinois	6.56	7.12	6.92	6.92	6.74	7.18	7.17	7.16	7.61	6.59
Indiana	5.68	5.30	5.12	5.31	5.52	5.44	5.66	5.50	5.41	5.65
Iowa	6.18	6.62	6.23	6.40	6.05	6.35	6.40	5.47	5.90	5.20
Kansas	4.46	4.37	5.25	3.99	4.33	4.28	4.73	4.65	4.99	4.26
Kentucky	3.14	3.09	3.42	3.26	3.68	3.56	3.45	3.86	3.62	3.12
Louisiana	4.83	4.81	4.53	3.89	3.90	4.26	4.00	4.57	4.48	4.37
Maine	1.40	1.55	1.76	1.30	1.72	1.30	1.66	1.93	1.67	1.23
Maryland	5.08	4.90	4.97	5.26	5.10	4.85	5.10	5.22	5.06	4.89
Massachusetts	6.35	6.35	6.61	7.14	6.92	6.81	6.90	6.81	7.53	6.45

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Michigan	4.71	5.01	5.35	5.43	4.93	5.14	5.43	5.12	5.40	5.02
Minnesota	4.91	5.19	4.78	4.55	5.05	4.90	5.57	5.03	5.12	4.54
Mississippi	4.25	4.40	4.00	3.47	3.53	4.36	4.00	4.03	4.27	4.17
Missouri	4.74	4.41	5.08	4.36	4.76	4.17	4.41	4.05	4.25	3.47
Montana	3.21	3.06	2.85	2.99	2.25	2.67	2.59	2.68	3.38	2.66
Nebraska	5.09	3.72	4.47	4.36	4.25	4.11	4.65	4.80	4.98	5.02
Nevada	3.72	4.12	3.98	2.64	3.07	4.76	3.90	4.76	5.03	4.14
New Hampshire	2.65	2.60	2.36	3.43	3.39	2.99	2.90	3.22	3.12	3.20
New Jersey	4.57	4.61	5.62	5.21	5.38	5.58	5.41	5.40	4.65	4.71
New Mexico	6.33	5.64	5.62	5.97	5.51	6.01	6.56	5.82	6.97	6.05
New York	5.65	5.70	5.66	5.81	5.90	5.72	5.77	5.53	5.55	5.35
North Carolina	5.02	4.70	4.55	4.73	4.29	4.65	4.51	4.56	4.53	4.95
North Dakota	3.93	2.98	3.23	3.69	3.43	3.54	3.63	3.41	3.18	2.86
Ohio	5.38	5.33	4.89	5.48	5.87	5.90	5.55	6.07	5.71	4.80
Oklahoma	4.67	4.03	4.12	3.89	3.62	3.68	3.73	3.73	3.51	3.29
Oregon	4.80	4.67	4.69	4.76	5.16	4.87	4.71	4.87	4.30	4.49
Pennsylvania	4.33	4.69	4.67	4.85	4.74	5.06	4.78	4.91	4.84	4.47
Rhode Island	5.25	6.43	5.57	6.33	6.15	6.59	7.22	5.70	5.93	5.54
South Carolina	3.76	3.72	3.64	3.73	3.51	3.18	3.95	3.43	3.36	3.91
South Dakota	1.49	1.75	1.27	1.07	1.44	0.73	1.51	1.79	1.12	1.28
Tennessee	4.35	4.91	4.91	4.39	4.36	4.09	4.21	4.62	4.02	4.04
Texas	5.54	5.66	5.44	5.42	5.66	5.43	5.85	5.83	5.73	5.68
Utah	4.28	4.51	4.66	4.38	3.53	3.74	4.14	3.93	3.65	3.51
Vermont	2.27	2.01	1.46	2.19	2.24	2.09	2.26	1.72	2.17	1.49
Virginia	4.24	4.12	4.39	4.19	4.22	4.44	4.16	4.54	4.06	4.25
Washington	5.03	5.63	4.49	4.50	4.76	4.55	4.37	4.25	3.99	4.01

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
West Virginia	2.54	2.45	2.56	1.50	1.92	2.48	1.81	2.15	3.20	2.12
Wisconsin	4.89	5.44	4.81	4.88	5.88	5.35	5.11	6.07	5.71	5.41
Wyoming	7.14	6.59	4.44	4.62	4.88	5.37	5.78	6.37	6.08	5.50
Puerto Rico	1.09	1.55	1.32	1.63	1.64	1.49	1.85	2.16	2.31	3.52

Note(s):
The national doctorate S&E degrees total for the United States includes U.S. territories. All S&E degrees include bachelor's, master's, and doctoral degrees. The national S&E degrees total for the United States includes U.S. territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (various years). Data on degrees conferred prior to 2016 were retrieved from the National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR); data for 2016 are from the NCES IPEDS Data System, accessed 2 November, 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Science and Engineering Doctoral Degrees as a Percentage of Science and Engineering Degrees Conferred

(Percent)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	4.89	4.84	4.49	4.41	4.40	4.61	4.83	5.10	5.09	4.94
Alabama	3.74	3.59	3.92	4.17	3.47	4.01	3.72	3.89	4.21	4.32
Alaska	2.25	3.64	2.68	5.07	2.05	2.96	2.50	2.90	2.80	3.62
Arizona	6.41	5.92	5.17	4.71	4.63	4.20	4.48	4.60	4.10	3.96
Arkansas	2.37	2.14	2.20	2.30	2.83	3.36	3.28	2.81	3.62	3.75
California	5.76	5.80	5.32	5.43	5.23	5.16	5.53	5.90	5.85	5.68
Colorado	4.50	4.41	3.93	4.34	3.66	5.19	3.83	4.36	4.05	4.64
Connecticut	6.00	5.34	5.25	5.16	5.09	5.31	5.43	5.89	5.32	4.52
Delaware	5.80	5.80	4.44	4.12	6.54	5.38	6.09	6.27	5.76	6.74
District of Columbia	5.57	4.45	4.63	4.76	4.29	4.86	4.38	4.55	4.23	4.55
Florida	4.53	4.11	4.19	4.09	4.17	4.35	4.57	5.11	4.89	4.55
Georgia	4.52	4.67	4.69	4.19	3.83	4.74	5.34	5.93	5.97	6.19
Hawaii	4.90	4.79	3.40	4.43	3.61	4.17	3.62	3.86	5.19	4.70
Idaho	3.07	2.85	2.71	3.16	2.09	2.06	2.71	3.00	2.98	2.61
Illinois	6.77	7.45	5.89	5.77	5.47	5.63	6.08	6.28	6.13	5.29
Indiana	5.66	5.55	4.74	5.07	4.64	4.95	5.29	5.77	5.61	6.41
Iowa	4.83	5.04	4.82	3.87	4.24	4.35	5.03	5.28	5.13	4.71
Kansas	4.09	4.17	4.59	4.16	3.75	3.75	4.16	4.04	4.00	4.33
Kentucky	3.69	3.47	3.07	3.62	3.53	3.96	4.02	4.30	4.33	3.95
Louisiana	4.93	4.59	4.35	3.58	4.07	4.00	3.99	4.56	4.55	4.60
Maine	1.69	1.34	1.30	1.29	1.11	0.94	1.03	1.35	1.51	1.53
Maryland	4.63	4.75	4.35	4.11	4.01	4.39	4.98	4.94	5.20	4.74
Massachusetts	6.32	6.29	6.07	5.57	5.80	6.19	6.64	7.29	7.15	7.03

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	5.11	4.66	4.78	4.47	4.42	4.79	5.03	5.48	4.95	5.27
Minnesota	4.63	4.89	4.51	4.65	4.47	5.12	5.69	6.14	5.53	4.64
Mississippi	4.24	3.31	3.20	3.86	3.87	3.91	3.92	4.19	4.08	4.09
Missouri	3.77	3.63	3.41	3.76	3.41	3.77	4.02	3.97	3.96	3.67
Montana	1.95	1.88	2.70	2.25	2.49	2.88	3.02	3.27	3.61	3.61
Nebraska	4.30	4.02	3.79	4.96	3.86	4.00	3.49	4.21	3.93	4.34
Nevada	5.71	3.92	4.57	4.93	4.13	5.01	4.13	3.83	4.02	5.83
New Hampshire	2.28	2.65	2.84	3.27	2.75	3.56	2.98	3.52	3.47	3.44
New Jersey	4.66	4.71	3.98	3.97	4.34	4.09	4.54	4.73	4.75	4.89
New Mexico	5.19	5.30	6.74	5.11	5.93	5.52	6.12	5.38	4.99	6.11
New York	5.21	4.83	4.42	4.25	4.62	4.74	4.86	4.89	5.15	4.79
North Carolina	4.45	4.57	4.20	4.36	4.55	4.74	4.87	5.12	5.09	5.41
North Dakota	2.70	3.08	3.03	3.96	2.52	2.73	2.96	4.38	4.53	4.22
Ohio	5.36	5.66	5.03	4.83	4.75	5.09	5.55	5.29	6.06	5.46
Oklahoma	3.43	3.35	2.83	2.98	3.09	3.23	3.12	3.99	3.41	3.93
Oregon	3.84	4.60	3.45	3.89	3.68	3.48	4.00	4.23	4.17	4.21
Pennsylvania	4.27	4.31	4.19	4.21	4.36	4.55	4.79	4.82	4.74	4.73
Rhode Island	5.08	5.85	4.76	4.27	4.15	4.58	5.74	5.28	5.01	5.04
South Carolina	3.33	3.39	3.69	2.98	3.14	3.47	3.36	3.94	4.07	4.04
South Dakota	1.39	1.70	1.51	1.73	1.88	1.88	1.85	2.25	1.85	2.45
Tennessee	4.43	4.51	3.72	3.77	3.97	4.05	4.51	4.82	4.91	5.17
Texas	5.35	5.31	4.90	4.52	4.80	4.99	5.23	5.74	5.86	5.54
Utah	3.79	3.23	3.01	2.88	2.95	3.13	2.83	3.29	3.55	3.69
Vermont	1.79	2.42	2.29	1.31	1.56	1.52	1.90	1.63	1.70	1.37
Virginia	4.21	3.98	3.86	3.69	3.78	4.06	4.02	4.08	4.12	4.15
Washington	3.79	4.26	4.02	3.66	4.05	3.96	4.22	4.44	4.25	4.11

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	2.91	2.07	2.49	3.32	3.56	3.29	3.34	3.20	3.23	2.47
Wisconsin	5.07	4.68	4.59	4.34	4.06	4.17	4.53	4.82	5.27	5.05
Wyoming	5.49	3.97	3.88	5.13	3.57	4.36	4.32	5.79	6.18	5.13
Puerto Rico	2.60	3.34	3.18	2.97	3.42	4.02	3.76	4.09	4.64	3.17

Note(s):

The national doctorate S&E degrees total for the United States includes U.S. territories. All S&E degrees include bachelor's, master's, and doctoral degrees. The national S&E degrees total for the United States includes U.S. territories.

Source(s):

U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (various years). Data on degrees conferred prior to 2016 were retrieved from the National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR); data for 2016 are from the NCES IPEDS Data System, accessed 2 November, 2017.

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State Indicators

Science and Engineering Doctoral Degrees as a Percentage of Science and Engineering Degrees Conferred

(Percent)

State	2010	2011	2012	2013	2014	2015	2016
United States	4.68	4.63	4.50	4.51	4.60	4.50	4.32
Alabama	3.99	3.71	4.19	3.79	4.08	4.22	4.07
Alaska	4.38	3.15	4.94	4.14	3.76	3.47	4.40
Arizona	3.29	3.26	2.83	2.75	3.13	3.73	3.75
Arkansas	3.39	3.08	2.86	3.56	2.83	3.12	2.84
California	5.36	5.31	5.15	5.28	5.02	4.81	4.47
Colorado	4.31	4.27	4.06	4.27	4.44	4.49	4.27
Connecticut	4.88	4.67	4.71	4.79	4.88	4.69	4.20
Delaware	6.61	6.77	6.54	5.51	5.59	5.66	7.05
District of Columbia	3.23	3.87	4.05	3.58	4.00	3.84	4.15
Florida	4.48	4.49	4.14	4.02	4.12	3.93	3.65
Georgia	5.41	5.21	4.94	4.65	5.14	4.80	4.56
Hawaii	5.01	5.33	4.44	4.99	4.28	4.85	4.33
Idaho	2.16	2.31	2.06	2.50	2.75	2.21	2.11
Illinois	5.13	5.00	5.06	5.28	5.11	5.23	4.72
Indiana	5.78	5.38	5.05	5.48	5.72	5.65	5.26
Iowa	3.66	3.32	3.31	3.39	3.52	3.34	3.53
Kansas	4.35	4.89	4.36	5.02	4.66	5.38	4.61
Kentucky	4.04	3.84	4.26	3.51	4.07	3.58	3.63
Louisiana	5.31	4.10	5.23	5.44	4.80	4.68	5.08
Maine	1.23	1.42	1.47	1.33	1.78	1.81	1.80
Maryland	4.79	4.56	4.38	4.53	4.38	4.44	4.06
Massachusetts	6.43	6.59	6.35	6.20	6.27	5.92	5.99

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	4.98	4.83	5.10	4.96	5.28	5.03	4.68
Minnesota	4.86	5.34	4.98	5.53	6.40	5.97	6.21
Mississippi	4.81	4.70	3.86	4.37	4.25	5.21	5.01
Missouri	3.63	3.48	3.56	3.51	3.51	3.59	3.22
Montana	3.31	3.46	2.97	3.02	3.18	3.57	3.57
Nebraska	4.49	4.35	3.90	4.75	4.36	5.14	5.05
Nevada	4.99	5.05	4.24	5.16	4.19	4.15	4.29
New Hampshire	3.28	3.07	3.00	3.40	3.63	2.87	2.59
New Jersey	4.46	4.79	4.30	3.78	4.14	4.17	3.75
New Mexico	5.72	5.20	5.68	6.13	5.28	5.96	4.93
New York	4.55	4.57	4.40	4.46	4.50	4.19	4.14
North Carolina	5.05	4.66	4.84	4.96	5.36	5.03	4.91
North Dakota	4.05	3.90	4.89	3.92	5.16	5.15	5.53
Ohio	5.33	4.98	4.49	4.63	4.88	4.63	4.75
Oklahoma	4.37	3.68	3.78	4.20	4.36	4.36	4.00
Oregon	3.54	3.70	3.52	3.20	2.84	3.19	2.89
Pennsylvania	4.40	4.63	4.35	4.24	4.35	4.32	4.34
Rhode Island	5.26	5.01	5.35	4.72	5.11	4.66	4.62
South Carolina	3.50	3.58	3.92	3.34	3.84	4.11	3.63
South Dakota	2.44	2.55	2.82	2.70	3.48	3.66	3.79
Tennessee	4.58	4.74	4.62	4.59	5.09	5.02	4.89
Texas	5.52	5.25	5.55	5.32	5.50	5.34	4.79
Utah	3.36	3.73	3.45	3.53	3.32	3.39	2.94
Vermont	1.75	1.20	1.55	1.78	1.86	1.91	1.89
Virginia	3.91	4.22	3.87	3.77	3.71	3.44	3.29
Washington	3.93	4.08	3.75	4.02	3.98	3.82	3.64

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	2.73	2.42	2.12	1.82	1.79	1.93	2.23
Wisconsin	4.51	4.49	4.53	4.20	4.59	4.50	4.60
Wyoming	5.82	4.38	5.21	5.76	6.95	6.16	6.21
Puerto Rico	2.87	3.22	2.73	3.75	3.69	3.76	4.64

Note(s):
 The national doctorate S&E degrees total for the United States includes U.S. territories. All S&E degrees include bachelor's, master's, and doctoral degrees. The national S&E degrees total for the United States includes U.S. territories.

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State Indicators

S&E doctoral degrees

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	22,000	22,834	23,563	24,699	25,348	25,921	26,282	26,457	26,783	25,332
Alabama	160	183	209	210	226	199	281	283	308	264
Alaska	5	9	9	8	23	16	23	15	56	19
Arizona	327	413	378	387	443	426	429	457	454	424
Arkansas	72	57	54	58	71	62	65	68	74	57
California	2,991	2,915	2,995	3,446	3,436	3,707	3,340	3,352	3,598	3,533
Colorado	480	506	484	552	544	558	584	603	550	600
Connecticut	362	358	366	384	412	417	387	396	433	360
Delaware	88	93	115	118	86	89	122	117	101	113
District of Columbia	296	255	261	322	291	279	299	318	297	281
Florida	580	588	599	641	687	670	739	739	825	850
Georgia	343	428	447	417	407	485	554	500	572	550
Hawaii	99	108	115	124	117	120	128	129	127	117
Idaho	61	48	53	45	63	60	55	58	54	42
Illinois	1,350	1,427	1,433	1,426	1,421	1,530	1,541	1,566	1,669	1,446
Indiana	598	575	600	627	638	625	673	638	621	619
Iowa	333	377	369	394	385	406	416	357	377	337
Kansas	197	195	256	196	227	227	252	246	256	226
Kentucky	120	125	147	144	175	175	170	194	182	163
Louisiana	240	239	246	224	240	282	271	307	311	302
Maine	25	29	36	29	38	28	36	42	37	28
Maryland	488	496	527	562	542	533	586	620	596	591
Massachusetts	1,355	1,396	1,469	1,482	1,450	1,439	1,533	1,490	1,657	1,427
Michigan	796	877	959	978	913	949	1,021	951	1,005	900

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	387	444	409	398	467	455	517	466	480	426
Mississippi	110	124	118	118	121	157	139	139	144	143
Missouri	380	375	469	390	438	427	454	430	466	372
Montana	46	42	43	46	37	46	49	57	70	56
Nebraska	121	93	117	121	125	119	145	148	160	146
Nevada	25	31	31	24	31	54	46	58	69	56
New Hampshire	69	68	64	99	99	88	84	95	96	100
New Jersey	523	530	644	624	664	681	680	691	605	634
New Mexico	146	135	136	152	149	166	188	161	186	158
New York	2,301	2,371	2,399	2,501	2,549	2,493	2,505	2,445	2,367	2,271
North Carolina	552	533	563	612	602	655	655	678	660	716
North Dakota	54	40	46	50	48	51	53	53	49	45
Ohio	909	927	883	1,042	1,127	1,140	1,073	1,195	1,109	901
Oklahoma	206	180	191	192	195	195	186	210	202	217
Oregon	234	243	270	275	311	294	290	299	271	289
Pennsylvania	1,020	1,115	1,160	1,230	1,209	1,319	1,230	1,279	1,268	1,167
Rhode Island	144	201	171	194	187	210	234	166	174	165
South Carolina	169	183	190	205	206	185	233	206	196	234
South Dakota	21	26	20	18	26	14	30	36	22	24
Tennessee	271	316	339	315	320	316	328	372	325	328
Texas	1,186	1,250	1,318	1,379	1,501	1,475	1,592	1,575	1,592	1,547
Utah	202	211	233	233	208	220	261	253	240	234
Vermont	47	41	30	47	50	44	48	35	48	34
Virginia	510	535	605	622	638	686	639	697	601	630
Washington	393	441	359	389	431	422	416	426	393	378
West Virginia	49	50	57	34	50	65	50	55	83	56



State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	477	530	487	517	618	553	524	631	590	552
Wyoming	45	49	36	38	46	50	52	61	55	48
Puerto Rico	37	53	48	60	60	59	76	94	102	156

Science and Engineering Indicators 2018

State Indicators

S&E doctoral degrees

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	25,423	25,453	24,254	25,425	26,573	28,561	30,452	32,588	33,359	33,284
Alabama	281	268	282	293	259	322	309	324	356	384
Alaska	13	22	15	31	14	20	18	21	21	29
Arizona	431	392	392	417	491	466	514	563	526	598
Arkansas	67	61	68	74	91	111	106	91	120	127
California	3,553	3,664	3,518	3,768	3,840	3,939	4,365	4,695	4,800	4,724
Colorado	527	511	482	555	492	708	546	612	589	659
Connecticut	413	370	368	402	407	433	453	506	479	435
Delaware	112	108	89	84	134	116	135	135	128	151
District of Columbia	355	306	328	345	323	364	363	359	352	385
Florida	822	771	835	878	1,006	1,074	1,174	1,363	1,366	1,316
Georgia	525	557	591	583	606	691	770	875	907	964
Hawaii	108	102	69	90	84	98	88	92	132	121
Idaho	56	50	49	69	42	49	72	80	78	73
Illinois	1,539	1,738	1,372	1,468	1,416	1,555	1,721	1,795	1,798	1,539
Indiana	646	621	554	622	592	659	700	782	755	850
Iowa	319	322	319	274	305	321	373	402	422	428
Kansas	223	236	249	244	228	230	247	243	240	260
Kentucky	188	174	164	191	204	241	254	279	281	256
Louisiana	345	317	307	263	304	312	289	349	333	330
Maine	39	30	30	33	27	24	27	36	43	42
Maryland	567	604	571	578	602	688	791	783	840	783
Massachusetts	1,433	1,436	1,409	1,345	1,441	1,562	1,689	1,868	1,891	1,877
Michigan	941	868	915	943	962	1,019	1,060	1,173	1,099	1,200

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	415	449	438	474	490	609	705	770	739	645
Mississippi	144	115	114	130	140	140	142	160	156	161
Missouri	415	412	409	476	442	491	512	513	521	495
Montana	41	39	57	52	57	65	66	75	80	83
Nebraska	142	131	117	164	134	154	136	162	159	182
Nevada	78	50	61	75	73	92	93	79	98	142
New Hampshire	73	78	82	101	92	118	100	117	119	121
New Jersey	650	652	570	607	690	641	708	740	757	808
New Mexico	136	134	165	136	167	159	181	158	143	184
New York	2,237	2,157	1,972	2,099	2,325	2,440	2,495	2,509	2,713	2,605
North Carolina	652	665	636	681	763	790	805	895	925	1,010
North Dakota	41	43	45	64	39	42	45	72	74	68
Ohio	992	1,056	951	958	967	1,054	1,167	1,129	1,285	1,178
Oklahoma	205	198	166	172	200	205	195	249	208	251
Oregon	254	298	228	274	286	272	320	342	335	336
Pennsylvania	1,135	1,143	1,150	1,248	1,341	1,432	1,551	1,567	1,594	1,633
Rhode Island	153	168	146	147	152	167	223	190	190	193
South Carolina	198	205	224	191	200	234	231	272	288	294
South Dakota	26	31	27	32	38	38	38	46	38	49
Tennessee	356	351	298	320	347	354	395	428	449	496
Texas	1,495	1,500	1,402	1,426	1,595	1,727	1,845	2,065	2,166	2,116
Utah	238	197	203	211	230	251	225	272	288	303
Vermont	40	52	49	27	35	38	49	45	50	43
Virginia	660	628	606	605	634	717	740	753	802	858
Washington	365	422	417	409	468	490	525	574	546	540
West Virginia	80	56	68	95	100	97	102	104	121	93



State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	520	494	485	498	492	508	559	618	671	650
Wyoming	50	33	32	42	29	33	37	47	53	43
Puerto Rico	129	168	160	161	177	201	198	211	235	173

Science and Engineering Indicators 2018

State Indicators

S&E doctoral degrees

State	2010	2011	2012	2013	2014	2015	2016
United States	32,649	34,205	35,360	36,928	38,939	39,178	39,053
Alabama	357	367	420	390	419	442	444
Alaska	38	29	43	39	37	33	44
Arizona	567	626	680	700	754	812	819
Arkansas	126	127	129	164	140	158	156
California	4,589	4,805	4,893	5,241	5,227	5,095	4,985
Colorado	611	647	682	744	823	829	804
Connecticut	470	457	491	509	528	533	518
Delaware	145	170	165	150	161	183	238
District of Columbia	263	321	354	335	377	356	381
Florida	1,369	1,445	1,444	1,475	1,572	1,574	1,521
Georgia	867	901	906	917	1,069	1,024	1,026
Hawaii	122	136	117	143	119	147	128
Idaho	63	68	67	92	104	85	84
Illinois	1,518	1,554	1,633	1,734	1,681	1,755	1,678
Indiana	818	848	847	946	1,022	1,072	1,004
Iowa	426	442	482	489	481	450	456
Kansas	259	302	293	334	317	376	322
Kentucky	263	264	323	277	326	291	304
Louisiana	377	309	413	449	395	394	432
Maine	36	44	47	40	56	59	61
Maryland	817	822	849	930	916	980	915
Massachusetts	1,788	1,909	1,953	1,994	2,113	2,061	2,202
Michigan	1,153	1,132	1,260	1,253	1,390	1,343	1,302

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	713	847	837	986	1,156	1,079	1,155
Mississippi	200	201	178	202	211	265	253
Missouri	495	496	536	540	548	612	582
Montana	70	80	67	74	85	100	96
Nebraska	191	195	187	236	227	264	275
Nevada	126	138	120	151	132	141	147
New Hampshire	125	121	119	142	158	148	145
New Jersey	775	835	808	719	824	866	825
New Mexico	168	165	192	214	201	222	197
New York	2,576	2,730	2,709	2,857	2,961	2,886	2,962
North Carolina	987	974	1,080	1,150	1,295	1,231	1,259
North Dakota	69	68	93	78	106	117	121
Ohio	1,183	1,172	1,130	1,142	1,272	1,269	1,361
Oklahoma	271	239	266	295	310	319	313
Oregon	295	324	342	329	314	358	322
Pennsylvania	1,571	1,724	1,675	1,731	1,856	1,858	1,876
Rhode Island	209	207	233	213	245	229	241
South Carolina	264	294	330	305	365	406	361
South Dakota	51	55	63	62	80	87	95
Tennessee	448	486	516	521	593	592	596
Texas	2,192	2,228	2,464	2,500	2,684	2,800	2,698
Utah	280	348	338	359	354	384	342
Vermont	58	40	55	70	63	66	65
Virginia	832	971	975	1,005	1,038	994	974
Washington	540	578	566	658	657	655	645
West Virginia	115	122	118	111	116	127	153



State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	593	618	643	625	714	713	739
Wyoming	50	43	54	60	76	62	70
Puerto Rico	160	181	175	248	271	276	361

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	428,882	438,877	459,935	477,159	490,020	498,378	505,647	508,287	511,365	510,087
Alabama	5,468	5,880	6,450	6,676	6,826	6,692	6,971	7,199	6,884	6,804
Alaska	448	451	468	476	600	613	670	679	714	575
Arizona	5,022	5,386	5,565	5,984	6,115	6,818	6,655	6,743	7,298	6,955
Arkansas	1,941	2,120	2,244	2,341	2,478	2,554	2,774	2,917	2,827	2,857
California	51,407	49,017	52,194	56,919	57,453	57,575	58,220	56,486	58,710	59,408
Colorado	8,619	8,933	9,444	10,348	10,875	11,189	10,921	11,310	11,522	11,456
Connecticut	6,419	6,552	6,813	7,000	7,096	7,150	6,976	6,973	7,012	6,817
Delaware	1,470	1,840	1,856	1,817	1,777	1,856	1,894	1,929	1,806	1,908
District of Columbia	5,279	5,349	5,703	5,953	5,948	6,311	6,675	6,566	6,575	6,173
Florida	12,092	13,234	13,699	14,658	15,637	16,321	17,277	17,252	17,424	17,558
Georgia	7,858	8,059	8,521	9,126	9,596	9,862	10,572	10,415	11,470	11,433
Hawaii	1,559	1,585	1,650	1,710	1,711	1,876	1,942	2,046	2,034	2,050
Idaho	1,144	1,149	1,233	1,383	1,549	1,652	1,722	1,677	1,660	1,680
Illinois	20,570	20,049	20,719	20,620	21,080	21,309	21,498	21,877	21,940	21,934
Indiana	10,524	10,850	11,708	11,799	11,551	11,493	11,882	11,590	11,479	10,950
Iowa	5,385	5,693	5,923	6,155	6,367	6,391	6,500	6,529	6,394	6,478
Kansas	4,417	4,464	4,879	4,914	5,237	5,299	5,332	5,295	5,135	5,305
Kentucky	3,816	4,045	4,301	4,420	4,759	4,917	4,933	5,020	5,034	5,217
Louisiana	4,972	4,969	5,433	5,754	6,160	6,618	6,781	6,721	6,940	6,905
Maine	1,781	1,873	2,041	2,237	2,207	2,152	2,168	2,172	2,211	2,271
Maryland	9,609	10,129	10,598	10,683	10,635	11,001	11,479	11,867	11,770	12,081
Massachusetts	21,353	21,992	22,222	20,745	20,960	21,129	22,230	21,879	22,002	22,135
Michigan	16,889	17,516	17,941	18,024	18,537	18,447	18,796	18,561	18,615	17,936

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	7,878	8,559	8,560	8,755	9,241	9,287	9,287	9,265	9,369	9,393
Mississippi	2,589	2,816	2,949	3,400	3,425	3,599	3,473	3,447	3,376	3,432
Missouri	8,013	8,505	9,234	8,949	9,211	10,251	10,306	10,607	10,953	10,720
Montana	1,433	1,373	1,510	1,541	1,646	1,720	1,891	2,128	2,073	2,109
Nebraska	2,378	2,498	2,616	2,777	2,941	2,895	3,119	3,084	3,213	2,911
Nevada	672	752	779	910	1,009	1,134	1,178	1,218	1,372	1,354
New Hampshire	2,603	2,616	2,714	2,890	2,917	2,939	2,893	2,953	3,079	3,129
New Jersey	11,438	11,503	11,467	11,988	12,340	12,214	12,560	12,792	13,023	13,454
New Mexico	2,306	2,392	2,420	2,544	2,706	2,761	2,864	2,764	2,669	2,610
New York	40,748	41,590	42,394	43,020	43,234	43,600	43,392	44,186	42,628	42,450
North Carolina	10,991	11,348	12,363	12,952	14,017	14,072	14,516	14,878	14,576	14,471
North Dakota	1,374	1,344	1,423	1,354	1,398	1,440	1,462	1,556	1,543	1,575
Ohio	16,891	17,391	18,061	19,026	19,189	19,331	19,333	19,687	19,430	18,760
Oklahoma	4,412	4,461	4,631	4,938	5,384	5,306	4,982	5,625	5,747	6,587
Oregon	4,873	5,198	5,757	5,779	6,028	6,043	6,153	6,145	6,298	6,431
Pennsylvania	23,581	23,783	24,820	25,350	25,529	26,063	25,756	26,023	26,174	26,136
Rhode Island	2,744	3,125	3,069	3,065	3,039	3,185	3,243	2,914	2,933	2,981
South Carolina	4,489	4,916	5,219	5,499	5,862	5,816	5,893	5,999	5,836	5,981
South Dakota	1,407	1,484	1,572	1,677	1,801	1,930	1,990	2,012	1,962	1,877
Tennessee	6,234	6,441	6,902	7,173	7,346	7,729	7,783	8,048	8,080	8,118
Texas	21,402	22,066	24,209	25,466	26,505	27,173	27,235	27,014	27,780	27,240
Utah	4,716	4,683	4,999	5,323	5,886	5,880	6,308	6,434	6,572	6,673
Vermont	2,068	2,042	2,049	2,146	2,228	2,110	2,128	2,035	2,215	2,278
Virginia	12,033	12,992	13,776	14,834	15,102	15,434	15,374	15,366	14,786	14,831
Washington	7,806	7,835	7,993	8,639	9,064	9,278	9,523	10,014	9,847	9,425
West Virginia	1,926	2,043	2,229	2,266	2,599	2,621	2,761	2,559	2,590	2,639



State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	9,755	9,746	10,127	10,589	10,515	10,336	10,253	10,395	10,334	10,202
Wyoming	630	744	810	822	942	931	900	957	905	872
Puerto Rico	3,386	3,415	3,624	3,675	3,667	3,972	4,113	4,352	4,425	4,428

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	520,255	525,416	539,887	576,535	604,527	619,645	630,309	638,638	655,931	673,236
Alabama	7,512	7,467	7,202	7,020	7,460	8,038	8,306	8,337	8,456	8,882
Alaska	578	604	559	611	683	676	719	725	751	802
Arizona	6,726	6,623	7,579	8,845	10,600	11,098	11,476	12,245	12,818	15,100
Arkansas	2,828	2,844	3,096	3,221	3,220	3,306	3,235	3,236	3,316	3,390
California	61,698	63,167	66,136	69,428	73,439	76,324	78,968	79,514	82,114	83,195
Colorado	11,717	11,595	12,260	12,800	13,443	13,629	14,255	14,049	14,552	14,188
Connecticut	6,887	6,929	7,008	7,786	7,998	8,154	8,341	8,586	9,011	9,615
Delaware	1,931	1,861	2,003	2,039	2,049	2,158	2,215	2,154	2,221	2,239
District of Columbia	6,368	6,870	7,087	7,244	7,528	7,490	8,294	7,889	8,313	8,469
Florida	18,145	18,746	19,932	21,460	24,096	24,710	25,681	26,653	27,939	28,899
Georgia	11,605	11,924	12,610	13,907	15,825	14,569	14,423	14,759	15,193	15,566
Hawaii	2,203	2,131	2,032	2,032	2,330	2,349	2,428	2,385	2,544	2,576
Idaho	1,823	1,756	1,811	2,186	2,011	2,384	2,661	2,667	2,619	2,797
Illinois	22,737	23,321	23,307	25,464	25,908	27,623	28,288	28,592	29,311	29,119
Indiana	11,404	11,188	11,682	12,270	12,764	13,317	13,241	13,550	13,457	13,251
Iowa	6,611	6,389	6,614	7,087	7,187	7,378	7,413	7,609	8,220	9,079
Kansas	5,457	5,660	5,424	5,871	6,075	6,140	5,938	6,012	5,998	6,006
Kentucky	5,091	5,015	5,344	5,282	5,783	6,088	6,317	6,486	6,496	6,481
Louisiana	6,998	6,908	7,060	7,355	7,476	7,805	7,243	7,661	7,316	7,173
Maine	2,302	2,236	2,300	2,557	2,442	2,550	2,625	2,662	2,839	2,749
Maryland	12,235	12,710	13,135	14,066	15,013	15,675	15,870	15,860	16,153	16,514
Massachusetts	22,662	22,843	23,200	24,131	24,837	25,251	25,439	25,637	26,434	26,712
Michigan	18,430	18,618	19,156	21,091	21,750	21,280	21,074	21,413	22,191	22,764

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	8,957	9,181	9,721	10,191	10,960	11,901	12,387	12,533	13,374	13,886
Mississippi	3,397	3,472	3,558	3,370	3,619	3,577	3,618	3,817	3,824	3,937
Missouri	11,014	11,361	11,995	12,672	12,954	13,013	12,736	12,922	13,173	13,482
Montana	2,102	2,076	2,110	2,312	2,289	2,254	2,189	2,291	2,215	2,298
Nebraska	3,304	3,261	3,090	3,308	3,474	3,847	3,892	3,852	4,046	4,193
Nevada	1,365	1,277	1,335	1,520	1,766	1,836	2,254	2,063	2,437	2,434
New Hampshire	3,206	2,940	2,883	3,084	3,343	3,316	3,353	3,321	3,428	3,517
New Jersey	13,940	13,842	14,316	15,281	15,890	15,667	15,603	15,630	15,947	16,535
New Mexico	2,622	2,530	2,447	2,662	2,816	2,878	2,956	2,935	2,864	3,011
New York	42,919	44,652	44,651	49,374	50,324	51,491	51,299	51,264	52,706	54,426
North Carolina	14,651	14,543	15,132	15,622	16,754	16,665	16,541	17,495	18,160	18,671
North Dakota	1,519	1,397	1,487	1,616	1,547	1,539	1,522	1,644	1,632	1,610
Ohio	18,501	18,649	18,898	19,834	20,357	20,707	21,009	21,352	21,213	21,587
Oklahoma	5,982	5,914	5,861	5,767	6,482	6,342	6,243	6,238	6,097	6,384
Oregon	6,608	6,473	6,604	7,044	7,777	7,805	8,004	8,093	8,028	7,975
Pennsylvania	26,572	26,521	27,466	29,672	30,786	31,483	32,359	32,511	33,594	34,539
Rhode Island	3,012	2,872	3,067	3,446	3,666	3,646	3,883	3,597	3,796	3,830
South Carolina	5,953	6,052	6,074	6,403	6,360	6,744	6,883	6,902	7,074	7,279
South Dakota	1,871	1,819	1,791	1,855	2,023	2,026	2,056	2,041	2,053	2,000
Tennessee	8,029	7,787	8,013	8,497	8,736	8,749	8,752	8,878	9,144	9,601
Texas	27,962	28,242	28,592	31,559	33,224	34,612	35,293	35,976	36,962	38,196
Utah	6,277	6,101	6,739	7,322	7,808	8,026	7,948	8,259	8,106	8,219
Vermont	2,230	2,153	2,143	2,063	2,250	2,508	2,576	2,762	2,933	3,144
Virginia	15,662	15,783	15,696	16,401	16,788	17,639	18,390	18,469	19,472	20,682
Washington	9,627	9,910	10,362	11,189	11,567	12,365	12,454	12,931	12,850	13,130
West Virginia	2,750	2,699	2,732	2,863	2,810	2,945	3,056	3,250	3,748	3,772



State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	10,260	10,548	10,572	11,471	12,108	12,187	12,328	12,814	12,729	12,877
Wyoming	910	831	825	819	813	757	857	812	858	839
Puerto Rico	4,955	5,032	5,032	5,428	5,175	4,994	5,264	5,155	5,063	5,463

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

State	2010	2011	2012	2013	2014	2015	2016
United States	697,949	739,223	786,061	818,800	846,082	870,190	903,376
Alabama	8,947	9,903	10,024	10,295	10,275	10,474	10,922
Alaska	867	921	870	942	983	950	1,000
Arizona	17,244	19,231	24,007	25,447	24,127	21,779	21,814
Arkansas	3,722	4,121	4,503	4,611	4,945	5,063	5,495
California	85,680	90,506	94,962	99,175	104,033	105,995	111,631
Colorado	14,172	15,167	16,781	17,444	18,533	18,462	18,815
Connecticut	9,628	9,790	10,424	10,620	10,819	11,357	12,332
Delaware	2,195	2,511	2,523	2,722	2,879	3,233	3,375
District of Columbia	8,154	8,288	8,739	9,346	9,419	9,280	9,170
Florida	30,552	32,192	34,902	36,717	38,197	40,047	41,698
Georgia	16,024	17,309	18,337	19,700	20,814	21,341	22,494
Hawaii	2,434	2,551	2,635	2,866	2,783	3,031	2,955
Idaho	2,923	2,942	3,247	3,673	3,776	3,850	3,973
Illinois	29,586	31,086	32,249	32,814	32,912	33,566	35,568
Indiana	14,147	15,768	16,782	17,272	17,859	18,972	19,104
Iowa	11,655	13,296	14,575	14,440	13,681	13,481	12,929
Kansas	5,954	6,174	6,715	6,653	6,799	6,992	6,983
Kentucky	6,517	6,883	7,583	7,899	8,002	8,128	8,377
Louisiana	7,102	7,543	7,891	8,254	8,225	8,427	8,502
Maine	2,917	3,103	3,204	3,008	3,154	3,251	3,385
Maryland	17,072	18,039	19,380	20,535	20,933	22,053	22,528
Massachusetts	27,808	28,989	30,758	32,139	33,695	34,827	36,782
Michigan	23,147	23,425	24,687	25,238	26,334	26,675	27,811

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	14,683	15,851	16,814	17,824	18,056	18,082	18,596
Mississippi	4,154	4,278	4,607	4,622	4,968	5,085	5,049
Missouri	13,628	14,261	15,039	15,380	15,623	17,055	18,099
Montana	2,116	2,313	2,256	2,452	2,669	2,803	2,689
Nebraska	4,253	4,478	4,793	4,972	5,206	5,132	5,443
Nevada	2,525	2,732	2,833	2,927	3,147	3,399	3,426
New Hampshire	3,813	3,940	3,972	4,177	4,353	5,159	5,597
New Jersey	17,393	17,439	18,812	19,004	19,911	20,746	22,020
New Mexico	2,939	3,173	3,381	3,490	3,808	3,726	3,993
New York	56,594	59,713	61,608	64,073	65,824	68,958	71,509
North Carolina	19,539	20,896	22,308	23,202	24,168	24,455	25,627
North Dakota	1,705	1,743	1,902	1,992	2,054	2,271	2,188
Ohio	22,194	23,534	25,176	24,647	26,043	27,392	28,655
Oklahoma	6,203	6,503	7,031	7,023	7,118	7,319	7,832
Oregon	8,341	8,767	9,705	10,292	11,038	11,214	11,129
Pennsylvania	35,673	37,254	38,463	40,786	42,627	42,960	43,242
Rhode Island	3,971	4,133	4,359	4,516	4,795	4,912	5,218
South Carolina	7,542	8,223	8,426	9,120	9,511	9,873	9,950
South Dakota	2,093	2,159	2,231	2,297	2,300	2,376	2,504
Tennessee	9,774	10,243	11,167	11,340	11,641	11,787	12,193
Texas	39,702	42,413	44,368	46,965	48,773	52,442	56,326
Utah	8,341	9,319	9,790	10,168	10,676	11,333	11,634
Vermont	3,312	3,343	3,543	3,923	3,387	3,452	3,445
Virginia	21,291	23,015	25,192	26,624	28,013	28,873	29,590
Washington	13,751	14,169	15,105	16,349	16,512	17,164	17,730
West Virginia	4,218	5,050	5,573	6,087	6,486	6,565	6,854



State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	13,144	13,760	14,179	14,876	15,545	15,845	16,066
Wyoming	859	981	1,037	1,042	1,093	1,006	1,128
Puerto Rico	5,573	5,625	6,420	6,614	7,347	7,334	7,773

Science and Engineering Indicators 2018