

State Indicators

S-41 R&D as a Percentage of Gross Domestic Product

Description

This indicator represents the extent to which R&D plays a role in a state's economy. A high value indicates that a state has a high intensity of R&D activity or a major federal R&D facility, which may support future growth in knowledge-based industries. New Mexico commonly has the greatest value for this indicator by a significant margin due to the high concentration of R&D activities at two national laboratories in the state, combined with the state's relatively small gross domestic product.

R&D performance refers to R&D activities conducted in the state by federal and state agencies, businesses, universities, and nonprofit organizations. R&D-performing organizations either fund their own R&D activities or receive funding from other organizations. For example, a considerable portion of academic R&D performance is funded by the federal government.

The statistics on U.S. R&D discussed in this section reflect the periodic National Patterns of R&D Resources reports and data series from the National Center for Science and Engineering Statistics within the National Science Foundation (NSF), which provide a comprehensive account of total U.S. R&D performance. The National Patterns data, in turn, derive from six major NSF surveys of the organizations that perform the bulk of U.S. R&D:

- * Business R&D and Innovation Survey
- * Higher Education Research and Development Survey
- * Survey of Federal Funds for Research and Development
- * Survey of R&D Expenditures at Federally Funded R&D Centers
- * Survey of State Government Research and Development
- * Survey of Research and Development Funding and Performance by Nonprofit Organizations

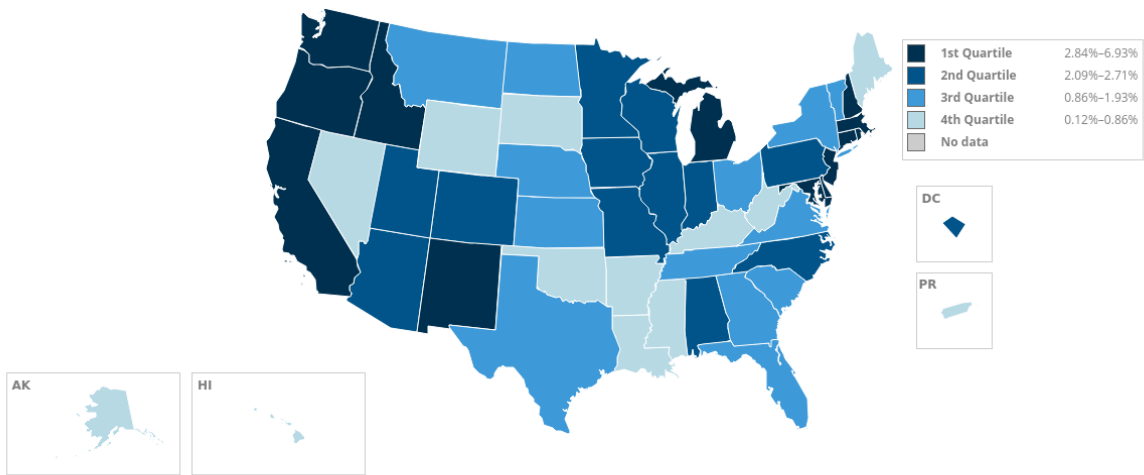
The National Patterns analysis integrates R&D spending and funding data from these separate surveys into U.S. R&D performance totals, which are then reported on a calendar year basis and for the main performing sectors and funding sources.

Data sources: National Science Foundation, National Center for Science and Engineering Statistics, National Patterns of R&D Resources; U.S. Bureau of Economic Analysis, Gross Domestic Product data; Government of Puerto Rico, Office of the Governor, Gross Domestic Product data.

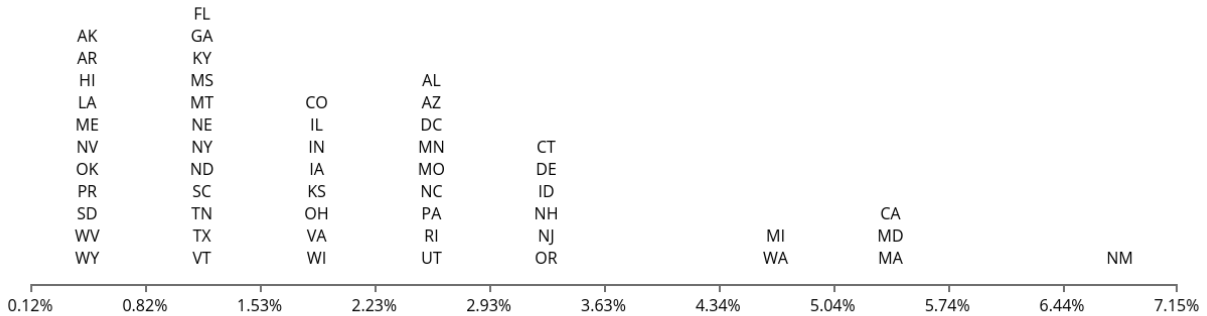
State Indicators

S-41 R&D as a Percentage of Gross Domestic Product

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

R&D as a Percentage of Gross Domestic Product

(Percent)

State	1991	1993	1995	1997	1998	1999	2000	2002	2003	2004
United States	2.74	2.55	2.50	2.46	2.48	2.52	2.60	2.52	2.53	2.46
Alabama	1.99	2.33	1.75	1.57	1.76	1.53	1.45	1.82	1.90	1.88
Alaska	0.66	0.55	0.64	0.53	NA	0.61	0.73	1.04	1.01	0.77
Arizona	1.91	1.80	1.78	1.82	1.62	3.28	1.89	2.28	1.86	1.73
Arkansas	0.48	0.63	0.60	0.45	0.45	0.57	0.66	0.58	0.65	0.61
California	3.59	4.08	3.95	3.89	3.83	3.85	4.03	3.58	3.91	3.65
Colorado	NA	2.99	2.40	2.34	3.04	2.56	2.34	2.21	2.55	2.69
Connecticut	1.89	2.61	3.50	2.49	2.45	2.91	2.95	3.84	3.61	3.97
Delaware	NA	5.31	4.14	3.30	6.95	3.33	3.53	2.88	2.96	2.30
District of Columbia	4.19	5.61	6.64	5.28	4.75	4.27	3.76	3.86	3.63	2.96
Florida	1.38	1.16	1.51	1.19	1.11	0.93	0.95	1.00	0.89	0.85
Georgia	1.00	0.92	1.04	0.94	0.94	1.02	0.91	1.20	1.15	1.00
Hawaii	0.42	1.03	0.45	0.73	0.64	0.69	0.70	1.00	0.90	0.91
Idaho	NA	2.07	3.29	4.31	3.64	3.83	3.77	3.54	3.00	2.30
Illinois	2.22	2.12	2.05	1.93	2.02	2.12	2.62	1.98	2.09	2.02
Indiana	2.05	1.94	2.10	1.85	1.67	1.43	1.60	2.04	2.01	2.17
Iowa	1.34	1.42	1.90	1.19	1.25	1.14	1.09	1.36	1.38	1.39
Kansas	NA	0.79	1.17	1.81	1.93	1.90	1.65	2.05	2.14	2.22
Kentucky	0.44	0.53	0.65	0.50	0.59	0.84	0.76	0.92	0.80	0.75
Louisiana	0.47	0.49	0.37	0.48	0.45	0.50	0.47	0.61	0.62	0.57
Maine	NA	0.45	1.23	0.49	0.49	0.65	0.87	1.07	0.89	0.86
Maryland	4.97	6.00	4.94	4.64	4.72	4.49	4.49	4.14	4.44	5.81
Massachusetts	5.33	5.47	5.08	4.68	5.37	4.60	4.49	4.71	4.96	4.83

State Indicators

State	1991	1993	1995	1997	1998	1999	2000	2002	2003	2004
Michigan	4.48	4.76	5.17	4.67	4.37	5.57	5.37	4.16	4.52	4.39
Minnesota	2.10	2.48	2.28	2.31	2.30	2.24	2.26	2.59	2.72	2.60
Mississippi	0.74	0.68	0.57	0.63	0.60	0.75	0.78	1.00	2.07	0.84
Missouri	NA	1.50	1.78	1.12	1.10	1.13	1.38	1.26	1.34	1.42
Montana	NA	0.56	0.68	1.03	0.93	0.81	0.78	0.99	0.96	1.06
Nebraska	0.59	0.75	0.74	0.55	0.61	0.78	0.78	1.08	1.07	1.05
Nevada	0.80	0.55	0.90	0.85	0.87	0.64	0.49	0.62	0.64	0.60
New Hampshire	NA	1.60	1.88	2.09	3.30	3.00	1.71	2.95	3.24	3.08
New Jersey	3.96	3.82	3.46	3.92	3.55	3.13	3.63	3.35	3.16	2.95
New Mexico	8.55	7.46	7.82	5.77	5.98	6.18	5.59	8.08	7.91	7.33
New York	2.07	2.04	1.88	1.71	1.84	1.78	1.62	1.51	1.44	1.37
North Carolina	1.34	1.63	1.65	2.00	1.85	1.99	1.83	1.72	2.05	1.98
North Dakota	NA	0.71	0.66	0.74	0.71	0.99	0.81	1.46	1.73	2.41
Ohio	2.55	2.46	1.79	2.08	1.93	2.15	1.96	2.02	2.02	1.75
Oklahoma	1.01	0.81	0.75	0.81	0.63	0.79	0.73	0.80	0.92	0.72
Oregon	1.01	1.12	1.34	1.51	1.82	1.84	1.80	2.39	2.81	2.69
Pennsylvania	2.99	2.94	2.21	2.30	2.35	2.74	2.41	2.23	2.18	2.24
Rhode Island	2.23	2.05	3.51	3.59	5.46	5.11	4.35	4.30	4.36	4.25
South Carolina	0.87	0.94	1.14	1.07	0.95	0.89	0.98	1.34	1.24	1.18
South Dakota	0.23	0.37	0.30	0.37	0.30	0.29	0.37	0.42	0.54	0.50
Tennessee	1.13	1.01	1.02	1.01	1.50	1.30	1.13	1.31	1.47	1.46
Texas	1.69	1.57	1.65	1.55	1.67	1.82	1.56	1.81	1.78	1.57
Utah	1.98	1.94	2.45	2.39	2.40	2.23	1.94	2.07	1.90	1.87
Vermont	NA	2.63	2.22	2.04	1.09	2.27	2.54	1.97	2.33	2.41
Virginia	1.84	1.75	2.09	1.90	2.12	2.04	1.90	2.01	2.45	2.21
Washington	3.09	3.80	3.38	3.89	4.03	3.62	4.42	4.24	4.44	4.05

State Indicators

State	1991	1993	1995	1997	1998	1999	2000	2002	2003	2004
West Virginia	NA	0.88	1.31	1.10	1.05	1.05	1.07	1.19	1.15	1.06
Wisconsin	1.50	1.54	1.65	1.47	1.54	1.49	1.49	1.84	1.79	1.71
Wyoming	0.32	0.46	0.60	0.59	0.44	0.42	0.35	0.42	0.54	0.42
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA = not available

Note(s):

R&D includes R&D performed by federal agencies, businesses, universities, other nonprofit organizations, federally funded research and development centers, and state agencies. U.S. total R&D reported here includes U.S. territories, as well as R&D for which the location could not be determined. The national GDP total for the United States includes Puerto Rico for all years in which data are available.

Source(s):

National Center for Science and Engineering Statistics, National Science Foundation, National Patterns of R&D Resources (various years), data as of March 2019; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years), data as of May 2019; Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2019.

Recommended Citation: National Science Board. 2018. "R&D as a Percentage of Gross Domestic Product." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). <https://www.nsf.gov/statistics/state-indicators/indicator/rd-performance-to-state-gdp>

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Science and Engineering Indicators 2018

State Indicators

R&D as a Percentage of Gross Domestic Product

(Percent)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	2.48	2.52	2.60	2.73	2.77	2.69	2.72	2.66	2.69	2.70
Alabama	1.80	2.01	1.94	2.82	2.34	2.14	2.73	2.11	2.05	2.38
Alaska	0.67	0.65	0.64	0.49	0.61	0.67	0.68	0.51	0.56	0.52
Arizona	1.81	1.92	1.91	2.70	2.67	2.21	2.50	2.43	2.44	2.44
Arkansas	0.59	0.61	0.65	0.75	1.02	0.59	0.64	0.58	0.53	0.54
California	3.64	3.81	3.97	4.09	4.15	4.10	4.46	4.55	4.63	4.79
Colorado	2.64	2.66	2.78	2.27	2.45	2.42	2.59	2.36	2.34	2.21
Connecticut	4.30	4.06	4.31	4.70	4.84	3.14	3.69	3.56	3.70	4.10
Delaware	3.13	2.88	2.86	2.91	3.95	4.05	3.80	4.22	4.16	4.07
District of Columbia	3.92	4.25	4.11	5.98	4.16	3.36	3.11	2.78	3.65	3.28
Florida	0.89	0.85	0.93	0.87	0.98	1.08	1.21	1.08	1.11	1.07
Georgia	1.00	1.10	1.07	1.27	1.45	1.31	1.35	1.34	1.34	1.42
Hawaii	0.87	0.83	0.91	0.99	1.02	1.01	1.06	0.92	0.87	0.82
Idaho	2.15	1.82	2.07	2.48	2.91	3.23	3.18	3.20	3.16	3.35
Illinois	2.13	2.19	2.21	1.85	1.94	2.39	2.32	2.32	2.29	2.08
Indiana	2.24	2.27	2.22	2.24	2.47	2.26	2.62	2.53	2.58	2.26
Iowa	1.37	1.35	1.37	1.56	1.91	1.96	2.14	1.66	1.79	1.75
Kansas	2.28	2.17	1.39	1.59	1.70	1.57	1.54	1.87	1.75	1.69
Kentucky	0.80	0.89	0.91	0.93	1.00	0.91	1.12	0.97	1.02	0.92
Louisiana	0.49	0.47	0.52	0.55	0.57	0.53	0.67	0.48	0.47	0.47
Maine	1.14	0.94	0.99	1.03	1.50	0.95	1.03	1.01	1.03	1.07
Maryland	5.32	5.19	4.91	5.60	6.08	5.82	5.86	5.48	5.60	5.73
Massachusetts	5.14	5.70	6.46	5.17	5.18	5.04	5.17	5.43	5.31	5.90

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Michigan	4.66	4.60	4.31	4.02	3.81	3.80	4.08	4.26	4.35	4.40
Minnesota	2.94	2.86	2.91	2.53	3.05	2.72	2.61	2.51	2.56	2.58
Mississippi	0.96	0.88	0.92	0.83	0.90	0.90	0.98	1.15	1.05	1.09
Missouri	1.62	1.57	1.56	1.55	1.75	3.58	NA	3.06	3.01	2.79
Montana	1.04	0.93	2.38	1.09	1.01	1.03	1.01	0.87	0.78	1.04
Nebraska	1.08	1.07	1.08	1.16	1.19	1.02	1.12	1.08	1.03	0.98
Nevada	0.52	0.62	0.60	0.71	0.70	0.76	0.70	0.66	0.58	0.61
New Hampshire	3.15	3.57	3.53	4.10	1.95	3.37	3.78	3.46	3.46	3.35
New Jersey	3.38	3.50	4.07	4.18	4.16	3.61	3.15	3.39	2.97	2.81
New Mexico	7.15	7.48	7.03	7.05	7.09	7.41	7.01	6.74	6.56	6.29
New York	1.39	1.34	1.44	1.50	1.43	1.42	1.50	1.38	1.37	1.46
North Carolina	2.08	2.01	2.32	2.08	2.00	2.11	2.19	2.13	2.48	2.39
North Dakota	1.17	1.21	1.14	1.61	1.39	1.32	1.22	0.93	0.91	0.89
Ohio	1.77	1.98	2.05	2.05	2.10	2.02	1.97	2.02	1.99	2.02
Oklahoma	0.65	0.65	0.64	0.65	0.69	0.67	0.73	0.60	0.56	0.57
Oregon	2.73	2.65	2.68	2.91	3.03	3.21	3.23	3.46	3.61	3.84
Pennsylvania	2.36	2.46	2.41	2.24	2.33	2.18	2.21	2.06	2.22	2.16
Rhode Island	4.41	4.19	2.26	2.62	2.40	2.90	2.78	2.50	2.50	2.38
South Carolina	1.48	1.44	1.44	1.29	1.42	1.48	1.40	1.52	1.06	1.06
South Dakota	0.51	0.60	0.69	0.69	0.73	0.72	0.71	0.61	0.69	0.59
Tennessee	1.32	1.36	1.50	1.54	1.57	1.55	1.58	1.53	1.42	1.40
Texas	1.61	1.57	1.51	1.64	1.72	1.58	1.55	1.46	1.44	1.44
Utah	2.00	1.83	2.04	2.17	2.41	2.72	2.63	2.26	2.85	2.60
Vermont	2.10	2.03	2.16	2.13	2.13	1.67	1.84	2.05	1.83	1.42
Virginia	2.38	2.60	2.41	2.87	2.80	2.56	2.58	2.27	2.07	2.26
Washington	4.01	4.28	4.35	4.69	5.46	4.57	4.74	4.41	4.29	4.29

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West Virginia	1.06	0.94	1.11	1.25	1.05	0.91	0.87	0.90	0.87	0.84
Wisconsin	1.68	1.75	1.87	2.03	2.01	2.10	2.12	2.08	2.02	1.97
Wyoming	0.45	0.40	0.35	0.36	0.39	0.29	0.29	0.28	0.27	0.31
Puerto Rico	NA	NA	NA	NA	NA	NA	0.19	0.16	0.16	0.12

NA = not available

Note(s):
R&D includes R&D performed by federal agencies, businesses, universities, other nonprofit organizations, federally funded research and development centers, and state agencies. U.S. total R&D reported here includes U.S. territories, as well as R&D for which the location could not be determined. The national GDP total for the United States includes Puerto Rico for all years in which data are available.

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Science and Engineering Indicators 2018

State Indicators

R&D as a Percentage of Gross Domestic Product

(Percent)

State	2015	2016
United States	2.69	2.74
Alabama	2.09	2.48
Alaska	0.66	0.61
Arizona	2.36	2.58
Arkansas	0.53	0.58
California	4.89	5.07
Colorado	2.10	2.09
Connecticut	3.82	3.53
Delaware	4.07	3.25
District of Columbia	2.85	2.71
Florida	1.06	1.04
Georgia	1.34	1.42
Hawaii	0.74	0.64
Idaho	3.36	3.32
Illinois	2.08	2.17
Indiana	2.32	2.20
Iowa	1.91	2.10
Kansas	1.79	1.79
Kentucky	0.97	0.85
Louisiana	0.48	0.45
Maine	0.88	0.81
Maryland	5.55	5.66
Massachusetts	5.70	5.57

State Indicators

State	2015	2016
Michigan	4.20	4.45
Minnesota	2.45	2.47
Mississippi	0.89	0.86
Missouri	2.52	2.43
Montana	0.99	0.86
Nebraska	0.94	0.97
Nevada	0.39	0.52
New Hampshire	3.07	2.99
New Jersey	2.79	3.02
New Mexico	6.69	6.93
New York	1.51	1.51
North Carolina	2.35	2.59
North Dakota	0.84	1.01
Ohio	2.01	1.93
Oklahoma	0.71	0.77
Oregon	3.55	3.43
Pennsylvania	2.09	2.41
Rhode Island	2.51	2.84
South Carolina	1.11	1.07
South Dakota	0.57	0.60
Tennessee	1.35	1.36
Texas	1.51	1.50
Utah	2.79	2.63
Vermont	1.22	1.19
Virginia	2.09	1.89
Washington	4.26	4.65

State Indicators

State	2015	2016
West Virginia	0.78	0.64
Wisconsin	2.01	2.09
Wyoming	0.67	0.81
Puerto Rico	0.13	0.12

NA = not available

Note(s):
R&D includes R&D performed by federal agencies, businesses, universities, other nonprofit organizations, federally funded research and development centers, and state agencies. U.S. total R&D reported here includes U.S. territories, as well as R&D for which the location could not be determined. The national GDP total for the United States includes Puerto Rico for all years in which data are available.

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Science and Engineering Indicators 2018

State Indicators

R&D performed

State	1991	1993	1995	1997	1998	1999	2000	2002	2003	2004
United States	160,876	165,730	183,625	211,894	225,759	244,451	267,950	277,911	291,365	302,731
Alabama	1,511	1,968	1,681	1,637	1,926	1,761	1,730	2,323	2,543	2,760
Alaska	146	129	163	136	NA	152	196	308	321	271
Arizona	1,399	1,607	1,957	2,410	2,318	5,091	3,107	4,096	3,578	3,544
Arkansas	198	301	330	272	283	378	454	427	509	514
California	28,346	33,721	36,036	41,670	43,919	47,965	55,093	51,388	59,664	59,607
Colorado	NA	2,864	2,701	3,205	4,565	4,209	4,230	4,218	5,012	5,497
Connecticut	1,917	2,809	4,311	3,454	3,559	4,436	4,888	6,774	6,548	7,881
Delaware	NA	1,249	1,149	1,089	2,556	1,343	1,532	1,319	1,414	1,182
District of Columbia	1,737	2,543	3,128	2,768	2,606	2,510	2,296	2,706	2,686	2,383
Florida	3,700	3,525	5,223	4,784	4,773	4,265	4,663	5,498	5,172	5,409
Georgia	1,479	1,577	2,112	2,272	2,492	2,960	2,796	3,935	3,923	3,655
Hawaii	145	380	169	275	242	270	291	456	438	490
Idaho	NA	478	914	1,270	1,127	1,309	1,434	1,370	1,209	1,006
Illinois	6,413	6,777	7,483	8,034	8,830	9,719	12,767	10,190	11,045	11,300
Indiana	2,347	2,560	3,162	3,149	3,089	2,763	3,252	4,326	4,487	5,130
Iowa	777	902	1,391	980	1,054	1,003	1,017	1,346	1,451	1,625
Kansas	NA	464	764	1,351	1,518	1,556	1,420	1,865	2,024	2,169
Kentucky	317	429	594	526	645	968	866	1,128	1,014	1,006
Louisiana	453	470	423	554	542	626	627	858	954	972
Maine	NA	114	345	149	159	225	319	429	372	384
Maryland	5,736	7,530	6,865	7,395	8,019	8,087	8,634	9,030	10,162	14,341
Massachusetts	8,565	9,498	9,970	11,097	13,382	12,190	13,004	14,316	15,638	15,987
Michigan	8,851	10,778	13,275	13,991	13,655	18,799	18,892	15,082	16,884	16,722

State Indicators

State	1991	1993	1995	1997	1998	1999	2000	2002	2003	2004
Minnesota	2,228	2,922	3,087	3,605	3,818	3,905	4,299	5,247	5,842	5,992
Mississippi	302	324	315	370	366	476	513	691	1,519	651
Missouri	NA	1,789	2,498	1,826	1,868	2,009	2,583	2,478	2,731	3,038
Montana	NA	90	119	199	191	169	170	236	247	295
Nebraska	211	295	336	275	315	417	439	663	710	740
Nevada	261	219	445	517	571	458	377	524	579	623
New Hampshire	NA	439	598	799	1,340	1,256	775	1,435	1,664	1,665
New Jersey	8,778	9,181	9,128	12,067	11,368	10,536	13,133	13,020	12,795	12,460
New Mexico	2,589	2,752	3,295	3,028	3,032	3,279	3,085	4,689	4,977	5,114
New York	10,315	10,974	10,955	12,307	13,731	14,110	13,556	13,354	13,031	13,113
North Carolina	1,965	2,745	3,192	4,667	4,560	5,268	5,045	5,135	6,343	6,491
North Dakota	NA	92	98	116	119	168	146	295	382	558
Ohio	5,975	6,398	5,315	7,145	6,970	8,082	7,662	8,310	8,583	7,816
Oklahoma	604	533	529	644	513	664	660	793	968	814
Oregon	600	774	1,089	1,520	1,910	1,974	2,116	2,892	3,572	3,664
Pennsylvania	7,621	8,278	6,919	8,209	8,762	10,695	9,842	9,763	9,944	10,813
Rhode Island	485	484	897	1,040	1,677	1,651	1,501	1,639	1,757	1,840
South Carolina	594	713	996	1,040	989	979	1,126	1,668	1,616	1,599
South Dakota	32	59	55	71	60	60	85	111	149	149
Tennessee	1,142	1,213	1,394	1,566	2,503	2,290	2,057	2,568	2,998	3,180
Texas	6,635	6,966	8,385	9,487	10,774	12,429	11,552	14,223	14,785	14,266
Utah	664	751	1,144	1,381	1,495	1,474	1,361	1,572	1,506	1,602
Vermont	NA	343	308	314	175	389	465	398	492	546
Virginia	2,776	2,939	3,897	4,136	4,934	5,100	5,069	5,895	7,582	7,345
Washington	3,890	5,422	5,241	7,543	8,466	8,336	10,516	10,511	11,469	10,936
West Virginia	NA	280	475	427	421	439	457	542	538	523



State Indicators

State	1991	1993	1995	1997	1998	1999	2000	2002	2003	2004
Wisconsin	1,573	1,852	2,226	2,256	2,501	2,566	2,693	3,585	3,642	3,675
Wyoming	41	63	87	87	65	66	61	80	113	98
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA = not available

Science and Engineering Indicators 2018

State Indicators

R&D performed

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	325,288	350,908	377,890	404,773	402,931	406,580	426,161	433,619	453,964	475,418
Alabama	2,804	3,300	3,289	4,870	3,936	3,748	4,946	3,924	3,920	4,616
Alaska	266	291	311	269	300	355	381	292	318	289
Arizona	4,139	4,760	5,006	7,010	6,511	5,481	6,453	6,510	6,712	6,936
Arkansas	528	572	632	747	986	596	678	636	611	636
California	63,874	71,335	77,608	81,323	79,671	81,035	91,420	97,531	104,676	114,845
Colorado	5,807	6,153	6,828	5,810	6,087	6,171	6,862	6,455	6,740	6,775
Connecticut	8,987	9,049	10,228	11,322	11,447	7,458	8,736	8,681	9,124	10,219
Delaware	1,635	1,588	1,607	1,594	2,244	2,329	2,296	2,614	2,521	2,732
District of Columbia	3,342	3,762	3,862	5,946	4,200	3,568	3,418	3,133	4,189	3,935
Florida	6,224	6,339	7,158	6,515	7,098	8,002	9,073	8,289	8,856	9,009
Georgia	3,867	4,440	4,425	5,232	5,918	5,454	5,779	5,952	6,191	6,881
Hawaii	513	518	592	663	671	691	746	676	659	639
Idaho	1,030	927	1,115	1,375	1,563	1,783	1,795	1,850	1,928	2,130
Illinois	12,519	13,609	14,287	11,961	12,491	15,822	15,974	16,736	16,932	15,964
Indiana	5,455	5,784	5,980	6,111	6,457	6,340	7,579	7,541	7,958	7,343
Iowa	1,669	1,715	1,882	2,136	2,608	2,766	3,144	2,605	2,875	3,003
Kansas	2,366	2,441	1,697	2,029	2,108	2,004	2,081	2,629	2,513	2,510
Kentucky	1,136	1,342	1,406	1,463	1,552	1,499	1,895	1,708	1,852	1,717
Louisiana	966	972	1,073	1,193	1,175	1,206	1,523	1,112	1,075	1,120
Maine	524	450	485	516	757	489	535	532	554	596
Maryland	14,136	14,493	14,130	16,605	18,388	18,431	19,219	18,354	19,105	20,211
Massachusetts	17,757	20,577	24,557	20,090	20,254	20,658	22,022	24,129	24,128	27,945
Michigan	18,372	18,189	17,402	15,507	13,916	14,704	16,372	17,844	18,805	19,764

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	7,137	7,149	7,533	6,697	7,928	7,394	7,394	7,381	7,845	8,244
Mississippi	777	758	838	808	841	856	941	1,143	1,063	1,125
Missouri	3,627	3,650	3,754	3,884	4,416	9,261	NA	8,235	8,365	7,957
Montana	318	307	859	401	363	392	408	366	335	464
Nebraska	800	840	900	988	1,034	936	1,115	1,105	1,108	1,094
Nevada	614	792	794	913	842	940	889	845	761	817
New Hampshire	1,776	2,121	2,146	2,496	1,210	2,159	2,471	2,345	2,426	2,424
New Jersey	14,900	16,259	19,552	20,713	20,222	17,880	15,705	17,630	15,877	15,370
New Mexico	5,265	5,789	5,663	5,906	5,817	6,225	6,070	5,905	5,803	5,816
New York	14,103	14,366	15,939	16,486	16,491	17,243	18,566	18,249	18,619	20,820
North Carolina	7,329	7,710	9,204	8,612	8,111	8,765	9,356	9,382	11,318	11,343
North Dakota	285	316	327	511	445	469	504	480	489	523
Ohio	8,267	9,431	10,041	10,164	10,093	10,050	10,359	10,928	11,164	12,005
Oklahoma	814	888	921	1,030	1,003	1,029	1,207	1,044	1,016	1,113
Oregon	3,920	4,104	4,333	4,802	4,864	5,264	5,515	6,031	6,483	7,279
Pennsylvania	11,916	12,929	13,510	13,068	13,479	13,079	13,651	13,210	14,743	14,898
Rhode Island	1,990	2,000	1,081	1,233	1,152	1,439	1,396	1,291	1,328	1,298
South Carolina	2,108	2,164	2,291	2,086	2,276	2,417	2,389	2,660	1,949	2,034
South Dakota	157	191	240	254	263	271	293	266	308	271
Tennessee	3,009	3,263	3,659	3,871	3,925	3,955	4,218	4,328	4,146	4,245
Texas	15,867	17,059	17,853	20,316	20,027	19,506	20,623	20,673	21,690	22,467
Utah	1,886	1,945	2,337	2,522	2,733	3,207	3,276	2,912	3,825	3,669
Vermont	493	493	534	546	551	453	519	592	533	422
Virginia	8,568	9,867	9,473	11,472	11,449	10,845	11,166	10,101	9,430	10,489
Washington	11,864	13,585	15,061	16,696	19,313	16,695	17,979	17,678	18,005	18,987
West Virginia	567	534	650	778	658	591	597	627	616	604



State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	3,802	4,132	4,555	4,967	4,930	5,351	5,605	5,698	5,718	5,789
Wyoming	122	129	129	154	141	108	115	106	107	123
Puerto Rico	NA	NA	NA	NA	NA	NA	188	164	168	127
NA = not available										
<i>Science and Engineering Indicators 2018</i>										

State Indicators

R&D performed

State	2015	2016
United States	493,687	515,305
Alabama	4,195	5,052
Alaska	333	303
Arizona	7,011	8,040
Arkansas	624	701
California	125,056	135,129
Colorado	6,697	6,874
Connecticut	9,918	9,295
Delaware	2,887	2,285
District of Columbia	3,567	3,516
Florida	9,456	9,781
Georgia	6,877	7,659
Hawaii	609	553
Idaho	2,226	2,304
Illinois	16,502	17,495
Indiana	7,663	7,442
Iowa	3,407	3,787
Kansas	2,716	2,790
Kentucky	1,853	1,650
Louisiana	1,124	1,025
Maine	508	483
Maryland	20,385	21,730
Massachusetts	28,665	28,941
Michigan	19,891	21,803

State Indicators

State	2015	2016
Minnesota	8,053	8,370
Mississippi	943	920
Missouri	7,426	7,204
Montana	459	394
Nebraska	1,087	1,129
Nevada	566	789
New Hampshire	2,333	2,344
New Jersey	15,865	17,564
New Mexico	6,078	6,306
New York	22,401	23,212
North Carolina	11,823	13,415
North Dakota	460	515
Ohio	12,233	11,991
Oklahoma	1,311	1,371
Oregon	7,208	7,382
Pennsylvania	14,839	17,420
Rhode Island	1,427	1,641
South Carolina	2,257	2,276
South Dakota	271	289
Tennessee	4,369	4,545
Texas	23,668	23,431
Utah	4,174	4,157
Vermont	374	376
Virginia	10,107	9,333
Washington	20,038	22,902
West Virginia	546	450



State Indicators

State	2015	2016
Wisconsin	6,132	6,517
Wyoming	253	292
Puerto Rico	137	127

Science and Engineering Indicators 2018

State Indicators

State GDP

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	5,682,781	5,875,406	6,202,761	6,505,139	6,953,092	7,342,618	7,795,944	8,626,416	9,117,663	9,689,317
Alabama	71,610	76,043	81,260	84,563	90,099	95,819	100,146	104,087	109,404	115,031
Alaska	25,040	22,283	22,753	23,284	23,605	25,449	26,737	25,745	24,170	24,733
Arizona	70,632	73,358	82,682	89,300	100,374	109,906	119,530	132,418	143,392	155,345
Arkansas	38,680	41,572	45,018	47,566	51,416	54,612	57,976	59,866	62,443	66,817
California	773,460	790,046	807,358	826,447	861,360	911,577	964,186	1,070,524	1,147,842	1,247,093
Colorado	75,571	79,766	87,302	95,659	104,507	112,708	121,081	136,675	150,382	164,227
Connecticut	100,169	101,475	105,759	107,680	113,115	123,212	129,111	138,649	145,495	152,338
Delaware	19,928	21,746	22,907	23,509	25,638	27,721	29,157	32,968	36,783	40,364
District of Columbia	39,688	41,430	43,187	45,356	46,655	47,094	47,823	52,452	54,880	58,832
Florida	256,589	267,669	284,673	304,403	327,167	346,951	370,913	401,723	430,064	458,319
Georgia	140,646	147,760	160,062	171,659	187,996	203,397	219,989	242,596	264,895	288,994
Hawaii	32,534	34,357	36,130	36,732	37,395	37,763	38,125	37,655	37,624	39,250
Idaho	18,004	18,852	20,632	23,100	25,456	27,762	28,915	29,439	30,984	34,138
Illinois	279,019	288,474	306,236	320,079	347,972	364,451	383,504	415,771	436,167	459,322
Indiana	110,860	114,637	124,714	132,108	143,335	150,404	158,350	170,545	184,582	193,101
Iowa	56,122	57,944	61,870	63,386	70,161	73,137	78,819	82,572	84,547	87,662
Kansas	51,874	53,981	56,902	58,953	63,304	65,282	69,616	74,665	78,479	81,853
Kentucky	68,412	71,679	77,531	81,618	87,646	91,915	96,617	104,584	109,656	115,259
Louisiana	95,177	96,043	90,890	95,866	105,119	112,876	118,807	116,495	120,429	125,990
Maine	23,256	23,379	24,329	25,202	26,544	28,153	29,256	30,631	32,167	34,382
Maryland	112,835	115,428	119,535	125,515	133,311	139,070	145,023	159,336	169,980	180,207
Massachusetts	159,505	160,728	167,435	173,527	185,710	196,409	210,631	237,316	249,154	264,779
Michigan	193,103	197,717	212,057	226,368	251,484	256,615	270,320	299,843	312,611	337,561

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	102,757	106,103	114,518	117,947	128,167	135,124	145,880	155,922	166,293	174,650
Mississippi	38,757	40,862	44,012	47,340	51,602	54,984	57,460	58,340	60,992	63,827
Missouri	103,566	109,162	115,288	118,906	130,567	140,060	148,257	163,152	169,369	177,361
Montana	13,242	13,875	14,937	16,054	17,062	17,519	18,119	19,307	20,445	20,830
Nebraska	33,734	35,613	38,214	39,353	43,504	45,111	49,007	49,886	51,829	53,689
Nevada	30,980	32,786	36,052	40,039	45,173	49,249	54,419	60,593	65,315	71,535
New Hampshire	23,768	24,763	26,332	27,362	29,190	31,876	34,561	38,215	40,558	41,880
New Jersey	214,357	221,915	230,775	240,389	251,573	263,468	278,191	307,896	319,946	336,650
New Mexico	26,600	30,295	32,638	36,876	41,685	42,146	44,532	52,511	50,682	53,093
New York	493,192	497,336	519,704	537,504	555,322	582,656	620,153	718,323	745,224	793,721
North Carolina	139,658	146,368	159,337	168,006	181,288	193,467	203,815	233,924	245,907	264,064
North Dakota	11,509	11,691	12,896	13,049	14,304	14,842	16,491	15,730	16,793	16,984
Ohio	227,413	233,975	250,650	259,612	281,925	297,538	311,120	343,467	361,629	376,035
Oklahoma	57,805	59,632	62,209	65,552	68,251	70,859	76,316	79,096	81,209	84,063
Oregon	56,566	59,441	63,392	69,409	75,393	81,554	93,306	100,889	105,112	107,546
Pennsylvania	245,281	255,163	269,849	281,704	296,602	312,989	325,001	356,146	372,739	389,716
Rhode Island	21,664	21,738	22,665	23,566	24,354	25,550	26,454	28,930	30,720	32,296
South Carolina	65,157	68,000	71,848	76,158	82,062	87,248	90,755	97,393	103,643	110,252
South Dakota	12,770	13,736	14,886	16,105	17,330	18,054	19,419	19,000	20,185	21,051
Tennessee	94,087	101,208	111,660	119,568	129,895	137,061	143,163	154,413	167,308	175,820
Texas	378,943	393,574	416,401	443,775	475,990	507,725	551,513	610,257	645,697	681,335
Utah	31,249	33,501	35,602	38,631	42,591	46,746	52,016	57,700	62,291	66,023
Vermont	11,674	11,733	12,538	13,027	13,689	13,891	14,672	15,415	16,073	17,159
Virginia	144,971	151,093	158,990	167,688	177,057	186,236	197,756	217,252	233,096	249,798
Washington	118,640	125,895	134,469	142,500	150,805	155,069	166,540	193,898	210,205	230,555
West Virginia	27,754	29,092	30,410	31,881	34,592	36,149	37,224	38,840	40,086	41,831



State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	100,236	104,774	112,972	120,024	129,437	135,311	143,444	153,241	162,523	172,258
Wyoming	12,706	12,977	13,179	13,791	14,070	14,608	15,752	14,724	14,928	15,711
Puerto Rico	31,034	32,741	35,117	37,442	40,249	43,246	45,978	48,864	54,846	58,654

Science and Engineering Indicators 2018

State Indicators

State GDP

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	10,314,916	10,652,003	11,009,049	11,534,125	12,294,052	13,120,552	13,901,885	14,541,384	14,806,484	14,545,318
Alabama	119,242	122,449	127,792	133,739	146,525	155,970	163,854	169,678	172,687	168,348
Alaska	26,778	28,420	29,605	31,800	34,971	39,775	44,435	48,973	54,752	49,586
Arizona	164,612	171,474	179,413	192,751	205,421	228,231	248,231	262,322	259,367	243,929
Arkansas	68,770	70,601	73,950	78,219	84,625	89,610	94,385	96,948	98,955	97,059
California	1,366,561	1,384,111	1,436,431	1,527,294	1,632,217	1,753,866	1,874,737	1,955,856	1,990,678	1,920,062
Colorado	180,606	187,572	190,963	196,484	203,980	219,908	231,206	246,044	255,567	248,594
Connecticut	165,899	173,127	176,208	181,340	198,662	208,766	222,889	237,543	240,911	236,393
Delaware	43,389	46,448	45,758	47,762	51,449	52,154	55,067	56,279	54,788	56,871
District of Columbia	61,096	65,566	70,055	74,090	80,471	85,305	88,517	93,970	99,479	100,895
Florida	489,488	516,690	548,540	583,726	635,526	696,741	744,464	768,661	750,502	724,582
Georgia	307,612	318,753	326,930	340,411	364,255	386,785	402,145	415,132	412,912	407,025
Hawaii	41,500	42,894	45,447	48,929	53,762	58,668	62,365	65,234	66,865	65,692
Idaho	37,993	37,384	38,715	40,342	43,739	47,963	50,976	53,852	55,546	53,775
Illinois	487,213	502,260	514,064	529,455	558,748	586,694	621,860	647,862	646,367	644,690
Indiana	203,053	204,581	212,430	223,495	236,936	243,738	255,055	269,054	272,846	261,238
Iowa	93,029	94,771	98,976	105,074	116,653	122,224	126,884	136,977	136,554	136,251
Kansas	85,853	88,380	90,949	94,604	97,676	103,937	112,650	122,453	127,682	124,341
Kentucky	114,293	117,431	122,193	126,971	134,194	142,649	151,007	154,532	158,099	155,780
Louisiana	132,810	137,845	139,538	154,362	169,873	197,567	205,800	206,641	215,069	206,885
Maine	36,841	38,501	40,184	41,839	44,526	45,875	47,921	49,149	49,974	50,557
Maryland	192,106	205,450	218,299	228,690	246,762	265,930	279,468	287,873	296,435	302,507
Massachusetts	289,927	296,834	303,967	315,300	330,670	345,586	361,266	379,877	388,583	391,265
Michigan	351,573	348,529	362,271	373,839	381,229	394,229	395,451	403,736	386,054	365,592

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	189,965	194,647	202,766	215,156	230,282	242,863	249,735	258,827	264,688	259,959
Mississippi	65,646	67,029	68,866	73,332	77,214	80,996	85,869	91,058	96,844	93,206
Missouri	187,297	191,199	196,598	204,010	214,218	223,497	231,772	240,159	250,581	251,780
Montana	21,885	22,852	23,881	25,638	27,939	30,530	32,933	36,074	36,863	35,984
Nebraska	56,504	59,467	61,604	66,416	70,289	73,959	78,150	83,123	85,201	86,830
Nevada	76,627	80,427	84,734	90,779	104,421	117,856	127,576	131,600	129,372	121,110
New Hampshire	45,226	46,630	48,679	51,378	54,127	56,352	59,412	60,733	60,919	61,937
New Jersey	362,007	373,756	388,338	405,199	422,889	440,774	464,459	480,539	495,122	486,513
New Mexico	55,233	55,986	58,056	62,896	69,741	73,684	77,426	80,573	83,724	82,017
New York	838,660	877,149	886,793	905,281	955,192	1,015,046	1,071,393	1,108,896	1,099,234	1,152,812
North Carolina	275,694	288,684	298,110	309,318	328,038	352,395	383,522	396,348	413,363	406,477
North Dakota	17,976	18,920	20,209	22,077	23,168	24,417	26,120	28,680	31,722	32,003
Ohio	391,138	395,623	411,967	424,916	445,541	465,809	477,180	490,965	495,743	480,322
Oklahoma	90,793	96,767	99,163	105,243	113,149	124,563	137,084	144,893	159,660	145,736
Oregon	117,258	117,275	121,230	127,212	136,239	143,663	155,153	161,512	165,189	160,641
Pennsylvania	407,653	424,965	436,986	455,107	481,739	505,585	526,396	560,753	582,240	577,380
Rhode Island	34,516	35,992	38,132	40,273	43,246	45,162	47,712	47,846	47,108	47,901
South Carolina	115,247	119,301	124,160	130,337	135,160	142,617	150,659	159,363	161,805	159,836
South Dakota	22,691	23,513	26,338	27,445	29,629	30,659	31,899	34,702	36,669	36,193
Tennessee	181,630	185,775	195,289	203,834	218,021	228,099	240,194	244,252	251,609	250,544
Texas	738,871	773,007	787,258	829,764	906,321	986,401	1,085,295	1,178,583	1,237,395	1,163,401
Utah	70,292	73,226	75,999	79,149	85,702	94,195	106,124	114,653	115,985	113,333
Vermont	18,312	19,274	20,163	21,130	22,666	23,509	24,310	24,697	25,678	25,868
Virginia	266,886	284,002	293,276	309,981	332,251	360,300	379,129	392,917	399,032	408,919
Washington	237,832	239,426	248,189	258,263	270,115	296,101	317,167	346,443	355,678	353,632
West Virginia	42,607	43,978	45,434	46,668	49,272	53,259	56,530	58,636	62,067	62,958



State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	180,539	187,939	194,813	203,135	215,139	225,698	235,709	243,767	244,760	245,539
Wyoming	17,205	18,661	19,116	21,028	23,187	27,178	32,405	36,603	42,540	36,042
Puerto Rico	62,569	70,181	72,631	75,879	80,322	83,915	87,276	89,524	93,639	96,386

Science and Engineering Indicators 2018

State Indicators

State GDP

State	2010	2011	2012	2013	2014	2015	2016	2017	2018
United States	15,090,433	15,642,934	16,298,572	16,887,301	17,624,193	18,322,673	18,811,150	19,589,613	NA
Alabama	174,753	181,350	186,299	191,481	194,060	200,461	203,398	211,666	221,126
Alaska	52,883	56,260	57,670	56,623	55,547	50,615	49,429	51,687	54,011
Arizona	248,210	257,948	268,289	275,199	284,574	297,096	311,397	326,539	346,792
Arkansas	101,690	106,085	108,745	114,252	117,339	118,526	120,090	123,714	128,082
California	1,974,615	2,050,057	2,144,497	2,262,771	2,396,552	2,558,171	2,663,396	2,809,922	2,968,118
Colorado	255,141	264,432	273,520	288,305	306,362	318,230	329,097	347,196	368,795
Connecticut	237,653	236,524	243,801	246,632	248,954	259,698	262,979	265,535	274,180
Delaware	57,447	60,357	61,976	60,666	67,179	70,896	70,380	72,167	74,973
District of Columbia	106,120	110,076	112,737	114,891	119,994	125,177	129,817	134,901	140,280
Florida	737,791	746,788	769,309	800,704	839,706	894,044	938,370	979,465	1,036,323
Georgia	416,884	429,574	444,132	460,585	484,915	512,694	538,238	562,121	588,172
Hawaii	68,197	70,483	73,583	75,788	77,973	82,751	85,867	89,044	92,027
Idaho	55,171	56,488	57,764	61,018	63,615	66,339	69,313	72,442	77,004
Illinois	662,638	688,289	720,702	739,628	765,910	792,614	805,434	825,811	864,587
Indiana	280,121	288,749	297,553	308,682	325,041	329,725	338,227	351,072	366,707
Iowa	141,482	147,227	157,251	160,300	171,513	177,965	180,351	182,979	190,150
Kansas	127,745	135,315	140,478	143,221	148,276	151,652	155,682	160,083	167,042
Kentucky	164,606	169,941	176,302	182,359	186,695	192,019	195,080	200,991	208,340
Louisiana	225,677	228,988	233,623	228,967	237,877	234,344	228,087	238,138	252,117
Maine	51,711	51,867	52,874	53,719	55,875	57,485	59,604	61,720	64,351
Maryland	316,452	328,058	334,822	341,255	352,524	367,226	384,156	398,416	412,921
Massachusetts	409,763	425,593	444,330	454,346	473,454	502,678	519,741	540,949	567,255
Michigan	386,626	401,105	418,857	432,718	448,964	473,988	490,183	505,845	528,008

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017	2018
Minnesota	271,821	283,807	294,297	306,153	319,339	328,733	338,638	352,267	368,317
Mississippi	95,208	96,372	99,615	101,638	103,658	105,786	106,891	109,901	114,107
Missouri	258,544	260,094	268,762	277,851	284,729	294,758	296,070	304,051	317,749
Montana	38,055	40,579	42,006	43,141	44,529	46,175	45,550	47,074	48,970
Nebraska	91,813	99,613	102,269	107,604	111,331	115,056	116,056	118,546	122,966
Nevada	123,598	126,657	128,043	130,621	135,027	144,299	150,436	157,021	165,803
New Hampshire	64,152	65,431	67,689	70,182	72,369	75,877	78,402	81,179	84,712
New Jersey	495,149	499,115	519,746	533,687	546,832	569,482	581,271	599,315	624,852
New Mexico	83,989	86,625	87,602	88,411	92,496	90,906	91,004	94,238	99,435
New York	1,213,947	1,236,061	1,322,448	1,355,581	1,427,813	1,487,789	1,541,524	1,598,457	1,676,350
North Carolina	415,206	427,206	439,571	455,522	475,227	503,294	518,248	537,889	565,801
North Dakota	35,426	41,179	51,345	53,882	58,547	54,938	50,772	51,612	54,714
Ohio	497,208	525,388	540,819	561,046	593,030	609,750	621,363	645,820	676,193
Oklahoma	152,911	165,036	173,484	182,618	195,689	185,251	178,510	187,348	199,976
Oregon	163,828	170,621	174,493	179,383	189,344	203,323	215,153	226,057	238,684
Pennsylvania	599,313	618,988	641,317	663,901	690,675	710,026	724,266	752,340	788,538
Rhode Island	49,572	50,176	51,642	53,210	54,573	56,806	57,727	59,255	61,021
South Carolina	163,857	170,087	175,375	183,015	191,967	203,816	212,675	221,897	230,354
South Dakota	37,484	41,542	43,445	44,815	46,057	47,699	48,462	49,609	51,581
Tennessee	255,936	267,659	283,722	292,804	304,150	322,688	334,385	347,835	365,602
Texas	1,237,197	1,331,221	1,411,379	1,502,250	1,565,390	1,568,147	1,564,396	1,654,494	1,775,797
Utah	117,961	124,539	128,721	134,252	141,343	149,524	157,902	165,703	177,336
Vermont	27,108	28,135	28,887	29,099	29,714	30,709	31,635	32,623	33,725
Virginia	422,902	432,393	444,950	455,070	463,782	484,628	493,866	510,425	534,449
Washington	365,552	379,539	400,863	419,345	442,442	470,582	492,943	522,426	563,151
West Virginia	65,274	68,525	69,399	71,038	72,027	70,341	69,814	73,099	77,477



State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017	2018
Wisconsin	254,354	263,882	274,344	282,385	293,519	304,852	312,141	321,584	336,972
Wyoming	37,401	39,371	38,432	38,923	39,372	37,740	35,905	37,625	39,371
Puerto Rico	98,381	100,352	101,565	102,450	102,446	103,376	103,961	104,219	NA
NA = not available									
<i>Science and Engineering Indicators 2018</i>									