

## State Indicators

# S-46 Academic R&D per \$1,000 of Gross Domestic Product

---

## Description

---

This indicator represents the ratio of R&D expenditures at a state's colleges and universities to the size of the state's economy. Academic R&D performers account for slightly more than half of basic research, about one-third of total research (basic plus applied), and roughly 15% of all R&D conducted in the United States. Academic R&D can be a valuable basis for future economic development, and many R&D-intensive institutions of higher learning view regional economic development as an integral part of their mission.

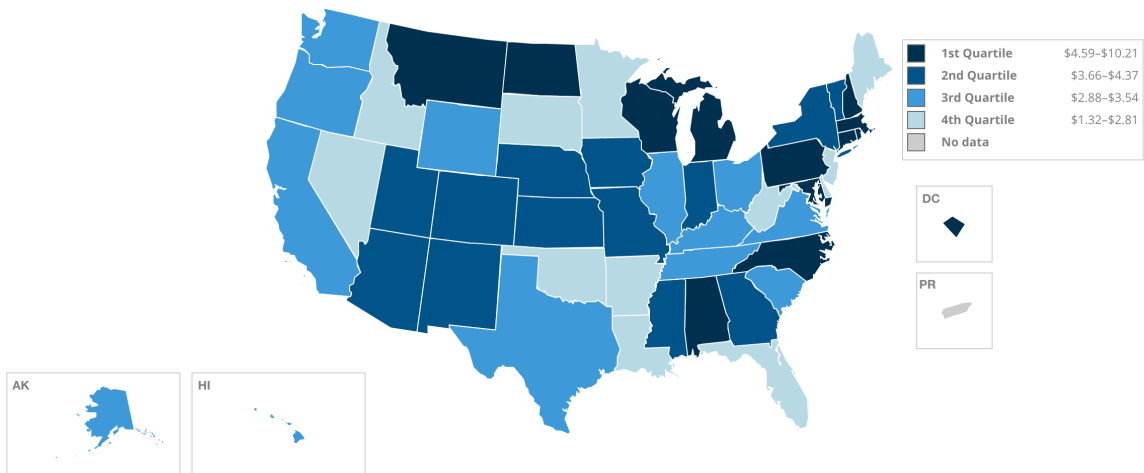
Data on academic R&D are provided by the National Center for Science and Engineering Statistics Higher Education Research and Development Survey and represent R&D at U.S. colleges and universities with over \$150,000 in R&D expenditures.

Data sources: National Science Foundation, National Center for Science and Engineering Statistics, Academic Research and Development Expenditures; U.S. Bureau of Economic Analysis, Gross Domestic Product data; Government of Puerto Rico, Office of the Governor, Gross Domestic Product data.

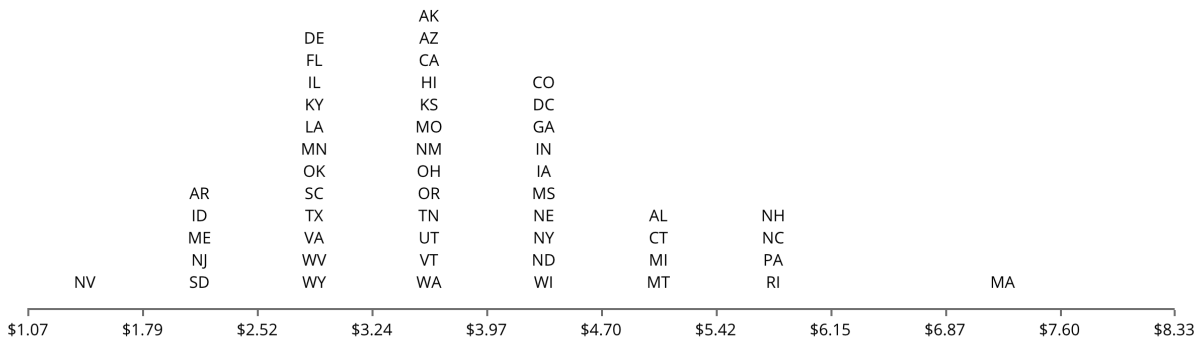
# State Indicators

## S-46 Academic R&D per \$1,000 of Gross Domestic Product

2017



### Distribution of states across indicator values, 2017



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

### Academic R&D per \$1,000 of Gross Domestic Product

(Dollars)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	3.60	3.65	3.63	3.58	3.56	3.68	3.97	4.10	4.21	4.07
Alabama	4.13	3.92	3.81	3.70	3.91	4.20	4.61	4.85	4.97	4.47
Alaska	4.47	4.19	3.86	3.84	3.48	2.98	3.43	3.34	3.16	2.99
Arizona	3.28	3.26	3.22	3.13	3.05	3.30	3.73	3.85	3.92	3.93
Arkansas	2.46	2.36	2.44	2.61	2.60	2.60	2.58	2.60	2.63	2.65
California	3.59	3.72	3.61	3.56	3.55	3.66	4.00	3.98	4.04	3.94
Colorado	3.65	3.91	3.84	3.65	3.66	3.75	4.44	4.66	4.92	4.91
Connecticut	3.29	3.31	3.25	3.21	3.01	3.17	3.33	3.79	4.04	3.95
Delaware	2.17	2.22	2.23	2.23	2.25	2.45	2.38	2.93	3.15	3.07
District of Columbia	4.25	4.21	4.01	3.76	4.05	4.22	3.59	4.53	4.58	4.57
Florida	2.21	2.27	2.27	2.23	2.30	2.43	2.63	2.71	2.87	2.85
Georgia	3.58	3.46	3.39	3.33	3.46	3.85	4.01	4.10	4.26	4.29
Hawaii	3.85	4.61	4.22	4.34	4.34	4.29	4.76	4.66	4.73	4.63
Idaho	2.61	2.72	2.60	2.24	2.12	2.07	2.28	2.29	2.51	2.52
Illinois	3.24	3.24	3.19	3.10	3.05	3.23	3.49	3.40	3.46	3.32
Indiana	3.46	3.82	3.36	3.54	3.67	3.89	4.28	4.20	4.36	4.35
Iowa	4.79	4.65	4.59	4.61	4.40	3.92	4.18	4.99	4.87	4.54
Kansas	3.49	3.65	3.73	3.37	3.28	3.38	3.77	3.76	3.73	3.74
Kentucky	3.10	3.46	3.33	3.35	3.47	3.37	3.52	3.47	3.47	3.31
Louisiana	3.38	3.39	3.04	2.79	3.02	3.18	3.37	3.07	3.08	2.90
Maine	2.01	2.24	2.11	2.53	2.89	3.04	3.11	2.67	2.72	2.28
Maryland	9.07	9.30	9.10	9.22	8.98	9.42	10.12	10.00	10.52	10.10
Massachusetts	6.03	6.31	6.35	6.21	6.04	6.22	6.75	6.83	7.07	7.41

## State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	3.81	3.86	3.89	3.95	3.99	4.40	5.13	5.28	5.41	5.33
Minnesota	2.43	2.36	2.36	2.51	2.55	2.74	3.05	3.08	3.18	2.95
Mississippi	4.58	4.70	4.51	4.50	4.67	4.38	4.65	4.63	4.75	4.70
Missouri	4.05	4.02	4.10	3.98	4.03	3.90	4.09	4.25	4.36	4.13
Montana	5.75	5.80	5.93	5.59	5.26	5.37	5.44	5.42	4.74	4.65
Nebraska	4.75	4.82	5.10	4.80	4.63	4.62	4.73	4.34	4.13	4.30
Nevada	1.71	1.57	1.53	1.54	1.49	1.53	1.56	1.43	1.33	1.22
New Hampshire	5.02	5.26	5.15	5.38	5.11	5.06	4.97	4.85	5.52	5.47
New Jersey	1.90	1.99	2.06	1.92	1.88	1.85	1.98	2.20	2.31	2.16
New Mexico	4.92	4.39	4.98	5.56	5.20	4.95	5.39	4.91	4.54	4.45
New York	3.45	3.56	3.61	3.63	3.66	3.67	3.75	4.11	4.30	4.11
North Carolina	4.57	4.49	4.74	4.48	4.83	4.85	5.39	5.93	6.24	6.12
North Dakota	6.09	6.55	6.11	6.10	5.91	5.59	5.75	5.64	5.01	4.11
Ohio	3.13	3.05	3.42	3.51	3.68	3.82	4.06	4.11	4.20	3.87
Oklahoma	2.85	2.54	2.42	2.23	2.14	2.22	2.47	2.67	2.71	2.51
Oregon	3.81	3.87	3.99	3.75	3.72	3.66	3.91	3.64	3.70	3.67
Pennsylvania	4.52	4.68	4.80	4.73	4.47	4.64	4.87	5.24	5.39	5.08
Rhode Island	4.59	4.86	4.94	5.60	5.29	5.56	5.75	8.69	9.24	9.71
South Carolina	3.45	3.44	3.50	3.54	3.63	3.64	3.91	4.02	3.65	3.65
South Dakota	1.78	1.96	2.25	2.29	2.35	2.49	3.02	3.44	3.23	3.00
Tennessee	3.03	3.13	3.32	3.23	3.29	3.35	3.57	3.72	3.86	3.68
Texas	3.41	3.26	3.21	3.10	2.99	3.11	3.54	3.55	3.47	3.23
Utah	4.90	4.84	4.31	3.98	3.63	3.72	4.50	4.78	5.06	4.86
Vermont	5.03	5.13	5.01	5.12	4.74	4.64	4.92	4.99	4.96	4.26
Virginia	2.64	2.69	2.69	2.67	2.64	2.81	2.83	2.85	3.24	3.13
Washington	3.41	3.37	3.09	3.26	2.96	3.12	3.26	3.78	4.06	3.79

## State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	2.82	2.80	2.80	2.71	2.94	2.93	2.92	2.90	2.97	2.85
Wisconsin	4.65	4.79	4.82	4.78	4.73	4.88	5.22	5.28	5.50	5.45
Wyoming	2.83	2.56	3.05	2.75	2.20	1.79	2.15	1.41	1.39	1.63
Puerto Rico	1.07	1.11	1.22	1.22	1.23	1.21	1.19	1.27	1.63	1.49

NA = not available

**Note(s):**

Academic R&D is reported for institutions with R&D over \$150,000. The national total for the United States includes U.S. territories. 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, Higher Education Research and Development Survey (various years), data as of November 2018; 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. "Academic R&D per \$1,000 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/academic-rd-per-1000-state-gdp>

Last updated: March 4, 2019

*Science and Engineering Indicators 2018*

## State Indicators

### Academic R&D per \$1,000 of Gross Domestic Product

(Dollars)

State	2013	2014	2015	2016	2017
United States	4.02	3.86	3.79	3.86	3.90
Alabama	4.40	4.19	4.49	4.65	4.76
Alaska	3.08	3.00	3.11	3.31	3.34
Arizona	3.94	3.73	3.75	3.82	3.79
Arkansas	2.57	2.42	2.46	2.46	2.50
California	3.76	3.56	3.45	3.39	3.36
Colorado	4.37	4.03	4.04	4.26	4.27
Connecticut	4.40	4.34	4.31	4.58	4.81
Delaware	3.23	2.91	2.74	2.79	2.78
District of Columbia	4.69	4.67	4.60	4.42	4.59
Florida	2.73	2.72	2.64	2.72	2.71
Georgia	4.31	4.07	4.05	4.07	4.22
Hawaii	4.61	4.35	4.06	3.75	3.42
Idaho	2.36	2.26	2.23	2.26	2.27
Illinois	3.47	3.10	3.06	3.01	3.05
Indiana	4.29	4.01	3.97	4.08	4.07
Iowa	4.40	4.51	4.20	4.37	4.37
Kansas	3.80	3.69	3.71	3.61	3.66
Kentucky	3.04	2.87	2.71	2.80	2.88
Louisiana	2.86	2.73	2.74	2.88	2.81
Maine	1.96	2.25	1.80	1.69	2.00
Maryland	10.11	10.18	10.25	9.98	10.21
Massachusetts	7.99	7.61	7.49	7.51	7.45

## State Indicators

State	2013	2014	2015	2016	2017
Michigan	5.28	5.04	4.96	5.07	5.27
Minnesota	2.96	2.89	2.85	2.84	2.76
Mississippi	4.03	3.93	3.84	4.17	4.29
Missouri	3.89	3.72	3.68	3.77	3.77
Montana	4.30	4.02	3.93	4.20	4.77
Nebraska	4.17	4.05	4.00	4.05	4.22
Nevada	1.20	1.15	1.11	1.29	1.32
New Hampshire	5.17	5.13	4.76	4.88	5.66
New Jersey	2.21	2.08	1.96	2.01	2.12
New Mexico	4.45	4.36	4.20	4.03	3.85
New York	4.15	4.05	3.91	4.05	4.11
North Carolina	6.02	5.92	5.61	5.67	5.72
North Dakota	3.99	3.73	3.87	4.25	4.61
Ohio	3.84	3.63	3.52	3.51	3.54
Oklahoma	2.26	2.11	2.21	2.69	2.68
Oregon	3.58	3.49	3.33	3.34	3.31
Pennsylvania	5.09	4.85	4.73	5.46	5.56
Rhode Island	9.18	8.33	8.07	8.05	5.57
South Carolina	3.57	3.43	3.28	3.26	3.19
South Dakota	2.63	2.30	2.19	2.20	2.26
Tennessee	3.58	3.79	3.39	3.29	3.43
Texas	3.13	3.04	3.12	3.28	3.24
Utah	5.17	4.92	4.91	3.64	3.69
Vermont	4.22	3.89	3.95	3.86	3.81
Virginia	3.16	3.01	2.94	2.98	3.05
Washington	3.85	3.60	3.42	3.45	3.44

## State Indicators

State	2013	2014	2015	2016	2017
West Virginia	2.73	2.65	2.74	2.74	2.74
Wisconsin	5.04	4.84	4.52	4.64	4.64
Wyoming	1.60	1.24	1.44	2.95	3.10
Puerto Rico	1.32	1.20	1.23	1.15	NA

NA = not available

**Note(s):**

Academic R&D is reported for institutions with R&D over \$150,000. The national total for the United States includes U.S. territories. 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, Higher Education Research and Development Survey (various years), data as of November 2018; 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. "Academic R&D per \$1,000 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/academic-rd-per-1000-state-gdp>

Last updated: March 4, 2019

*Science and Engineering Indicators 2018*



## State Indicators

### Academic R&D

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	41,470,419	44,838,918	47,535,201	49,645,341	51,590,017	54,113,750	57,288,415	61,286,610	65,274,393	65,729,007
Alabama	554,802	576,521	596,795	609,011	663,704	724,434	775,495	847,072	898,422	830,538
Alaska	143,214	147,504	154,827	171,769	171,304	165,419	173,275	180,888	185,942	181,983
Arizona	631,804	666,186	732,529	777,374	798,534	846,889	904,518	944,795	997,700	1,039,424
Arkansas	193,464	201,117	220,108	247,598	252,716	259,319	252,883	267,405	282,628	289,364
California	5,464,639	6,121,719	6,382,226	6,692,497	6,948,312	7,258,240	7,654,804	7,832,767	8,225,420	8,401,638
Colorado	726,361	797,656	845,831	846,245	899,200	954,653	1,098,369	1,180,741	1,292,081	1,338,888
Connecticut	603,186	662,731	682,638	709,879	712,775	754,792	777,963	888,949	945,705	946,289
Delaware	106,002	116,258	118,500	124,624	128,160	135,355	136,712	168,511	188,765	185,842
District of Columbia	309,281	332,978	335,236	328,913	375,849	410,798	353,613	470,217	493,469	501,534
Florida	1,318,499	1,452,692	1,591,032	1,663,216	1,767,837	1,821,138	1,900,270	1,994,860	2,125,648	2,179,352
Georgia	1,219,918	1,261,173	1,316,268	1,347,317	1,446,604	1,586,486	1,621,789	1,691,603	1,808,679	1,882,308
Hawaii	189,179	247,593	247,304	269,258	283,121	286,335	310,909	317,942	330,838	335,704
Idaho	106,163	118,521	122,432	114,400	115,779	115,708	122,952	126,433	142,364	146,326
Illinois	1,718,978	1,808,816	1,872,580	1,923,148	1,970,628	2,078,089	2,229,062	2,224,414	2,352,326	2,362,224
Indiana	779,613	911,581	824,121	907,994	992,586	1,062,868	1,121,868	1,186,421	1,271,364	1,306,462
Iowa	510,819	548,968	566,308	589,725	604,836	540,023	572,589	706,667	724,608	718,281
Kansas	335,913	362,475	390,840	382,485	402,368	432,378	467,821	482,901	511,048	527,122
Kentucky	396,849	469,355	478,403	509,947	539,199	535,357	549,484	575,277	596,081	586,240
Louisiana	527,633	581,677	607,063	578,846	631,793	696,448	710,810	713,675	727,510	699,228
Maine	84,972	100,475	97,810	122,144	142,789	151,762	156,851	137,516	139,983	120,072
Maryland	2,065,756	2,295,139	2,401,367	2,560,392	2,574,067	2,775,603	3,046,289	3,139,254	3,416,687	3,359,741
Massachusetts	1,901,380	2,083,540	2,190,198	2,240,760	2,286,853	2,396,215	2,605,290	2,749,926	2,949,264	3,214,549
Michigan	1,435,104	1,476,554	1,536,123	1,561,189	1,603,566	1,691,493	1,863,341	2,031,479	2,161,520	2,219,505

## State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	525,964	546,607	576,425	626,377	659,452	724,319	787,190	831,754	898,741	864,938
Mississippi	338,225	365,503	368,187	388,585	427,380	425,439	435,382	443,625	460,962	476,078
Missouri	831,030	867,723	918,611	925,821	970,240	976,250	1,023,460	1,087,432	1,121,330	1,098,287
Montana	147,941	162,502	181,677	183,924	189,230	198,408	196,351	207,827	195,267	196,721
Nebraska	318,108	340,785	374,439	372,538	379,214	392,446	411,458	400,660	412,756	438,303
Nevada	157,065	165,129	181,440	197,772	197,292	196,206	187,293	174,247	165,437	153,325
New Hampshire	259,483	285,693	295,083	322,281	313,309	310,721	309,144	311,455	359,839	366,337
New Jersey	778,942	845,485	911,981	894,242	903,958	909,965	952,714	1,075,872	1,141,570	1,113,109
New Mexico	313,033	309,026	370,768	433,485	420,572	427,599	446,632	422,868	405,339	400,952
New York	3,125,424	3,407,899	3,693,992	3,912,982	4,074,240	4,083,370	4,303,252	4,948,442	5,288,932	5,352,978
North Carolina	1,426,580	1,491,674	1,691,637	1,734,153	1,917,917	2,012,492	2,199,367	2,465,260	2,668,842	2,681,840
North Dakota	135,208	152,276	150,457	161,049	170,859	181,736	186,956	204,049	211,057	215,642
Ohio	1,343,126	1,376,347	1,598,115	1,684,329	1,814,571	1,881,426	1,948,462	2,051,857	2,221,827	2,128,968
Oklahoma	301,301	289,126	302,551	307,486	311,467	347,400	354,187	400,731	444,722	437,180
Oregon	486,057	551,434	587,992	613,188	636,260	662,924	707,287	696,272	739,733	722,421
Pennsylvania	2,062,670	2,264,187	2,432,395	2,489,745	2,501,878	2,686,049	2,797,547	3,128,420	3,315,363	3,239,240
Rhode Island	187,131	212,309	225,432	269,061	254,121	263,423	274,425	428,738	459,321	495,366
South Carolina	453,702	469,378	502,518	535,147	581,846	589,863	626,918	660,415	620,533	636,534
South Dakota	49,986	59,195	70,497	74,496	82,673	92,695	110,765	131,165	136,305	129,200
Tennessee	619,538	683,007	756,414	772,059	799,767	833,211	880,214	938,237	1,016,915	1,025,283
Texas	2,841,525	2,967,749	3,174,489	3,374,033	3,531,505	3,869,656	4,133,121	4,416,323	4,661,517	4,651,322
Utah	389,699	415,043	407,345	422,667	421,283	431,877	509,920	562,349	627,180	622,244
Vermont	107,504	116,217	117,986	124,581	117,673	118,252	125,516	132,792	137,303	120,226
Virginia	818,696	890,582	967,688	1,011,655	1,036,170	1,122,656	1,151,996	1,199,244	1,390,412	1,379,440
Washington	880,465	912,394	915,619	1,033,902	1,023,805	1,105,007	1,134,279	1,358,061	1,502,284	1,475,365
West Virginia	131,576	138,839	149,650	153,904	172,977	183,605	186,213	194,834	210,899	202,118



## State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	953,218	1,035,326	1,089,834	1,125,974	1,152,638	1,193,124	1,279,464	1,335,621	1,442,933	1,483,983
Wyoming	60,054	60,054	83,742	89,707	80,041	76,711	79,684	55,319	57,549	65,611
Puerto Rico	80,888	88,868	102,432	106,368	110,198	112,913	114,408	125,123	163,853	151,532

*Science and Engineering Indicators 2018*

## State Indicators

### Academic R&D

State	2013	2014	2015	2016	2017
United States	67,013,138	67,196,537	68,550,653	71,795,275	75,174,941
Alabama	837,871	812,803	898,010	949,683	1,005,133
Alaska	184,472	174,431	163,012	167,308	176,424
Arizona	1,065,136	1,047,329	1,099,837	1,162,283	1,213,469
Arkansas	294,572	285,691	293,494	298,497	312,533
California	8,357,891	8,404,097	8,657,121	8,888,706	9,225,998
Colorado	1,253,466	1,232,376	1,273,753	1,378,920	1,461,877
Connecticut	1,059,367	1,062,741	1,091,381	1,176,170	1,254,440
Delaware	197,262	193,242	191,704	197,615	204,221
District of Columbia	524,241	543,149	559,222	555,721	601,551
Florida	2,171,626	2,272,556	2,354,871	2,527,456	2,617,802
Georgia	1,956,245	1,950,990	2,046,068	2,168,071	2,340,410
Hawaii	343,802	335,189	332,233	318,134	301,204
Idaho	143,728	142,772	146,700	154,989	163,093
Illinois	2,501,413	2,327,098	2,382,947	2,400,990	2,503,276
Indiana	1,336,343	1,308,856	1,323,824	1,408,862	1,462,495
Iowa	714,366	773,760	758,796	814,031	830,587
Kansas	545,364	547,813	562,254	559,279	577,566
Kentucky	550,941	533,834	516,754	546,527	582,404
Louisiana	671,580	665,754	662,778	683,125	691,888
Maine	104,573	124,688	103,102	100,351	122,740
Maryland	3,433,145	3,573,167	3,741,687	3,799,639	4,020,423
Massachusetts	3,532,767	3,500,516	3,673,620	3,796,681	3,927,934
Michigan	2,267,080	2,242,864	2,334,031	2,468,498	2,662,045

## State Indicators

State	2013	2014	2015	2016	2017
Minnesota	901,404	919,257	928,999	961,040	968,784
Mississippi	416,772	410,543	408,232	454,983	479,122
Missouri	1,074,632	1,050,665	1,074,115	1,119,296	1,149,385
Montana	185,996	181,127	181,680	195,125	229,206
Nebraska	444,917	454,744	464,664	481,383	513,581
Nevada	153,427	153,571	157,528	191,155	205,761
New Hampshire	354,296	365,537	357,665	379,991	455,859
New Jersey	1,173,474	1,130,474	1,106,186	1,158,998	1,253,256
New Mexico	403,776	412,428	390,913	375,368	374,131
New York	5,519,542	5,638,584	5,700,230	6,075,419	6,359,672
North Carolina	2,739,920	2,814,943	2,814,924	2,937,671	3,081,568
North Dakota	219,115	222,032	217,926	226,572	255,942
Ohio	2,168,267	2,158,565	2,152,796	2,193,019	2,299,112
Oklahoma	420,067	419,653	419,602	488,559	506,458
Oregon	704,764	705,688	719,881	759,243	781,305
Pennsylvania	3,361,374	3,328,851	3,356,723	3,950,378	4,179,810
Rhode Island	479,162	447,469	453,291	462,777	331,467
South Carolina	648,137	655,757	665,319	687,110	699,199
South Dakota	117,361	104,962	103,368	106,941	112,916
Tennessee	1,032,124	1,133,373	1,077,068	1,091,835	1,183,795
Texas	4,813,050	4,898,443	5,036,366	5,254,298	5,495,483
Utah	688,972	693,796	733,407	573,106	611,015
Vermont	121,110	114,549	119,663	120,650	122,634
Virginia	1,419,504	1,381,078	1,411,176	1,462,939	1,551,003
Washington	1,561,573	1,537,190	1,548,580	1,645,843	1,740,919
West Virginia	196,492	195,675	199,167	199,164	210,259



## State Indicators

State	2013	2014	2015	2016	2017
Wisconsin	1,419,426	1,409,714	1,372,168	1,458,791	1,503,746
Wyoming	65,490	51,422	56,996	112,056	125,032
Puerto Rico	135,659	123,285	126,792	120,619	113,868

*Science and Engineering Indicators 2018*

## 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

*Science and Engineering Indicators 2018*

## 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>								