

## 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

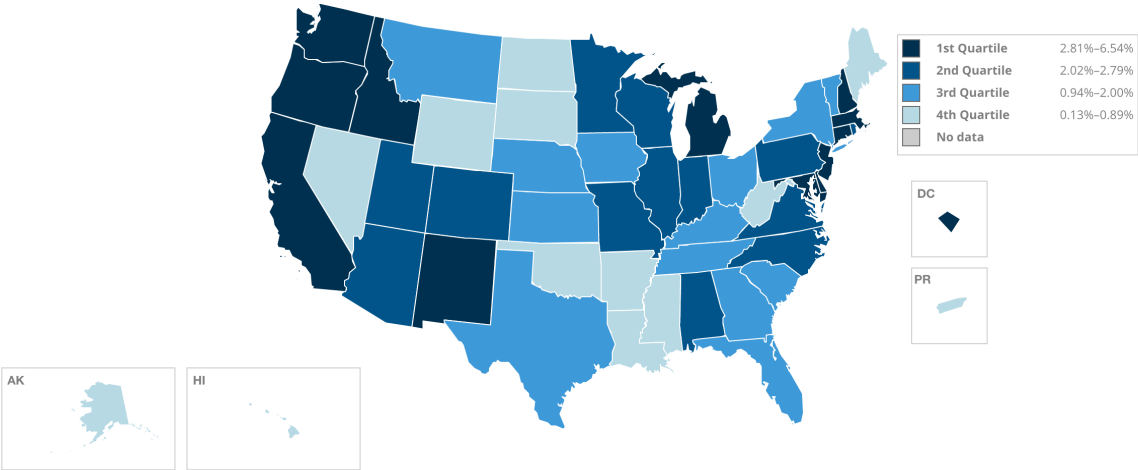
The National Patterns analysis integrates R&D spending and funding data from these separate surveys into U.S. R&D performance totals, which are then reported on a calendar year basis and for the main performing sectors and funding sources.

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.

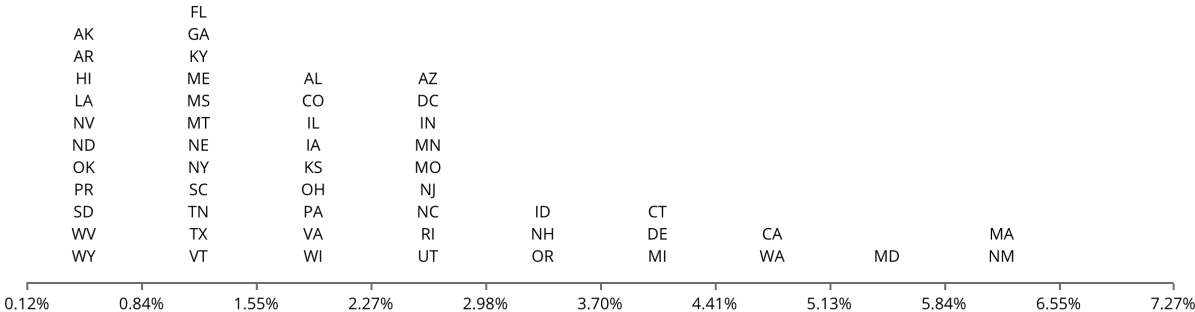
# State Indicators

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

2015



### Distribution of states across indicator values, 2015



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	2.47	2.49	2.53	2.61	2.53	2.53	2.47
Alabama	1.99	2.33	1.75	1.57	1.76	1.53	1.45	1.82	1.89	1.88
Alaska	0.66	0.55	0.64	0.53	NA	0.62	0.73	1.03	1.00	0.77
Arizona	1.91	1.80	1.78	1.82	1.61	3.26	1.87	2.28	1.86	1.74
Arkansas	0.48	0.63	0.60	0.45	0.45	0.57	0.66	0.58	0.65	0.60
California	3.59	4.08	3.95	3.85	3.82	3.84	4.04	3.59	3.92	3.62
Colorado	NA	2.99	2.40	2.36	3.03	2.55	2.33	2.18	2.52	2.69
Connecticut	1.89	2.61	3.50	2.47	2.41	2.87	2.89	3.81	3.57	3.93
Delaware	NA	5.31	4.14	3.23	6.85	3.25	3.42	2.81	2.89	2.26
District of Columbia	4.19	5.61	6.64	5.37	4.84	4.35	3.82	3.92	3.69	3.01
Florida	1.38	1.16	1.51	1.19	1.10	0.92	0.94	0.98	0.87	0.85
Georgia	1.00	0.92	1.04	0.94	0.94	1.03	0.91	1.21	1.15	1.00
Hawaii	0.42	1.03	0.45	0.73	0.64	0.69	0.70	1.00	0.89	0.91
Idaho	NA	2.07	3.29	4.31	3.62	3.82	3.75	3.52	2.97	2.31
Illinois	2.22	2.12	2.05	1.91	2.01	2.10	2.60	1.98	2.08	2.02
Indiana	2.05	1.94	2.10	1.82	1.66	1.42	1.58	2.02	1.99	2.15
Iowa	1.34	1.42	1.90	1.17	1.23	1.13	1.07	1.34	1.36	1.38
Kansas	NA	0.79	1.17	1.80	1.92	1.88	1.63	2.03	2.10	2.19
Kentucky	0.44	0.53	0.65	0.50	0.59	0.84	0.76	0.92	0.79	0.74
Louisiana	0.47	0.49	0.37	0.47	0.45	0.50	0.47	0.61	0.61	0.57
Maine	NA	0.45	1.23	0.49	0.49	0.65	0.86	1.06	0.88	0.86
Maryland	4.97	6.00	4.94	4.59	4.71	4.47	4.48	4.16	4.46	5.81
Massachusetts	5.33	5.47	5.08	4.68	5.37	4.60	4.49	4.71	4.96	4.84

## State Indicators

State	1991	1993	1995	1997	1998	1999	2000	2002	2003	2004
Michigan	4.48	4.76	5.17	4.62	4.36	5.57	5.37	4.14	4.49	4.37
Minnesota	2.10	2.48	2.28	2.29	2.29	2.22	2.25	2.58	2.70	2.59
Mississippi	0.74	0.68	0.57	0.63	0.60	0.74	0.78	1.00	2.06	0.84
Missouri	NA	1.50	1.78	1.12	1.09	1.12	1.37	1.26	1.33	1.41
Montana	NA	0.56	0.68	1.04	0.94	0.81	0.77	0.98	0.96	1.05
Nebraska	0.59	0.75	0.74	0.54	0.60	0.77	0.77	1.07	1.06	1.05
Nevada	0.80	0.55	0.90	0.86	0.88	0.64	0.49	0.61	0.63	0.59
New Hampshire	NA	1.60	1.88	2.08	3.30	2.99	1.70	2.92	3.22	3.06
New Jersey	3.96	3.82	3.46	3.92	3.54	3.12	3.61	3.33	3.13	2.93
New Mexico	8.55	7.46	7.82	5.76	6.00	6.18	5.58	8.03	7.82	7.27
New York	2.07	2.04	1.88	1.73	1.85	1.79	1.63	1.50	1.44	1.37
North Carolina	1.34	1.63	1.65	2.01	1.84	1.98	1.82	1.71	2.03	1.95
North Dakota	NA	0.71	0.66	0.74	0.71	0.99	0.81	1.46	1.72	2.40
Ohio	2.55	2.46	1.79	2.08	1.91	2.13	1.94	2.01	2.00	1.73
Oklahoma	1.01	0.81	0.75	0.81	0.63	0.78	0.72	0.80	0.91	0.71
Oregon	1.01	1.12	1.34	1.51	1.81	1.83	1.80	2.39	2.80	2.57
Pennsylvania	2.99	2.94	2.21	2.31	2.34	2.74	2.41	2.23	2.18	2.24
Rhode Island	2.23	2.05	3.51	3.57	5.45	5.10	4.34	4.27	4.31	4.21
South Carolina	0.87	0.94	1.14	1.06	0.95	0.88	0.97	1.34	1.23	1.17
South Dakota	0.23	0.37	0.30	0.37	0.30	0.28	0.37	0.41	0.53	0.49
Tennessee	1.13	1.01	1.02	1.01	1.51	1.31	1.14	1.32	1.47	1.46
Texas	1.69	1.57	1.65	1.54	1.66	1.82	1.56	1.80	1.77	1.57
Utah	1.98	1.94	2.45	2.42	2.42	2.24	1.94	2.07	1.89	1.87
Vermont	NA	2.63	2.22	2.02	1.08	2.26	2.53	1.97	2.30	2.41
Virginia	1.84	1.75	2.09	1.89	2.11	2.03	1.89	2.01	2.44	2.22
Washington	3.09	3.80	3.38	3.89	4.03	3.61	4.43	4.22	4.44	4.04

## State Indicators

State	1991	1993	1995	1997	1998	1999	2000	2002	2003	2004
West Virginia	NA	0.88	1.31	1.10	1.06	1.05	1.07	1.19	1.15	1.06
Wisconsin	1.50	1.54	1.65	1.45	1.53	1.48	1.48	1.83	1.78	1.70
Wyoming	0.32	0.46	0.60	0.59	0.43	0.42	0.35	0.41	0.53	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 Science Foundation, National Center for Science and Engineering Statistics, National Patterns of R&D Resources (various years), data as of October 2017; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years), data as of May 2018; Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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>

Last updated: September 27, 2018

*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	2.53	2.61	2.75	2.79	2.72	2.75	2.69	2.72	2.73
Alabama	1.79	2.01	1.94	2.82	2.34	2.15	2.74	2.11	2.06	2.38
Alaska	0.66	0.65	0.63	0.49	0.59	0.66	0.65	0.48	0.53	0.50
Arizona	1.82	1.92	1.91	2.73	2.68	2.23	2.54	2.46	2.48	2.47
Arkansas	0.58	0.60	0.65	0.75	1.01	0.58	0.63	0.58	0.53	0.54
California	3.62	3.80	3.97	4.10	4.17	4.12	4.49	4.58	4.71	4.87
Colorado	2.63	2.65	2.78	2.28	2.46	2.44	2.61	2.37	2.35	2.22
Connecticut	4.28	4.09	4.32	4.75	4.90	3.18	3.73	3.63	3.79	4.18
Delaware	3.07	2.84	2.82	2.88	3.91	4.05	3.83	4.31	4.13	4.12
District of Columbia	4.00	4.30	4.16	6.11	4.27	3.44	3.17	2.86	3.74	3.38
Florida	0.89	0.85	0.93	0.87	0.98	1.09	1.22	1.08	1.11	1.08
Georgia	1.00	1.10	1.06	1.27	1.46	1.32	1.36	1.36	1.36	1.44
Hawaii	0.88	0.83	0.91	0.99	1.03	1.01	1.07	0.93	0.88	0.83
Idaho	2.18	1.81	2.05	2.46	2.90	3.23	3.16	3.18	3.17	3.36
Illinois	2.13	2.19	2.21	1.86	1.96	2.42	2.35	2.35	2.35	2.12
Indiana	2.22	2.26	2.21	2.23	2.46	2.25	2.60	2.51	2.56	2.25
Iowa	1.35	1.34	1.37	1.55	1.90	1.95	2.11	1.65	1.77	1.75
Kansas	2.26	2.15	1.39	1.58	1.70	1.56	1.52	1.87	1.75	1.69
Kentucky	0.79	0.88	0.90	0.92	0.99	0.90	1.10	0.96	1.02	0.92
Louisiana	0.48	0.47	0.51	0.55	0.56	0.52	0.64	0.46	0.46	0.46
Maine	1.13	0.93	0.98	1.03	1.50	0.95	1.04	1.01	1.04	1.07
Maryland	5.36	5.22	4.93	5.64	6.11	5.87	5.92	5.52	5.63	5.76
Massachusetts	5.15	5.71	6.48	5.21	5.25	5.13	5.28	5.56	5.46	6.08

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State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Michigan	4.65	4.60	4.33	4.04	3.83	3.82	4.10	4.28	4.38	4.44
Minnesota	2.93	2.86	2.91	2.53	3.07	2.74	2.62	2.52	2.58	2.60
Mississippi	0.95	0.88	0.92	0.83	0.90	0.89	0.97	1.13	1.03	1.08
Missouri	1.62	1.57	1.56	1.55	1.76	3.62	NA	3.09	3.03	2.82
Montana	1.04	0.93	2.39	1.09	1.01	1.02	0.99	0.86	0.77	1.03
Nebraska	1.09	1.08	1.10	1.16	1.19	1.01	1.12	1.08	1.04	0.98
Nevada	0.52	0.62	0.60	0.71	0.70	0.77	0.71	0.67	0.59	0.61
New Hampshire	3.10	3.54	3.50	4.06	1.95	3.37	3.79	3.50	3.54	3.40
New Jersey	3.36	3.50	4.07	4.21	4.19	3.66	3.18	3.43	2.99	2.83
New Mexico	7.08	7.42	7.00	6.84	7.02	7.23	6.80	6.55	6.39	6.15
New York	1.38	1.33	1.43	1.48	1.44	1.43	1.51	1.40	1.40	1.50
North Carolina	2.05	1.99	2.32	2.07	1.99	2.11	2.19	2.14	2.49	2.39
North Dakota	1.16	1.20	1.13	1.57	1.37	1.30	1.20	0.91	0.89	0.88
Ohio	1.77	1.96	2.04	2.06	2.10	2.01	1.96	1.99	1.98	2.02
Oklahoma	0.65	0.65	0.63	0.66	0.70	0.69	0.74	0.60	0.55	0.56
Oregon	2.66	2.51	2.53	2.65	2.69	2.75	2.76	3.06	3.30	3.60
Pennsylvania	2.35	2.46	2.41	2.26	2.35	2.19	2.22	2.07	2.23	2.17
Rhode Island	4.36	4.17	2.25	2.60	2.41	2.92	2.81	2.53	2.54	2.41
South Carolina	1.47	1.43	1.43	1.29	1.42	1.47	1.40	1.52	1.07	1.06
South Dakota	0.50	0.59	0.68	0.68	0.72	0.71	0.69	0.62	0.69	0.59
Tennessee	1.32	1.37	1.51	1.55	1.59	1.57	1.60	1.56	1.44	1.42
Texas	1.60	1.57	1.51	1.63	1.72	1.57	1.53	1.44	1.41	1.39
Utah	2.00	1.83	2.01	2.17	2.41	2.72	2.64	2.27	2.87	2.60
Vermont	2.09	2.03	2.15	2.14	2.16	1.70	1.88	2.10	1.86	1.43
Virginia	2.38	2.60	2.41	2.88	2.81	2.58	2.60	2.29	2.10	2.28
Washington	4.00	4.29	4.35	4.71	5.54	4.64	4.86	4.55	4.44	4.44

## State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West Virginia	1.06	0.94	1.10	1.24	1.03	0.88	0.84	0.88	0.85	0.82
Wisconsin	1.68	1.75	1.87	2.03	2.01	2.12	2.14	2.09	2.03	1.99
Wyoming	0.44	0.39	0.36	0.36	0.38	0.28	0.28	0.26	0.26	0.30
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.

**Source(s):**  
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## State Indicators

### R&D as a Percentage of Gross Domestic Product

(Percent)

State	2015
United States	2.73
Alabama	2.10
Alaska	0.63
Arizona	2.39
Arkansas	0.52
California	4.98
Colorado	2.12
Connecticut	3.91
Delaware	4.13
District of Columbia	2.93
Florida	1.06
Georgia	1.36
Hawaii	0.74
Idaho	3.39
Illinois	2.12
Indiana	2.30
Iowa	1.89
Kansas	1.79
Kentucky	0.97
Louisiana	0.46
Maine	0.89
Maryland	5.58
Massachusetts	5.85



## State Indicators

State	2015
Michigan	4.23
Minnesota	2.47
Mississippi	0.89
Missouri	2.55
Montana	0.99
Nebraska	0.94
Nevada	0.40
New Hampshire	3.10
New Jersey	2.81
New Mexico	6.54
New York	1.54
North Carolina	2.35
North Dakota	0.82
Ohio	2.00
Oklahoma	0.69
Oregon	3.34
Pennsylvania	2.09
Rhode Island	2.54
South Carolina	1.11
South Dakota	0.57
Tennessee	1.38
Texas	1.47
Utah	2.79
Vermont	1.23
Virginia	2.11
Washington	4.42

## State Indicators

State	2015
West Virginia	0.75
Wisconsin	2.02
Wyoming	0.64
Puerto Rico	0.13

NA = not available

**Note(s):**  
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## 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	426,160	433,619	453,964	475,426
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
United States	495,144
Alabama	4,195
Alaska	333
Arizona	7,011
Arkansas	624
California	125,056
Colorado	6,697
Connecticut	9,918
Delaware	2,887
District of Columbia	3,567
Florida	9,456
Georgia	6,877
Hawaii	609
Idaho	2,226
Illinois	16,502
Indiana	7,663
Iowa	3,407
Kansas	2,716
Kentucky	1,853
Louisiana	1,124
Maine	508
Maryland	20,385
Massachusetts	28,665
Michigan	19,891

## State Indicators

State	2015
Minnesota	8,053
Mississippi	943
Missouri	7,426
Montana	459
Nebraska	1,087
Nevada	566
New Hampshire	2,333
New Jersey	15,865
New Mexico	6,078
New York	22,401
North Carolina	11,823
North Dakota	460
Ohio	12,233
Oklahoma	1,311
Oregon	7,208
Pennsylvania	14,839
Rhode Island	1,427
South Carolina	2,257
South Dakota	271
Tennessee	4,369
Texas	23,668
Utah	4,174
Vermont	374
Virginia	10,107
Washington	20,038
West Virginia	546



## State Indicators

State	2015
Wisconsin	6,132
Wyoming	253
Puerto Rico	137

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## State Indicators

### State GDP

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	5,682,782	5,875,406	6,202,760	6,505,138	6,953,094	7,342,619	7,795,943	8,591,393	9,079,280	9,654,602
Alabama	71,610	76,043	81,260	84,563	90,098	95,819	100,146	104,218	109,414	115,015
Alaska	25,040	22,283	22,753	23,284	23,605	25,449	26,737	25,446	24,030	24,684
Arizona	70,632	73,358	82,682	89,300	100,374	109,906	119,530	132,708	143,768	156,145
Arkansas	38,680	41,572	45,018	47,566	51,416	54,612	57,976	60,417	62,275	66,715
California	773,460	790,046	807,358	826,447	861,360	911,577	964,186	1,081,444	1,151,119	1,248,006
Colorado	75,571	79,766	87,302	95,659	104,507	112,708	121,081	135,868	150,555	164,835
Connecticut	100,169	101,475	105,759	107,680	113,115	123,212	129,111	140,108	147,911	154,708
Delaware	19,928	21,746	22,907	23,509	25,638	27,721	29,156	33,672	37,298	41,341
District of Columbia	39,688	41,430	43,187	45,356	46,655	47,094	47,823	51,566	53,802	57,728
Florida	256,589	267,669	284,673	304,403	327,167	346,951	370,912	402,340	434,494	464,773
Georgia	140,646	147,760	160,062	171,659	187,996	203,397	219,989	242,153	263,950	287,725
Hawaii	32,534	34,357	36,129	36,732	37,395	37,763	38,125	37,655	37,585	39,224
Idaho	18,004	18,852	20,632	23,100	25,455	27,762	28,915	29,489	31,142	34,302
Illinois	279,019	288,473	306,236	320,079	347,971	364,451	383,504	421,596	440,034	463,400
Indiana	110,860	114,637	124,714	132,108	143,335	150,404	158,350	172,699	186,520	195,099
Iowa	56,121	57,944	61,870	63,386	70,161	73,137	78,819	83,772	85,629	88,697
Kansas	51,874	53,981	56,902	58,953	63,304	65,282	69,616	75,172	79,118	82,643
Kentucky	68,412	71,679	77,531	81,618	87,646	91,915	96,617	104,831	109,619	115,418
Louisiana	95,177	96,043	90,890	95,866	105,119	112,876	118,807	117,982	120,493	126,357
Maine	23,256	23,379	24,329	25,202	26,543	28,153	29,256	30,720	32,394	34,613
Maryland	112,835	115,428	119,535	125,515	133,311	139,070	145,023	161,164	170,417	180,996
Massachusetts	159,505	160,728	167,435	173,527	185,710	196,409	210,630	237,226	249,090	264,740
Michigan	193,103	197,717	212,057	226,368	251,484	256,615	270,320	302,803	313,403	337,639

## State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	102,757	106,102	114,518	117,947	128,167	135,124	145,880	157,214	167,034	175,778
Mississippi	38,757	40,862	44,012	47,340	51,602	54,984	57,460	58,433	61,112	63,993
Missouri	103,566	109,162	115,288	118,906	130,567	140,060	148,257	163,526	170,692	178,605
Montana	13,242	13,875	14,937	16,054	17,062	17,519	18,119	19,178	20,381	20,874
Nebraska	33,734	35,613	38,214	39,353	43,504	45,111	49,007	50,605	52,399	54,223
Nevada	30,980	32,786	36,052	40,039	45,173	49,249	54,419	60,052	64,707	71,428
New Hampshire	23,768	24,763	26,332	27,362	29,190	31,876	34,561	38,400	40,652	42,027
New Jersey	214,357	221,915	230,774	240,389	251,573	263,468	278,191	308,150	321,334	337,918
New Mexico	26,600	30,295	32,638	36,876	41,685	42,146	44,532	52,564	50,566	53,060
New York	493,192	497,336	519,704	537,504	555,322	582,656	620,153	711,272	741,272	790,079
North Carolina	139,658	146,367	159,337	168,006	181,288	193,467	203,815	232,370	247,372	265,463
North Dakota	11,509	11,691	12,896	13,049	14,304	14,842	16,491	15,769	16,761	16,958
Ohio	227,413	233,975	250,650	259,612	281,925	297,538	311,120	343,460	364,985	378,814
Oklahoma	57,805	59,632	62,209	65,552	68,251	70,859	76,316	79,915	81,672	84,642
Oregon	56,566	59,441	63,392	69,409	75,393	81,554	93,306	100,790	105,526	107,742
Pennsylvania	245,281	255,163	269,849	281,704	296,602	312,989	325,001	355,650	373,744	390,617
Rhode Island	21,664	21,738	22,665	23,566	24,354	25,550	26,454	29,142	30,783	32,383
South Carolina	65,157	68,000	71,848	76,158	82,062	87,248	90,755	98,196	104,039	110,707
South Dakota	12,770	13,736	14,886	16,105	17,330	18,054	19,419	19,159	20,328	21,194
Tennessee	94,087	101,208	111,660	119,568	129,895	137,061	143,163	155,195	166,282	174,940
Texas	378,943	393,574	416,401	443,775	475,990	507,725	551,513	614,436	648,156	683,578
Utah	31,249	33,501	35,602	38,631	42,591	46,746	52,016	57,097	61,717	65,851
Vermont	11,674	11,733	12,538	13,027	13,689	13,891	14,672	15,542	16,143	17,218
Virginia	144,971	151,093	158,990	167,688	177,057	186,236	197,756	218,652	234,071	251,056
Washington	118,640	125,895	134,469	142,500	150,805	155,069	166,540	193,968	209,988	230,752
West Virginia	27,754	29,092	30,410	31,881	34,592	36,149	37,224	38,673	39,881	41,854



## 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	155,353	163,831	173,620
Wyoming	12,705	12,977	13,179	13,791	14,070	14,608	15,752	14,719	14,946	15,771
Puerto Rico	31,034	32,741	35,117	37,442	40,249	43,246	45,978	48,864	54,846	58,654

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## State Indicators

### State GDP

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	10,282,373	10,626,186	10,983,468	11,515,989	12,280,481	13,099,077	13,860,503	14,480,672	14,720,235	14,416,501
Alabama	119,020	122,822	127,873	134,388	146,989	156,750	164,468	169,923	172,646	168,315
Alaska	26,853	28,553	29,763	32,039	35,195	40,063	44,679	49,197	55,461	50,463
Arizona	165,912	172,288	179,605	192,685	204,136	227,358	248,459	262,045	256,718	242,509
Arkansas	68,809	70,849	74,097	78,774	85,261	90,319	94,839	97,384	99,838	98,020
California	1,362,995	1,376,163	1,431,267	1,523,473	1,645,084	1,766,693	1,879,520	1,956,523	1,983,926	1,912,115
Colorado	181,488	188,108	193,068	198,811	204,242	220,454	231,920	245,949	254,784	247,270
Connecticut	169,004	175,290	178,017	183,533	200,407	210,170	221,420	236,640	238,211	233,562
Delaware	44,851	47,762	46,985	48,949	52,376	53,247	56,001	56,968	55,293	57,350
District of Columbia	60,059	64,888	69,060	72,780	79,040	83,586	87,496	92,846	97,372	98,415
Florida	497,541	529,627	562,431	595,304	639,276	700,267	746,170	769,817	748,320	721,755
Georgia	306,528	318,226	325,863	340,627	364,062	388,342	404,206	417,700	411,866	404,575
Hawaii	41,472	43,089	45,581	49,136	53,755	58,573	62,054	65,210	66,692	65,382
Idaho	38,216	37,611	38,897	40,703	43,610	47,176	51,157	54,507	55,853	53,882
Illinois	491,644	503,157	513,947	531,106	558,969	586,442	621,232	646,665	642,698	638,032
Indiana	205,487	206,558	214,497	225,295	238,563	245,197	256,434	270,245	273,475	262,068
Iowa	94,792	95,934	100,221	106,651	118,023	123,353	127,961	137,598	137,741	137,069
Kansas	86,869	89,331	91,952	96,368	99,242	104,884	113,362	122,498	128,108	123,986
Kentucky	114,592	118,302	123,039	128,081	135,666	143,875	152,133	155,441	158,847	156,319
Louisiana	133,200	138,911	140,451	155,942	171,375	199,683	207,507	209,455	218,781	210,879
Maine	37,072	38,834	40,520	42,291	44,887	46,277	48,311	49,452	49,949	50,405
Maryland	192,565	205,459	217,004	227,841	246,838	263,809	277,634	286,687	294,564	300,929
Massachusetts	289,688	297,197	304,012	315,400	330,072	345,059	360,557	378,864	385,445	385,698
Michigan	351,621	350,578	364,465	376,269	382,666	395,166	395,550	401,522	384,270	363,146



## State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	191,106	195,810	203,521	216,458	231,170	243,933	250,027	258,917	264,299	258,166
Mississippi	65,937	67,445	69,231	73,814	77,778	81,678	86,291	91,422	97,134	93,669
Missouri	188,736	192,227	197,222	205,164	215,606	224,091	232,795	240,613	250,088	250,436
Montana	21,953	23,054	23,983	25,746	28,019	30,637	32,914	35,947	36,917	36,079
Nebraska	57,235	59,846	61,940	66,931	70,644	73,455	77,547	81,926	84,873	86,961
Nevada	77,006	81,363	85,647	91,846	105,062	118,785	128,311	132,167	128,363	120,202
New Hampshire	45,519	46,967	49,091	51,660	54,327	57,282	59,947	61,370	61,442	62,205
New Jersey	363,295	376,678	391,565	408,941	424,935	443,148	465,027	480,912	491,855	482,143
New Mexico	55,255	56,378	58,372	63,642	70,358	74,403	77,984	80,896	86,318	82,838
New York	833,306	876,598	890,612	905,593	958,357	1,023,433	1,077,891	1,114,698	1,113,446	1,148,407
North Carolina	277,141	290,541	300,834	312,441	332,545	357,168	386,914	397,063	415,095	407,846
North Dakota	17,973	18,971	20,263	22,194	23,262	24,622	26,414	28,887	32,495	32,489
Ohio	395,127	398,945	414,216	428,667	451,195	467,392	480,097	492,925	492,745	479,526
Oklahoma	91,421	97,441	99,459	105,899	113,929	125,243	137,584	145,693	156,398	143,648
Oregon	117,557	116,653	121,204	127,622	142,328	147,535	163,564	170,941	180,934	181,022
Pennsylvania	408,556	426,020	437,895	456,705	483,757	506,505	525,979	559,876	579,432	573,964
Rhode Island	34,613	36,281	38,349	40,788	43,713	45,663	48,011	48,044	47,343	47,709
South Carolina	115,809	120,008	124,902	131,519	136,369	143,585	151,084	160,145	162,266	160,439
South Dakota	22,875	23,951	26,793	28,118	30,261	31,380	32,520	35,165	37,246	36,687
Tennessee	181,216	185,896	194,846	204,167	218,126	227,505	239,017	243,001	249,052	246,541
Texas	741,115	776,521	788,944	833,469	909,635	990,054	1,088,295	1,179,214	1,243,387	1,166,516
Utah	70,172	73,507	76,063	79,610	85,690	94,475	106,312	115,982	116,117	113,194
Vermont	18,391	19,368	20,250	21,362	22,664	23,539	24,319	24,848	25,467	25,527
Virginia	268,371	284,485	293,065	310,240	331,335	359,273	379,180	392,553	398,817	407,302
Washington	237,381	239,397	248,879	258,388	270,385	296,403	316,801	345,971	354,210	348,465
West Virginia	42,703	44,057	45,410	46,671	49,519	53,453	56,871	58,873	62,581	63,866



## State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	182,408	189,229	196,373	204,774	215,990	226,325	235,787	243,632	244,546	244,995
Wyoming	17,349	18,831	19,293	21,235	23,466	27,454	32,674	36,331	42,872	37,129
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
United States	14,958,151	15,506,355	16,142,806	16,679,187	17,414,756	18,110,346	18,615,034	19,263,350
Alabama	174,710	180,665	185,878	190,319	193,966	199,804	204,201	210,954
Alaska	54,134	58,759	60,890	59,808	58,192	52,448	50,542	52,789
Arizona	245,668	254,192	264,693	270,469	281,069	293,318	304,357	319,850
Arkansas	102,951	107,287	109,226	114,456	117,953	119,081	121,275	124,918
California	1,965,886	2,036,297	2,131,199	2,223,892	2,358,920	2,510,167	2,619,639	2,746,873
Colorado	253,374	262,719	272,799	286,835	305,456	315,621	323,762	342,748
Connecticut	234,528	234,233	239,462	240,975	244,612	253,467	257,038	260,827
Delaware	57,471	59,937	60,628	61,109	66,298	69,893	70,927	73,541
District of Columbia	103,831	107,738	109,685	111,890	116,400	121,688	125,871	131,010
Florida	735,098	741,455	764,136	794,644	834,123	890,884	930,375	967,337
Georgia	412,485	424,126	439,058	454,238	479,138	505,693	532,657	554,269
Hawaii	68,225	70,017	72,532	74,630	77,035	81,900	84,904	88,136
Idaho	55,258	56,744	58,105	60,854	63,309	65,670	68,616	71,886
Illinois	653,476	679,776	711,370	721,876	751,333	778,353	796,906	820,362
Indiana	282,259	291,570	299,996	311,150	326,049	333,436	345,207	359,122
Iowa	141,697	148,843	158,246	162,305	171,406	180,511	186,200	190,191
Kansas	128,542	136,884	140,964	143,471	148,368	151,677	154,806	157,797
Kentucky	165,974	171,835	177,046	181,135	185,843	190,832	195,527	202,507
Louisiana	232,596	236,248	241,378	234,608	243,647	242,059	237,598	246,264
Maine	51,456	51,490	52,580	53,348	55,456	57,242	59,475	61,404
Maryland	313,952	324,830	332,500	339,443	351,047	365,162	380,805	393,632
Massachusetts	402,652	417,283	434,098	442,090	459,774	490,402	505,689	527,455
Michigan	385,021	399,437	416,701	429,644	445,253	470,289	486,874	504,967

## State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Minnesota	269,937	282,397	292,920	304,063	317,648	326,221	338,746	351,113
Mississippi	95,810	96,968	101,351	103,523	104,570	106,207	109,034	111,707
Missouri	255,865	257,225	266,245	275,911	282,535	291,764	297,074	304,898
Montana	38,375	41,187	42,349	43,229	45,101	46,179	46,478	48,098
Nebraska	92,231	99,935	101,973	106,765	112,170	116,111	118,945	121,774
Nevada	121,713	124,445	125,440	128,205	133,071	142,081	148,216	156,313
New Hampshire	64,159	65,214	66,948	68,558	71,302	75,162	77,843	80,516
New Jersey	489,130	493,343	514,662	531,072	542,774	563,616	576,228	591,743
New Mexico	86,079	89,261	90,146	90,834	94,579	92,987	93,242	97,090
New York	1,204,688	1,229,743	1,301,041	1,330,236	1,391,549	1,458,253	1,500,152	1,547,116
North Carolina	416,008	427,974	438,350	454,945	475,282	502,077	518,378	538,291
North Dakota	36,202	42,164	52,493	54,965	59,518	56,253	53,328	55,493
Ohio	498,989	528,567	550,299	564,683	595,299	611,350	624,372	649,127
Oklahoma	149,913	163,868	174,305	186,007	198,636	189,612	181,480	189,160
Oregon	191,120	199,929	196,973	196,594	202,116	215,940	227,032	236,219
Pennsylvania	596,662	615,411	637,896	659,792	685,695	709,722	723,962	752,071
Rhode Island	49,351	49,716	50,997	52,187	53,748	56,197	57,507	59,458
South Carolina	164,106	170,193	174,567	181,556	191,149	202,807	210,876	219,093
South Dakota	38,176	42,253	43,056	44,560	45,641	47,231	48,652	49,928
Tennessee	252,478	263,175	278,298	288,012	298,803	317,325	332,094	345,218
Texas	1,243,398	1,344,733	1,437,893	1,536,472	1,612,973	1,611,958	1,601,517	1,696,206
Utah	117,714	124,031	128,018	133,274	141,090	149,515	157,404	165,526
Vermont	26,633	27,676	28,195	28,690	29,420	30,299	31,292	32,197
Virginia	420,862	429,174	441,144	449,235	459,242	479,669	491,221	508,662
Washington	359,694	370,149	388,922	405,561	427,242	453,186	476,934	506,353
West Virginia	67,255	70,945	70,969	72,082	73,731	72,583	72,569	76,794



## State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Wisconsin	252,875	262,463	272,420	281,569	291,258	303,826	314,247	324,061
Wyoming	39,103	41,499	40,201	40,968	41,521	39,474	37,925	40,286
Puerto Rico	98,381	100,352	101,565	102,450	102,446	103,144	105,035	NA
NA = not available								
<i>Science and Engineering Indicators 2018</i>								