

State Indicators

S-42 Federal R&D Obligations per Employed Worker

Description

This indicator represents how federal R&D obligations are disbursed geographically relative to the size of a state's employed civilian workforce. Federal R&D dollars are attributed to the states in which the recipient organizations are located.

Information about federal obligations for R&D come from the National Center for Science and Engineering Statistics' Survey of Federal Funds for Research and Development, which is the primary source of information about federal funding for R&D in the United States. The survey is an annual census completed by the federal agencies that conduct R&D programs. The Department of Defense (DOD) disburses the most federal R&D funding, approximately 50% of the total. The geographic distribution of DOD funding to industry, mostly for development, reflects the location of prime contractors only, not the subcontractors who perform much of the R&D. A high value may indicate the existence of many large prime contractors or major federally funded R&D facilities in a state. Higher values for this indicator occur in the states surrounding the District of Columbia and in less populated states with national laboratories or federal facilities.

Employed workforce data are estimates of employed civilians based on Local Area Unemployment Statistics from the Bureau of Labor Statistics (BLS). BLS assigns workers to a location based on residence. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

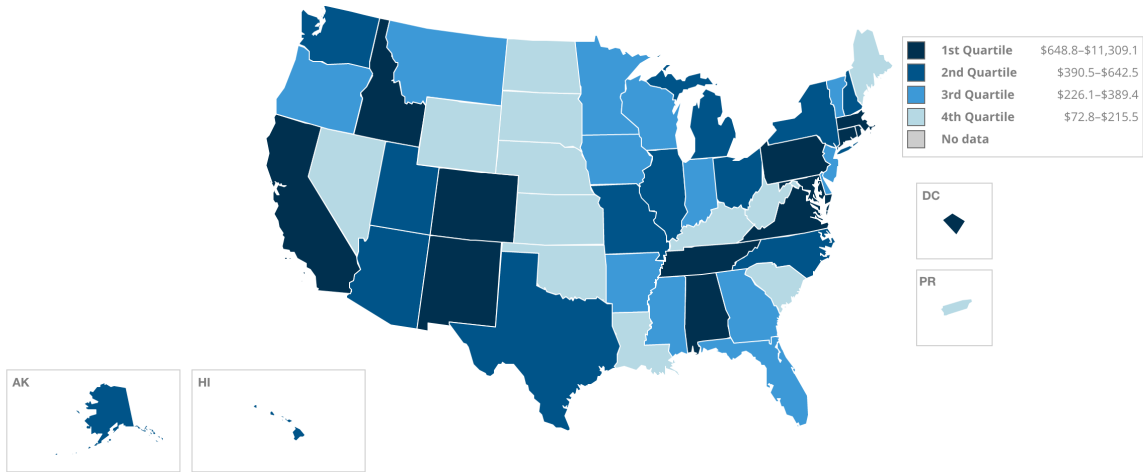
This indicator may be biased in areas where workers cross state lines for their place of employment, which receives the obligations.

Data sources: National Science Foundation, National Center for Science and Engineering Statistics, Federal Funds for Research and Development; U.S. Department of Labor, Bureau of Labor Statistics, Local Area Unemployment Statistics.

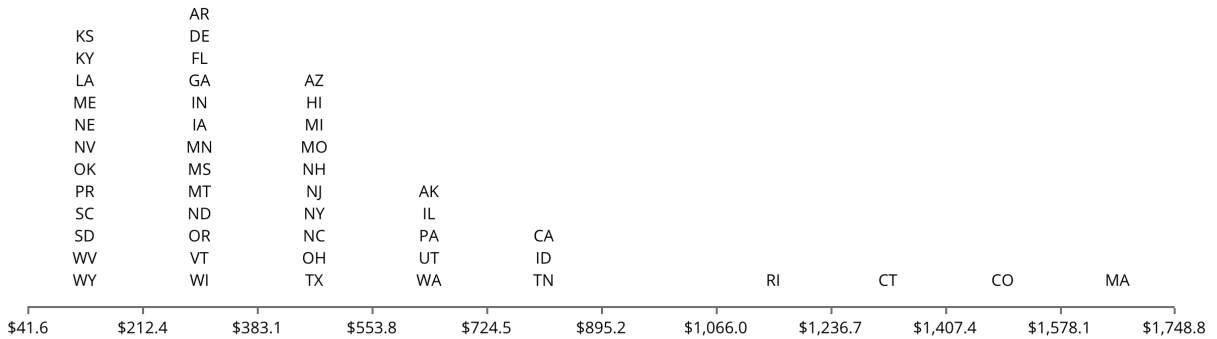
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2016



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

Federal R&D Obligations per Employed Worker

(Dollars)

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	518.2	503.0	534.2	539.2	526.8	524.6	512.9	518.5	526.5	541.5
Alabama	1,015.3	1,047.0	1,184.5	1,157.6	957.0	993.5	1,101.9	1,092.1	985.8	886.2
Alaska	364.4	406.2	355.3	339.9	562.9	343.8	326.1	343.6	362.5	386.8
Arizona	349.8	304.4	368.4	293.4	405.2	427.7	327.5	332.3	434.9	472.7
Arkansas	81.3	82.1	64.2	71.6	77.1	82.9	125.2	80.9	82.8	88.9
California	1,139.2	1,037.8	1,152.6	1,077.2	806.8	896.9	885.2	928.7	804.9	1,002.9
Colorado	1,129.5	1,584.7	852.7	734.6	694.5	514.4	619.2	626.0	599.8	633.2
Connecticut	295.3	391.0	342.3	311.5	442.5	549.5	485.4	508.4	415.7	384.5
Delaware	82.4	123.1	124.0	157.0	137.7	156.4	176.1	131.6	118.9	135.7
District of Columbia	5,167.6	6,556.0	7,536.4	8,613.9	8,690.7	10,064.6	9,781.5	8,582.2	8,341.5	8,552.6
Florida	386.1	361.1	463.6	442.3	447.2	359.3	435.0	474.1	382.8	310.4
Georgia	117.3	150.1	794.0	927.9	1,628.4	1,245.7	1,139.0	1,037.2	883.3	507.0
Hawaii	186.5	202.8	269.5	201.8	253.8	252.3	264.4	267.4	291.2	348.5
Idaho	700.8	585.7	602.1	582.9	410.2	371.3	418.7	342.1	345.2	324.1
Illinois	171.5	174.0	166.0	171.5	189.1	189.1	184.9	190.0	191.2	212.7
Indiana	136.4	144.2	137.5	184.1	138.5	142.5	147.4	136.3	124.8	136.6
Iowa	134.6	149.2	134.8	144.2	146.9	138.4	137.5	146.9	151.9	169.8
Kansas	95.6	68.4	73.0	69.4	66.1	93.3	163.1	192.1	113.3	139.0
Kentucky	58.5	74.9	43.3	51.2	52.2	41.6	44.4	50.3	117.5	78.5
Louisiana	69.1	92.5	96.0	87.1	117.6	93.4	123.1	111.1	115.7	113.3
Maine	66.3	95.7	101.4	111.9	142.0	88.5	91.1	110.2	169.5	234.5
Maryland	2,154.8	2,267.5	2,338.8	2,902.2	2,621.6	2,852.6	2,586.4	2,787.1	3,015.2	3,034.6
Massachusetts	992.8	1,077.7	1,108.5	1,202.9	1,064.7	1,096.3	1,030.5	1,082.3	963.9	963.8

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Michigan	190.5	185.2	205.8	199.5	170.6	149.9	152.6	155.0	156.7	170.5
Minnesota	231.9	197.9	194.9	186.3	193.7	227.5	266.7	235.1	305.5	330.3
Mississippi	431.1	212.9	233.6	229.0	218.6	177.6	210.9	241.5	232.1	288.0
Missouri	432.2	237.9	294.9	288.6	863.9	588.7	457.8	403.5	334.1	330.6
Montana	81.6	121.2	183.7	173.9	139.3	152.6	148.2	185.2	186.6	216.9
Nebraska	94.9	93.5	86.4	93.4	100.2	96.4	99.4	92.4	93.7	103.2
Nevada	759.4	749.5	681.7	567.1	456.3	462.8	299.2	328.4	314.4	284.9
New Hampshire	248.1	344.7	274.2	409.9	367.7	351.8	437.4	444.0	419.0	444.0
New Jersey	415.9	447.6	442.2	383.1	366.4	336.4	322.4	326.5	360.3	649.9
New Mexico	3,465.7	2,997.8	3,211.2	3,272.7	2,592.1	2,625.0	2,592.8	2,507.1	2,413.9	2,619.2
New York	354.9	380.6	382.5	316.2	331.7	318.7	304.1	293.0	299.0	310.7
North Carolina	185.6	202.1	206.9	208.7	208.3	230.9	220.0	234.8	239.5	256.6
North Dakota	174.3	145.1	180.2	162.3	153.0	143.8	136.9	155.1	153.5	180.5
Ohio	408.4	340.5	365.6	374.1	331.4	340.2	313.6	346.1	1,018.7	669.5
Oklahoma	113.2	93.1	88.4	81.8	97.2	106.9	91.2	103.8	112.4	103.8
Oregon	124.6	152.4	157.4	154.2	179.3	178.2	190.0	193.5	207.8	240.8
Pennsylvania	376.5	390.6	328.5	467.4	359.1	430.4	339.8	329.6	326.2	328.2
Rhode Island	795.0	916.0	805.0	1,028.7	906.5	1,074.2	1,195.0	806.6	759.3	759.5
South Carolina	139.1	151.6	103.1	102.1	114.9	98.4	104.6	91.3	101.0	113.8
South Dakota	47.1	66.7	69.3	76.1	72.4	70.6	92.5	109.8	118.5	98.6
Tennessee	363.9	325.3	289.9	283.3	265.2	224.8	212.9	214.6	230.8	250.0
Texas	433.1	284.5	345.4	298.5	415.6	452.2	381.1	387.4	428.2	394.5
Utah	556.8	528.3	371.3	331.0	340.8	377.4	350.3	308.7	370.9	282.1
Vermont	146.7	197.7	177.7	209.6	160.9	173.0	151.9	158.3	178.8	188.7
Virginia	879.8	925.8	1,014.0	1,062.7	1,142.4	1,029.5	1,400.1	1,463.3	1,380.5	1,670.2
Washington	654.8	520.5	368.7	351.9	376.5	430.2	425.4	432.4	429.3	445.2

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
West Virginia	167.1	256.3	240.9	295.8	298.4	398.3	345.8	260.2	327.7	301.7
Wisconsin	109.7	118.9	120.7	133.7	132.6	122.0	117.2	116.0	116.0	132.3
Wyoming	256.7	133.3	183.5	209.8	154.3	145.6	154.1	117.4	136.7	140.5
Puerto Rico	NA	NA	NA	NA	48.9	43.4	46.4	52.0	57.9	63.6

NA = not available

Note(s):

Eleven agencies are required to report federal R&D obligations: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. These obligations represent approximately 98% of total federal R&D obligations. Federal R&D obligations are reported in current dollars. United States total includes obligations for U.S. territories and for which the location of performance cannot be determined. Workforce represents the employed component of the civilian labor force and is reported as annual data not seasonally adjusted. The national workforce total reported for the United States includes Puerto Rico.

Source(s):

National Science Foundation, National Center for Science and Engineering Statistics, Federal Funds for Research and Development (various years), data as of July 2018; U.S. Department of Labor, Bureau of Labor Statistics, Local Area Unemployment Statistics (various years), data as of February 2018.

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Last updated: March 4, 2019

Science and Engineering Indicators 2018

State Indicators

Federal R&D Obligations per Employed Worker

(Dollars)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	538.2	598.2	667.2	733.9	784.8	819.7	822.8	853.2	856.5	987.8
Alabama	820.4	1,224.2	1,379.9	1,611.8	1,506.5	1,516.3	1,056.7	1,075.9	1,354.9	1,570.8
Alaska	518.7	846.1	991.1	1,306.4	1,480.2	1,543.4	649.7	803.5	668.6	745.4
Arizona	477.9	764.2	905.9	925.0	995.6	1,076.6	858.7	830.4	840.5	1,115.0
Arkansas	96.6	154.3	117.6	121.5	119.6	129.3	125.0	137.0	111.7	136.7
California	924.3	802.7	1,191.8	1,252.6	1,181.3	1,203.9	1,602.1	1,593.9	1,183.0	1,667.8
Colorado	609.7	630.7	749.0	742.0	864.0	930.1	872.1	1,090.6	1,032.1	1,530.0
Connecticut	468.2	808.0	1,659.7	1,225.2	1,258.8	1,403.8	1,112.9	1,193.8	1,022.9	1,358.2
Delaware	175.5	205.3	201.4	240.0	222.4	227.2	264.8	305.0	339.6	561.1
District of Columbia	8,335.8	9,545.6	10,979.5	10,458.9	11,573.1	14,084.6	14,081.4	14,051.7	56,719.6	14,016.2
Florida	302.2	361.7	332.0	366.7	405.6	308.4	384.2	464.0	265.2	458.3
Georgia	651.8	840.7	542.2	510.0	449.8	502.6	390.0	366.8	303.0	454.0
Hawaii	403.8	747.1	744.0	715.8	827.3	985.7	611.8	611.1	568.1	660.7
Idaho	345.6	325.4	364.2	334.4	431.7	413.3	416.0	393.1	495.9	561.7
Illinois	241.0	298.5	291.3	329.3	316.9	352.6	321.5	338.7	347.6	462.0
Indiana	169.3	189.1	178.8	190.3	185.7	187.1	189.8	194.9	220.9	387.2
Iowa	177.9	231.8	294.7	325.5	351.9	312.6	343.7	414.2	394.6	432.6
Kansas	165.2	230.2	216.5	197.9	207.7	257.0	209.9	223.7	210.0	328.3
Kentucky	134.6	199.4	175.4	134.1	135.5	157.4	125.4	115.6	132.8	172.8
Louisiana	129.1	144.3	230.0	240.0	233.1	230.9	169.8	215.7	204.9	210.8
Maine	381.2	695.0	395.7	256.7	321.4	440.5	342.3	567.3	253.3	303.5
Maryland	3,247.4	3,477.6	2,705.5	2,914.2	4,557.6	4,459.0	4,473.5	4,152.2	4,630.5	5,662.8
Massachusetts	1,404.9	1,382.4	1,514.0	1,701.8	1,851.6	2,047.1	2,118.0	2,303.8	2,110.5	2,836.9

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	202.0	246.5	266.7	362.8	237.5	248.4	360.1	370.5	412.1	573.3
Minnesota	292.7	329.1	422.1	316.8	302.8	278.1	447.9	500.0	503.6	571.4
Mississippi	331.5	340.0	522.6	968.7	1,297.5	359.6	460.2	354.5	356.4	334.8
Missouri	317.4	323.8	437.1	473.3	1,077.5	1,475.8	456.4	423.9	390.9	464.3
Montana	237.2	307.5	254.5	292.1	412.7	391.6	317.7	1,349.9	329.9	367.5
Nebraska	113.3	157.6	167.3	181.3	225.7	206.3	189.5	242.3	213.8	232.9
Nevada	267.3	341.7	321.3	384.8	492.5	505.5	353.7	252.7	245.7	466.4
New Hampshire	534.4	704.1	465.5	756.2	612.6	734.0	566.5	477.4	412.1	656.9
New Jersey	480.0	407.7	515.0	510.0	549.4	601.9	512.9	515.5	514.2	602.2
New Mexico	2,749.0	3,543.9	3,482.7	3,688.9	3,944.6	4,124.4	3,727.1	3,868.8	3,881.7	4,250.2
New York	342.9	405.1	438.9	505.3	511.2	592.0	591.4	590.6	508.9	705.8
North Carolina	266.6	353.2	356.6	405.9	418.8	441.5	418.4	425.2	414.0	494.7
North Dakota	192.7	234.8	319.3	323.2	319.0	343.3	336.9	325.4	273.6	286.2
Ohio	389.6	548.1	431.5	538.9	507.8	534.5	484.3	647.1	462.4	841.9
Oklahoma	144.2	200.7	171.7	357.9	310.1	246.3	164.6	153.0	155.1	223.9
Oregon	271.3	306.2	297.0	303.2	296.3	375.4	285.8	277.8	318.0	362.2
Pennsylvania	409.3	471.3	552.9	685.2	634.9	619.0	549.3	554.1	536.8	730.2
Rhode Island	801.9	842.8	959.2	1,066.0	1,211.7	1,654.5	1,143.6	1,155.3	1,223.9	1,345.6
South Carolina	130.3	170.1	202.1	244.1	202.9	255.4	189.4	210.2	226.9	346.3
South Dakota	97.3	137.3	145.2	134.3	170.1	169.0	180.1	144.0	176.4	187.1
Tennessee	301.6	380.6	419.9	411.4	507.1	519.8	517.3	653.3	592.2	761.6
Texas	304.2	318.6	353.1	531.6	532.6	492.9	549.0	611.7	452.9	547.8
Utah	277.2	378.9	410.3	709.4	1,011.9	866.9	661.2	748.6	529.4	923.0
Vermont	223.6	345.8	414.0	607.5	1,245.4	775.7	306.9	319.1	357.7	450.4
Virginia	1,408.4	1,406.7	1,730.2	1,864.0	1,999.4	2,327.7	2,332.8	2,321.9	2,337.8	2,441.5
Washington	463.8	605.8	708.7	843.3	771.2	856.9	1,294.8	1,464.9	1,318.5	1,294.3

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	308.2	489.3	337.8	518.8	425.5	1,075.9	393.3	283.1	288.8	349.6
Wisconsin	146.7	169.7	208.1	228.6	224.1	226.5	218.1	228.6	224.8	312.5
Wyoming	136.7	142.8	153.0	164.1	180.1	140.8	132.8	131.4	166.6	231.7
Puerto Rico	69.8	80.4	116.7	94.7	83.8	83.0	77.7	69.7	71.5	87.2

NA = not available

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(Dollars)

State	2010	2011	2012	2013	2014	2015	2016
United States	983.5	936.5	946.9	848.1	867.6	840.5	738.3
Alabama	1,769.8	2,613.6	2,575.3	2,338.3	2,225.1	2,239.9	2,117.3
Alaska	706.5	581.0	468.5	545.8	402.0	611.7	625.7
Arizona	1,236.9	1,061.3	866.3	847.8	557.9	554.9	507.1
Arkansas	146.3	143.0	148.1	136.4	154.3	83.5	238.5
California	1,692.0	1,400.5	1,086.3	954.1	910.5	862.1	870.6
Colorado	1,748.8	1,521.8	1,474.3	1,316.8	1,357.9	1,291.5	1,491.6
Connecticut	1,262.5	1,389.5	1,289.8	1,465.0	1,294.1	1,282.7	1,309.3
Delaware	324.5	279.8	263.0	271.8	304.4	243.3	313.9
District of Columbia	12,408.4	9,561.6	10,058.6	11,415.6	11,405.0	11,684.0	11,309.1
Florida	383.5	296.5	274.3	260.2	272.6	322.1	296.8
Georgia	361.7	333.5	260.6	258.8	283.8	262.6	277.2
Hawaii	646.6	655.9	628.8	561.5	512.0	468.8	427.5
Idaho	691.4	613.3	626.2	526.3	806.3	699.9	725.9
Illinois	443.2	483.8	400.5	390.7	391.7	405.7	633.5
Indiana	347.4	312.2	288.5	235.2	254.3	218.2	226.1
Iowa	576.3	442.8	390.6	351.4	314.5	346.3	302.4
Kansas	249.1	263.8	165.4	166.5	131.4	135.7	131.0
Kentucky	155.8	129.9	162.9	162.3	158.3	158.5	141.8
Louisiana	172.3	312.6	162.3	141.8	141.1	125.2	139.4
Maine	255.4	279.4	381.1	258.0	199.5	211.3	206.5
Maryland	5,594.2	5,484.0	5,374.3	5,338.1	5,729.6	5,600.5	5,445.3
Massachusetts	2,741.5	2,411.1	1,930.6	1,736.7	1,864.6	1,772.6	1,591.7

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	598.4	512.9	519.6	423.9	420.2	400.4	390.5
Minnesota	390.5	344.5	345.6	334.2	332.5	283.1	294.3
Mississippi	360.1	486.5	452.9	487.8	510.8	413.4	372.1
Missouri	416.5	427.8	398.8	374.9	362.9	443.5	428.1
Montana	300.0	389.5	399.4	278.4	349.7	307.3	337.6
Nebraska	253.1	273.4	268.8	204.6	239.2	221.5	209.5
Nevada	323.3	400.3	394.0	468.4	397.1	299.1	212.3
New Hampshire	504.2	582.9	700.7	421.0	473.8	477.1	515.1
New Jersey	692.2	624.1	520.9	413.7	466.3	381.8	389.4
New Mexico	3,880.6	4,017.4	3,921.2	3,979.4	4,292.8	4,084.6	4,222.7
New York	638.8	577.7	537.6	516.6	509.9	499.9	514.5
North Carolina	522.7	495.6	452.8	407.4	427.1	420.9	412.1
North Dakota	328.5	313.7	228.3	227.0	199.6	203.6	215.5
Ohio	781.2	675.6	650.3	458.5	457.0	487.3	457.0
Oklahoma	260.7	277.2	263.2	153.7	184.6	257.3	197.5
Oregon	380.9	394.1	354.9	300.5	333.4	298.6	278.6
Pennsylvania	849.8	766.4	625.3	552.2	613.7	610.3	648.8
Rhode Island	1,331.1	1,224.6	1,113.9	962.5	1,082.2	996.4	1,195.4
South Carolina	345.8	255.2	279.7	196.4	229.1	209.3	211.5
South Dakota	178.8	145.4	149.2	132.8	159.6	167.1	157.4
Tennessee	753.9	667.4	739.0	749.0	716.4	800.0	829.0
Texas	613.3	474.7	475.5	434.3	378.5	446.2	415.9
Utah	1,367.3	1,394.7	748.6	684.9	889.4	810.4	642.5
Vermont	421.5	367.7	306.5	307.4	346.9	245.7	247.2
Virginia	2,360.3	2,106.3	2,048.9	1,623.8	1,902.4	1,858.3	1,811.0
Washington	1,238.9	1,570.4	864.6	1,066.3	1,088.4	705.9	601.8

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	422.2	323.2	352.3	230.3	282.8	329.0	197.2
Wisconsin	282.7	261.3	257.0	227.7	240.4	237.2	240.4
Wyoming	129.4	128.7	259.8	141.1	156.1	183.4	149.0
Puerto Rico	89.3	94.9	69.8	82.6	72.8	66.7	72.8

NA = not available

Note(s):

Eleven agencies are required to report federal R&D obligations: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. These obligations represent approximately 98% of total federal R&D obligations. Federal R&D obligations are reported in current dollars. United States total includes obligations for U.S. territories and for which the location of performance cannot be determined. Workforce represents the employed component of the civilian labor force and is reported as annual data not seasonally adjusted. The national workforce total reported for the United States includes Puerto Rico.

Source(s):

National Science Foundation, National Center for Science and Engineering Statistics, Federal Funds for Research and Development (various years), data as of July 2018; U.S. Department of Labor, Bureau of Labor Statistics, Local Area Unemployment Statistics (various years), data as of February 2018.

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Last updated: March 4, 2019

Science and Engineering Indicators 2018

State Indicators

Federal R&D obligations

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	62,105,164	59,865,395	64,089,709	65,743,825	65,820,093	66,700,114	66,292,393	68,510,176	70,710,427	73,798,199
Alabama	1,805,418	1,863,182	2,151,670	2,149,352	1,819,210	1,931,323	2,178,776	2,213,683	2,013,282	1,806,956
Alaska	90,744	102,740	92,966	92,692	157,317	96,924	93,334	99,928	107,231	115,015
Arizona	591,743	516,763	638,209	535,274	800,199	902,338	706,673	732,065	993,463	1,116,946
Arkansas	85,720	85,866	68,848	79,185	88,868	97,702	148,166	95,296	97,448	106,422
California	16,249,348	14,488,289	15,999,143	14,883,737	11,250,614	12,600,156	12,658,120	13,730,886	12,222,581	15,600,123
Colorado	1,888,344	2,694,164	1,479,238	1,343,392	1,356,420	1,049,208	1,277,553	1,340,231	1,336,289	1,438,682
Connecticut	509,770	672,726	578,332	522,181	733,512	900,719	798,866	846,458	699,372	655,191
Delaware	28,294	41,782	43,065	56,160	50,441	57,746	64,865	48,964	45,214	52,255
District of Columbia	1,593,071	1,943,712	2,185,196	2,488,783	2,483,607	2,755,369	2,574,139	2,232,284	2,229,794	2,451,606
Florida	2,343,430	2,181,144	2,832,290	2,775,255	2,906,709	2,391,836	2,957,866	3,326,418	2,754,904	2,284,405
Georgia	364,102	466,521	2,512,567	3,035,313	5,546,365	4,366,021	4,137,785	3,919,868	3,443,943	2,023,240
Hawaii	99,980	112,594	150,654	113,005	140,305	139,291	147,574	150,722	164,525	198,808
Idaho	326,071	279,091	299,457	303,689	227,773	210,964	244,579	205,660	212,747	200,672
Illinois	957,190	959,374	921,924	963,774	1,088,601	1,107,430	1,094,284	1,140,163	1,160,119	1,316,085
Indiana	363,620	378,703	367,003	513,647	403,611	426,330	439,766	410,398	377,735	413,864
Iowa	186,744	209,833	194,674	215,777	223,823	212,096	213,370	228,180	235,818	264,060
Kansas	116,394	83,647	91,235	87,858	84,823	120,388	212,035	255,490	154,775	191,603
Kentucky	96,494	122,406	71,706	86,668	90,125	73,079	78,597	91,291	216,657	146,845
Louisiana	121,184	163,562	169,580	152,635	210,534	170,087	228,730	211,036	223,555	219,218
Maine	39,730	57,093	60,568	65,239	82,113	53,075	56,711	68,683	105,733	150,569
Maryland	5,332,073	5,570,728	5,779,695	7,238,474	6,659,458	7,343,723	6,730,700	7,328,787	7,966,775	8,094,369
Massachusetts	2,982,785	3,146,435	3,227,932	3,551,660	3,201,828	3,337,816	3,192,130	3,437,516	3,113,843	3,129,401
Michigan	810,799	772,631	876,267	877,983	771,000	683,187	707,914	735,059	755,864	839,757

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	529,763	455,713	456,392	445,536	475,059	570,248	679,503	609,395	806,083	885,141
Mississippi	471,653	230,551	255,695	259,827	255,878	209,714	250,633	289,791	280,366	351,571
Missouri	1,064,308	587,882	733,542	726,344	2,272,589	1,606,215	1,267,840	1,130,148	933,679	928,681
Montana	30,933	45,792	71,548	69,050	57,041	63,810	63,042	79,347	81,146	95,446
Nebraska	76,445	76,143	71,143	78,477	86,496	84,680	88,454	82,981	85,042	94,089
Nevada	484,725	495,981	465,781	406,159	347,665	368,914	253,235	295,042	294,697	279,129
New Hampshire	145,144	196,262	156,135	237,604	218,891	213,243	268,476	278,697	269,466	291,723
New Jersey	1,601,600	1,698,150	1,646,784	1,422,848	1,385,692	1,297,664	1,272,576	1,318,793	1,459,570	2,661,153
New Mexico	2,311,310	2,018,739	2,211,251	2,309,611	1,894,083	1,959,948	1,954,981	1,933,123	1,892,068	2,068,291
New York	2,960,839	3,086,307	3,058,737	2,538,016	2,678,717	2,585,904	2,504,851	2,471,013	2,560,514	2,689,016
North Carolina	618,646	673,840	700,671	719,115	734,323	831,620	821,457	900,344	922,731	1,007,518
North Dakota	53,061	43,733	54,230	50,329	49,610	47,359	46,178	53,015	52,088	59,947
Ohio	2,088,529	1,729,901	1,863,371	1,921,720	1,736,435	1,809,958	1,681,723	1,879,784	5,563,023	3,687,855
Oklahoma	162,639	131,536	126,054	117,908	142,117	158,691	138,258	160,356	176,173	165,818
Oregon	175,584	216,459	226,514	229,375	279,164	283,411	308,179	319,587	348,626	408,099
Pennsylvania	2,074,560	2,125,645	1,794,428	2,566,507	1,983,386	2,394,246	1,921,246	1,893,723	1,886,497	1,907,139
Rhode Island	391,133	433,843	386,339	495,591	433,825	514,632	583,158	403,844	385,759	391,717
South Carolina	230,851	250,369	172,130	173,173	198,537	173,217	186,659	166,607	188,704	215,941
South Dakota	15,730	22,516	23,886	26,896	26,481	26,501	35,041	41,955	46,003	38,951
Tennessee	824,964	732,230	666,025	674,420	671,291	582,499	558,572	566,242	621,184	684,712
Texas	3,496,785	2,321,396	2,872,956	2,546,214	3,654,279	4,068,928	3,493,457	3,640,162	4,112,458	3,853,339
Utah	437,693	429,097	313,996	298,829	324,888	368,829	351,719	319,851	393,350	305,019
Vermont	42,471	56,096	51,314	62,143	48,465	52,950	47,089	49,885	57,656	61,707
Virginia	2,733,490	2,908,999	3,231,339	3,402,556	3,726,871	3,392,184	4,576,317	4,849,753	4,671,236	5,750,372
Washington	1,566,979	1,241,102	900,492	878,074	963,816	1,131,625	1,152,903	1,226,154	1,246,867	1,306,757
West Virginia	116,585	177,928	166,380	206,208	212,864	287,939	254,384	193,061	243,344	227,023



State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	271,713	294,511	307,651	350,775	358,252	338,475	331,373	332,214	332,956	377,801
Wyoming	57,363	29,763	41,369	48,234	36,753	35,403	37,477	28,368	33,549	35,219
Puerto Rico	NA	NA	NA	NA	50,502	46,695	51,614	58,943	65,733	72,709

NA = not available

Science and Engineering Indicators 2018

State Indicators

Federal R&D obligations

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	74,301,273	82,618,013	91,815,955	101,366,433	109,732,927	116,585,521	119,302,170	124,900,312	125,091,757	138,977,912
Alabama	1,670,058	2,456,769	2,734,837	3,211,827	3,035,516	3,108,183	2,198,241	2,247,589	2,782,193	3,023,301
Alaska	155,155	254,444	299,873	399,401	461,308	495,147	212,144	263,999	222,163	247,310
Arizona	1,151,925	1,881,000	2,279,229	2,385,404	2,643,735	2,958,775	2,459,645	2,422,351	2,449,176	3,141,545
Arkansas	116,333	183,867	141,267	145,361	146,682	164,975	161,824	177,694	145,265	171,160
California	14,819,382	13,001,687	19,198,496	20,169,641	19,259,424	19,964,268	26,897,630	26,987,180	19,938,653	26,988,821
Colorado	1,398,887	1,450,603	1,728,445	1,735,047	2,068,038	2,264,933	2,188,732	2,797,532	2,668,121	3,862,299
Connecticut	806,228	1,377,388	2,816,662	2,067,969	2,122,540	2,399,563	1,946,644	2,116,827	1,815,401	2,364,526
Delaware	69,867	83,546	80,561	95,399	89,747	94,151	112,658	130,615	144,314	225,170
District of Columbia	2,443,108	2,775,973	3,145,586	2,985,543	3,329,397	4,161,778	4,193,242	4,277,707	17,537,244	4,267,934
Florida	2,286,464	2,774,006	2,542,044	2,854,088	3,265,014	2,590,033	3,346,486	4,078,193	2,290,401	3,734,400
Georgia	2,654,039	3,438,270	2,228,988	2,133,046	1,906,523	2,181,847	1,750,782	1,686,209	1,386,021	1,957,570
Hawaii	234,291	435,685	428,262	413,945	488,209	600,260	380,297	379,219	347,753	387,488
Idaho	217,349	209,344	235,469	217,820	288,538	290,256	300,045	287,474	355,408	387,978
Illinois	1,496,751	1,825,057	1,728,600	1,934,661	1,880,072	2,127,824	2,003,465	2,145,050	2,168,530	2,745,521
Indiana	512,847	568,761	537,582	573,693	556,743	566,818	583,214	596,645	672,029	1,109,218
Iowa	275,560	361,455	463,444	499,484	538,270	487,663	548,687	662,401	634,853	683,222
Kansas	224,013	306,656	290,516	268,669	287,446	357,797	294,492	317,801	300,406	464,230
Kentucky	253,526	370,384	321,535	246,664	251,763	296,308	240,041	222,172	252,464	319,129
Louisiana	249,045	275,788	432,707	453,420	446,722	443,708	322,644	419,401	406,131	405,553
Maine	249,812	450,735	255,596	166,733	210,258	292,125	229,196	378,810	168,009	194,231
Maryland	8,778,541	9,473,728	7,419,965	8,027,300	12,608,595	12,500,835	12,746,621	11,905,814	13,312,685	15,970,508
Massachusetts	4,552,289	4,499,835	4,920,704	5,491,660	5,963,595	6,591,926	6,875,787	7,528,907	6,883,096	9,047,013
Michigan	1,005,043	1,196,424	1,254,129	1,693,104	1,117,762	1,177,007	1,700,258	1,726,084	1,866,491	2,427,422

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	797,334	900,936	1,152,784	866,231	831,259	768,269	1,241,556	1,386,789	1,393,037	1,550,573
Mississippi	413,820	415,671	627,696	1,181,001	1,598,715	438,243	554,898	433,902	435,207	384,647
Missouri	905,875	927,045	1,241,082	1,349,450	3,058,821	4,201,656	1,315,557	1,220,627	1,111,285	1,284,600
Montana	105,359	136,825	113,684	131,213	188,774	182,053	151,336	653,627	159,461	171,494
Nebraska	104,079	145,189	153,805	167,955	210,458	193,069	178,121	230,075	204,579	220,221
Nevada	273,344	360,215	342,532	418,931	554,983	593,264	436,217	321,050	312,624	558,210
New Hampshire	357,828	474,423	312,305	511,948	422,144	513,830	400,408	339,923	294,312	458,369
New Jersey	1,979,346	1,673,959	2,109,112	2,087,600	2,273,723	2,524,843	2,172,700	2,191,960	2,192,726	2,492,168
New Mexico	2,210,494	2,890,565	2,877,019	3,090,089	3,363,175	3,593,366	3,315,034	3,478,018	3,502,888	3,695,553
New York	2,989,719	3,528,344	3,820,559	4,382,460	4,505,321	5,320,079	5,368,152	5,367,562	4,651,187	6,242,013
North Carolina	1,062,536	1,400,937	1,392,981	1,617,325	1,683,581	1,806,115	1,771,359	1,828,443	1,772,567	2,021,757
North Dakota	64,051	77,903	104,707	107,257	108,573	117,921	117,851	115,779	98,326	101,155
Ohio	2,164,645	3,051,142	2,380,350	2,967,071	2,794,181	2,961,450	2,723,931	3,660,876	2,580,353	4,459,527
Oklahoma	232,217	324,002	276,126	570,249	498,478	400,746	271,137	253,227	260,753	369,962
Oregon	468,167	522,640	504,034	514,212	504,810	650,069	510,101	506,417	581,074	635,230
Pennsylvania	2,396,146	2,772,116	3,244,975	3,989,278	3,731,084	3,677,377	3,299,694	3,359,930	3,279,378	4,297,552
Rhode Island	418,037	437,455	501,504	565,592	642,064	888,779	622,502	627,776	643,721	679,453
South Carolina	249,938	314,287	371,006	454,018	384,307	492,735	373,812	421,688	453,003	661,614
South Dakota	38,803	54,941	58,679	54,788	70,036	69,982	75,926	61,925	76,379	79,313
Tennessee	824,300	1,039,488	1,157,221	1,130,563	1,381,987	1,425,989	1,489,072	1,907,931	1,689,925	2,081,442
Texas	3,021,013	3,189,399	3,553,852	5,414,373	5,506,721	5,187,008	5,914,690	6,692,848	5,029,588	6,031,095
Utah	305,980	421,569	457,925	803,382	1,183,694	1,058,179	845,844	991,251	699,929	1,168,540
Vermont	72,030	112,704	136,374	201,149	417,091	262,601	105,544	108,366	120,985	151,369
Virginia	4,961,535	4,995,665	6,175,919	6,709,197	7,298,269	8,746,472	8,994,337	9,088,208	9,282,197	9,381,331
Washington	1,345,649	1,725,258	2,023,273	2,442,177	2,311,260	2,641,154	4,087,134	4,751,106	4,339,544	4,156,709
West Virginia	235,677	376,105	254,239	383,400	315,693	807,540	301,416	219,100	224,575	262,617



State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	420,839	487,948	595,516	658,448	645,875	651,821	635,675	671,413	660,915	885,729
Wyoming	35,059	36,986	39,585	42,979	47,596	37,538	36,169	36,583	47,358	65,152
Puerto Rico	81,016	90,790	135,294	112,225	100,904	101,433	98,790	85,850	84,929	96,101

Science and Engineering Indicators 2018

State Indicators

Federal R&D obligations

State	2010	2011	2012	2013	2014	2015	2016
United States	138,156,480	132,793,598	135,995,441	122,985,240	127,927,192	125,846,297	112,353,933
Alabama	3,476,887	5,202,092	5,159,117	4,716,401	4,483,709	4,537,952	4,331,301
Alaska	235,562	196,455	159,056	185,468	136,904	208,044	211,455
Arizona	3,425,571	2,917,048	2,405,217	2,369,256	1,606,032	1,643,746	1,548,093
Arkansas	181,783	178,642	183,827	167,348	190,883	105,596	307,530
California	27,226,903	22,768,911	18,036,282	16,180,810	15,798,681	15,280,643	15,713,807
Colorado	4,348,333	3,815,539	3,744,745	3,394,037	3,611,357	3,506,388	4,174,799
Connecticut	2,193,459	2,425,968	2,231,082	2,516,608	2,286,990	2,292,751	2,365,428
Delaware	129,091	114,728	108,746	112,268	130,091	108,103	142,028
District of Columbia	3,890,121	3,013,539	3,339,296	3,908,128	3,980,138	4,221,723	4,190,267
Florida	3,142,237	2,481,827	2,355,839	2,282,029	2,447,584	2,932,696	2,781,525
Georgia	1,519,954	1,421,812	1,133,314	1,129,956	1,253,097	1,182,450	1,292,746
Hawaii	389,447	403,574	382,508	347,961	326,464	305,382	283,849
Idaho	478,995	430,212	446,936	380,814	597,925	532,627	567,818
Illinois	2,631,274	2,878,085	2,399,463	2,327,486	2,368,558	2,482,733	3,908,452
Indiana	988,688	903,000	838,297	692,598	771,216	678,315	719,113
Iowa	909,096	695,339	613,269	560,471	512,177	566,975	494,458
Kansas	347,529	367,780	231,602	234,254	187,149	193,687	186,745
Kentucky	287,437	241,959	308,087	306,846	296,742	296,707	270,635
Louisiana	330,803	597,294	313,774	277,976	284,516	253,683	278,529
Maine	163,103	179,969	247,753	169,887	131,091	138,030	137,487
Maryland	15,879,006	15,750,593	15,597,818	15,605,883	16,890,454	16,750,635	16,541,648
Massachusetts	8,747,479	7,758,388	6,279,278	5,690,763	6,268,540	6,055,001	5,524,823
Michigan	2,509,681	2,153,449	2,206,422	1,826,143	1,852,691	1,798,999	1,795,895

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	1,062,556	949,293	961,092	939,742	947,366	817,426	859,102
Mississippi	421,613	588,083	542,610	567,723	589,505	489,008	448,193
Missouri	1,151,046	1,193,266	1,122,803	1,056,305	1,038,637	1,296,254	1,258,348
Montana	139,222	181,657	190,191	134,505	170,536	152,192	168,793
Nebraska	239,814	262,173	261,912	200,523	234,061	216,437	204,819
Nevada	379,814	478,099	481,734	584,582	509,952	394,231	286,183
New Hampshire	350,471	406,012	490,721	296,213	335,944	342,053	373,518
New Jersey	2,852,962	2,582,709	2,166,953	1,726,856	1,968,461	1,631,866	1,676,599
New Mexico	3,337,955	3,456,208	3,378,591	3,421,466	3,714,234	3,542,923	3,659,839
New York	5,602,222	5,042,120	4,727,247	4,605,210	4,580,635	4,566,943	4,733,689
North Carolina	2,151,161	2,060,306	1,922,260	1,759,196	1,880,503	1,892,033	1,898,925
North Dakota	119,582	117,703	88,065	89,515	80,498	82,000	86,580
Ohio	4,098,787	3,554,656	3,436,331	2,425,734	2,454,493	2,638,536	2,491,059
Oklahoma	429,597	462,536	449,813	262,352	316,784	450,232	343,819
Oregon	675,292	711,081	632,076	528,961	601,516	557,536	543,659
Pennsylvania	4,963,404	4,512,982	3,724,886	3,295,421	3,695,262	3,710,488	3,961,113
Rhode Island	669,846	610,133	557,413	486,437	555,287	519,380	627,272
South Carolina	662,206	496,684	555,367	397,477	476,363	446,599	460,869
South Dakota	74,962	61,087	63,168	56,607	68,795	72,781	69,022
Tennessee	2,104,843	1,898,595	2,111,931	2,118,645	2,023,052	2,312,540	2,476,325
Texas	6,896,125	5,475,367	5,619,673	5,234,156	4,678,423	5,574,480	5,282,387
Utah	1,708,887	1,756,403	972,325	918,647	1,221,844	1,143,613	937,676
Vermont	142,251	124,444	103,372	102,954	115,659	81,625	82,431
Virginia	9,111,678	8,287,063	8,129,999	6,487,535	7,651,664	7,487,099	7,369,405
Washington	3,915,467	4,931,381	2,757,414	3,433,474	3,565,308	2,361,715	2,072,841
West Virginia	312,779	239,807	263,276	171,449	208,017	239,451	144,717



State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	795,573	742,243	734,288	654,033	701,052	700,689	722,664
Wyoming	36,720	37,193	75,589	41,207	45,840	53,488	42,474
Puerto Rico	94,795	97,351	71,336	82,563	71,037	65,870	71,796

Science and Engineering Indicators 2018

State Indicators

Employed workers

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	119,842,527	119,007,266	119,976,330	121,939,766	124,933,938	127,139,828	129,259,395	132,122,309	134,293,312	136,288,381
Alabama	1,778,143	1,779,490	1,816,526	1,856,754	1,900,856	1,943,878	1,977,334	2,027,064	2,042,291	2,038,889
Alaska	249,038	252,921	261,624	272,709	279,471	281,889	286,252	290,845	295,823	297,354
Arizona	1,691,876	1,697,675	1,732,327	1,824,253	1,974,779	2,109,900	2,157,966	2,202,911	2,284,323	2,363,084
Arkansas	1,053,833	1,045,529	1,072,508	1,105,538	1,153,107	1,178,835	1,183,048	1,177,521	1,177,122	1,197,320
California	14,264,158	13,960,003	13,880,944	13,817,032	13,944,739	14,048,225	14,300,443	14,784,636	15,184,470	15,555,278
Colorado	1,671,823	1,700,069	1,734,715	1,828,679	1,952,999	2,039,647	2,063,318	2,140,797	2,227,846	2,272,197
Connecticut	1,726,482	1,720,656	1,689,684	1,676,578	1,657,825	1,639,060	1,645,952	1,664,912	1,682,342	1,704,134
Delaware	343,199	339,303	347,253	357,777	366,324	369,200	368,254	372,144	380,250	385,190
District of Columbia	308,281	296,477	289,953	288,925	285,776	273,768	263,163	260,105	267,312	286,650
Florida	6,068,832	6,040,216	6,108,967	6,274,934	6,499,945	6,656,533	6,800,128	7,015,836	7,196,659	7,359,460
Georgia	3,104,564	3,108,166	3,164,618	3,271,285	3,406,072	3,504,765	3,632,917	3,779,217	3,898,825	3,990,393
Hawaii	536,216	555,187	558,936	560,114	552,917	552,009	558,167	563,580	564,957	570,394
Idaho	465,255	476,505	497,372	520,963	555,338	568,218	584,137	601,135	616,282	619,237
Illinois	5,581,864	5,513,326	5,552,539	5,620,733	5,755,545	5,855,655	5,917,463	5,999,611	6,066,484	6,186,543
Indiana	2,666,066	2,626,154	2,669,811	2,789,531	2,915,071	2,991,096	2,983,209	3,011,304	3,026,444	3,029,834
Iowa	1,387,668	1,406,164	1,444,325	1,496,789	1,523,726	1,532,400	1,551,711	1,552,946	1,552,120	1,555,090
Kansas	1,217,887	1,223,430	1,250,194	1,266,875	1,282,791	1,290,159	1,300,384	1,329,751	1,366,403	1,378,867
Kentucky	1,649,657	1,634,245	1,656,436	1,691,208	1,727,832	1,755,029	1,771,621	1,814,492	1,844,022	1,870,873
Louisiana	1,753,951	1,768,610	1,767,337	1,753,214	1,790,627	1,821,954	1,857,715	1,899,922	1,932,134	1,935,457
Maine	599,506	596,503	597,355	583,220	578,254	599,534	622,580	623,530	623,793	642,085
Maryland	2,474,509	2,456,823	2,471,212	2,494,151	2,540,242	2,574,394	2,602,334	2,629,577	2,642,210	2,667,341
Massachusetts	3,004,470	2,919,503	2,912,028	2,952,583	3,007,359	3,044,696	3,097,563	3,176,134	3,230,442	3,247,012
Michigan	4,255,772	4,172,673	4,258,246	4,400,201	4,519,538	4,558,922	4,638,837	4,743,163	4,824,324	4,925,999

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	2,284,147	2,302,626	2,342,262	2,391,535	2,452,054	2,506,965	2,547,696	2,591,975	2,638,721	2,680,029
Mississippi	1,094,036	1,082,959	1,094,539	1,134,735	1,170,396	1,180,514	1,188,212	1,200,208	1,207,745	1,220,702
Missouri	2,462,267	2,471,095	2,487,204	2,517,067	2,630,692	2,728,231	2,769,622	2,800,544	2,794,971	2,809,325
Montana	379,100	377,804	389,391	397,102	409,630	418,081	425,468	428,555	434,868	439,993
Nebraska	805,708	814,020	823,384	840,575	862,936	878,414	889,438	898,310	907,202	911,444
Nevada	638,342	661,785	683,228	716,242	761,851	797,192	846,416	898,496	937,387	979,646
New Hampshire	585,013	569,453	569,430	579,593	595,329	606,153	613,822	627,666	643,056	656,962
New Jersey	3,850,728	3,793,819	3,723,909	3,713,835	3,782,009	3,857,473	3,946,654	4,039,773	4,051,531	4,094,559
New Mexico	666,908	673,403	688,598	705,726	730,712	746,645	754,003	771,069	783,831	789,677
New York	8,343,353	8,108,261	7,997,602	8,026,518	8,075,912	8,112,684	8,237,123	8,432,577	8,562,174	8,654,586
North Carolina	3,333,977	3,333,518	3,386,088	3,446,119	3,524,897	3,601,621	3,733,519	3,834,296	3,851,970	3,927,179
North Dakota	304,436	301,479	300,939	310,061	324,314	329,348	337,412	341,823	339,414	332,180
Ohio	5,114,242	5,080,289	5,097,104	5,136,613	5,239,265	5,320,351	5,362,986	5,431,051	5,460,917	5,508,439
Oklahoma	1,436,914	1,412,364	1,425,792	1,442,202	1,462,579	1,484,470	1,516,423	1,544,175	1,567,803	1,597,894
Oregon	1,408,687	1,420,124	1,439,531	1,487,375	1,557,373	1,590,664	1,621,602	1,651,241	1,677,740	1,694,881
Pennsylvania	5,510,435	5,442,516	5,462,170	5,491,547	5,523,612	5,562,508	5,653,830	5,746,071	5,783,197	5,810,162
Rhode Island	492,002	473,648	479,904	481,774	478,567	479,080	488,009	500,704	508,064	515,760
South Carolina	1,659,997	1,650,987	1,668,893	1,696,624	1,728,300	1,760,567	1,783,783	1,824,147	1,867,808	1,897,056
South Dakota	334,087	337,762	344,908	353,208	365,796	375,564	378,883	382,116	388,291	395,047
Tennessee	2,266,764	2,250,608	2,297,364	2,380,485	2,531,129	2,591,472	2,623,757	2,639,198	2,691,517	2,739,189
Texas	8,073,257	8,160,512	8,317,300	8,530,187	8,793,183	8,997,538	9,165,916	9,395,537	9,603,021	9,767,851
Utah	786,073	812,206	845,770	902,780	953,282	977,294	1,003,979	1,036,156	1,060,663	1,081,276
Vermont	289,509	283,676	288,803	296,457	301,185	306,140	310,043	315,053	322,398	326,979
Virginia	3,107,094	3,142,207	3,186,823	3,201,717	3,262,236	3,295,134	3,268,553	3,314,344	3,383,752	3,443,020
Washington	2,392,891	2,384,323	2,442,480	2,494,999	2,559,932	2,630,220	2,710,214	2,835,517	2,904,286	2,935,202
West Virginia	697,633	694,101	690,770	697,021	713,372	722,870	735,701	741,865	742,528	752,379



State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	2,476,626	2,476,926	2,549,773	2,623,303	2,701,755	2,773,322	2,827,094	2,864,372	2,870,031	2,855,212
Wyoming	223,437	223,326	225,504	229,895	238,226	243,076	243,205	241,684	245,490	250,605
Puerto Rico	971,815	981,845	991,960	1,010,431	1,032,283	1,076,473	1,111,538	1,132,658	1,136,060	1,142,466

Science and Engineering Indicators 2018

State Indicators

Employed workers

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	138,065,585	138,106,700	137,615,237	138,129,001	139,818,439	142,222,731	145,000,042	146,388,400	146,047,745	140,696,561
Alabama	2,035,594	2,006,884	1,981,919	1,992,732	2,014,889	2,049,791	2,080,233	2,089,127	2,053,477	1,924,747
Alaska	299,146	300,731	302,580	305,723	311,643	320,811	326,542	328,579	332,285	331,792
Arizona	2,410,581	2,461,498	2,516,006	2,578,854	2,655,428	2,748,372	2,864,385	2,917,117	2,913,903	2,817,577
Arkansas	1,204,695	1,191,273	1,201,422	1,196,299	1,226,123	1,275,448	1,294,906	1,296,572	1,300,017	1,252,399
California	16,033,179	16,197,671	16,108,685	16,102,840	16,303,996	16,582,651	16,789,422	16,931,590	16,854,482	16,182,572
Colorado	2,294,408	2,300,113	2,307,685	2,338,207	2,393,559	2,435,082	2,509,729	2,565,218	2,585,243	2,524,443
Connecticut	1,721,913	1,704,774	1,697,127	1,687,924	1,686,213	1,709,382	1,749,191	1,773,159	1,774,681	1,740,971
Delaware	398,027	407,033	400,019	397,472	403,599	414,465	425,399	428,312	424,914	401,312
District of Columbia	293,086	290,811	286,496	285,454	287,683	295,484	297,786	304,426	309,192	304,500
Florida	7,565,981	7,669,117	7,656,349	7,783,148	8,049,908	8,398,974	8,709,522	8,789,770	8,637,164	8,148,123
Georgia	4,071,557	4,089,559	4,110,874	4,182,521	4,239,065	4,341,223	4,489,128	4,597,640	4,575,010	4,311,854
Hawaii	580,214	583,187	575,594	578,323	590,156	608,957	621,573	620,535	612,120	586,522
Idaho	628,844	643,280	646,549	651,335	668,441	702,291	721,346	731,235	716,653	690,722
Illinois	6,211,404	6,113,677	5,933,897	5,874,608	5,933,127	6,033,913	6,230,845	6,334,010	6,238,611	5,943,229
Indiana	3,029,073	3,007,507	3,006,811	3,014,655	2,998,068	3,029,959	3,072,113	3,061,042	3,041,828	2,864,985
Iowa	1,548,636	1,559,241	1,572,560	1,534,489	1,529,761	1,560,169	1,596,530	1,599,332	1,608,695	1,579,248
Kansas	1,356,147	1,332,034	1,341,603	1,357,867	1,383,867	1,392,024	1,402,796	1,420,449	1,430,628	1,413,873
Kentucky	1,883,714	1,857,238	1,833,535	1,839,873	1,857,816	1,881,943	1,913,472	1,922,220	1,900,683	1,847,126
Louisiana	1,929,056	1,911,818	1,881,146	1,888,974	1,916,536	1,921,385	1,899,981	1,944,038	1,982,381	1,923,884
Maine	655,349	648,545	645,935	649,571	654,161	663,132	669,554	667,781	663,158	639,954
Maryland	2,703,284	2,724,184	2,742,501	2,754,523	2,766,475	2,803,487	2,849,354	2,867,348	2,874,987	2,820,245
Massachusetts	3,240,245	3,255,134	3,250,085	3,226,981	3,220,838	3,220,089	3,246,316	3,268,096	3,261,408	3,189,010
Michigan	4,976,322	4,854,630	4,702,399	4,667,103	4,705,591	4,738,902	4,721,085	4,658,939	4,529,289	4,233,803

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	2,724,118	2,737,961	2,731,080	2,734,287	2,745,615	2,762,733	2,772,115	2,773,704	2,766,342	2,713,426
Mississippi	1,248,240	1,222,500	1,201,191	1,219,145	1,232,187	1,218,825	1,205,906	1,224,059	1,220,991	1,148,930
Missouri	2,853,891	2,862,838	2,839,467	2,850,987	2,838,872	2,847,006	2,882,757	2,879,647	2,842,845	2,766,711
Montana	444,137	444,909	446,640	449,266	457,423	464,907	476,377	484,189	483,347	466,713
Nebraska	918,370	921,003	919,401	926,315	932,515	935,906	939,874	949,494	956,759	945,648
Nevada	1,022,462	1,054,262	1,066,121	1,088,787	1,126,943	1,173,709	1,233,287	1,270,572	1,272,187	1,196,758
New Hampshire	669,621	673,778	670,880	677,030	689,150	700,026	706,777	712,008	714,104	697,802
New Jersey	4,123,717	4,106,225	4,095,174	4,093,686	4,138,830	4,194,895	4,236,485	4,251,815	4,263,965	4,138,570
New Mexico	804,103	815,642	826,086	837,667	852,612	871,248	889,448	898,998	902,411	869,491
New York	8,718,749	8,709,897	8,705,352	8,672,909	8,812,618	8,986,859	9,077,529	9,088,207	9,139,080	8,844,486
North Carolina	3,986,151	3,966,798	3,906,570	3,984,596	4,019,809	4,091,039	4,234,095	4,300,304	4,281,713	4,087,105
North Dakota	332,407	331,820	327,957	331,852	340,403	343,508	349,821	355,766	359,333	353,455
Ohio	5,556,757	5,567,130	5,516,645	5,505,858	5,502,444	5,541,082	5,624,435	5,657,718	5,580,843	5,297,098
Oklahoma	1,610,099	1,614,572	1,608,106	1,593,521	1,607,421	1,627,110	1,647,098	1,655,490	1,681,081	1,652,023
Oregon	1,725,744	1,706,904	1,697,237	1,695,906	1,703,703	1,731,845	1,785,044	1,822,772	1,827,352	1,753,682
Pennsylvania	5,854,551	5,881,688	5,868,607	5,821,711	5,876,997	5,940,570	6,006,634	6,064,063	6,109,645	5,885,351
Rhode Island	521,313	519,044	522,832	530,567	529,893	537,194	544,357	543,401	525,941	504,951
South Carolina	1,918,583	1,847,939	1,835,823	1,859,765	1,894,141	1,929,233	1,973,337	2,005,686	1,996,409	1,910,670
South Dakota	398,618	400,031	404,239	408,088	411,762	414,209	421,483	430,011	432,925	423,993
Tennessee	2,733,281	2,730,988	2,756,086	2,748,140	2,725,108	2,743,383	2,878,455	2,920,352	2,853,746	2,733,113
Texas	9,929,387	10,011,046	10,065,870	10,185,312	10,338,484	10,523,257	10,774,490	10,941,413	11,104,115	11,008,903
Utah	1,103,807	1,112,607	1,116,067	1,132,554	1,169,795	1,220,617	1,279,328	1,324,060	1,322,089	1,266,009
Vermont	322,129	325,889	329,427	331,122	334,899	338,553	343,865	339,547	338,273	336,104
Virginia	3,522,865	3,551,375	3,569,570	3,599,264	3,650,269	3,757,592	3,855,633	3,914,087	3,970,428	3,842,516
Washington	2,901,492	2,847,875	2,854,762	2,895,863	2,996,795	3,082,399	3,156,626	3,243,308	3,291,309	3,211,649
West Virginia	764,711	768,661	752,548	738,990	741,890	750,561	766,399	773,990	777,560	751,165



State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	2,868,382	2,875,585	2,861,621	2,879,779	2,882,064	2,878,086	2,914,150	2,936,452	2,940,438	2,834,335
Wyoming	256,414	259,089	258,650	261,970	264,321	266,630	272,336	278,486	284,310	281,150
Puerto Rico	1,161,033	1,128,704	1,159,455	1,184,589	1,204,535	1,221,818	1,270,693	1,232,266	1,187,398	1,101,862

Science and Engineering Indicators 2018

State Indicators

Employed workers

State	2010	2011	2012	2013	2014	2015	2016	2017
United States	140,469,137	141,791,252	143,621,629	145,017,558	147,446,670	149,733,742	152,169,824	154,577,363
Alabama	1,964,559	1,990,413	2,003,290	2,017,043	2,015,087	2,025,949	2,045,624	2,073,106
Alaska	333,416	338,161	339,474	339,801	340,585	340,132	337,947	336,806
Arizona	2,769,454	2,748,470	2,776,349	2,794,697	2,878,611	2,962,245	3,052,788	3,151,405
Arkansas	1,242,496	1,249,514	1,241,127	1,226,859	1,237,316	1,265,166	1,289,549	1,304,434
California	16,091,945	16,258,133	16,602,672	16,958,403	17,351,318	17,724,799	18,048,827	18,393,077
Colorado	2,486,404	2,507,265	2,539,941	2,577,556	2,659,474	2,715,059	2,798,928	2,907,468
Connecticut	1,737,449	1,745,967	1,729,838	1,717,764	1,767,282	1,787,434	1,806,575	1,828,858
Delaware	397,869	410,086	413,457	413,119	427,386	444,404	452,434	455,427
District of Columbia	313,508	315,171	331,984	342,351	348,981	361,324	370,521	376,633
Florida	8,193,659	8,371,638	8,588,669	8,770,084	8,979,399	9,104,357	9,373,059	9,680,820
Georgia	4,202,052	4,263,305	4,348,083	4,366,374	4,416,145	4,503,150	4,662,849	4,821,622
Hawaii	602,282	615,319	608,302	619,691	637,661	651,459	664,032	669,241
Idaho	692,826	701,466	713,704	723,636	741,525	761,009	782,279	807,163
Illinois	5,937,047	5,948,366	5,990,644	5,956,749	6,047,243	6,119,271	6,169,560	6,170,676
Indiana	2,845,608	2,891,945	2,905,549	2,944,275	3,032,693	3,109,362	3,180,104	3,203,351
Iowa	1,577,447	1,570,177	1,569,879	1,594,891	1,628,505	1,637,118	1,634,964	1,626,036
Kansas	1,394,958	1,394,082	1,400,122	1,407,217	1,424,016	1,427,731	1,425,413	1,425,216
Kentucky	1,844,650	1,862,928	1,891,162	1,890,879	1,874,516	1,872,326	1,909,158	1,952,066
Louisiana	1,919,852	1,911,021	1,933,137	1,960,539	2,016,083	2,025,661	1,997,358	2,004,003
Maine	638,630	644,085	650,117	658,522	657,066	653,330	665,911	677,141
Maryland	2,838,492	2,872,084	2,902,307	2,923,498	2,947,943	2,990,942	3,037,763	3,086,246
Massachusetts	3,190,818	3,217,754	3,252,531	3,276,792	3,361,811	3,415,874	3,471,112	3,521,482
Michigan	4,194,041	4,198,349	4,246,658	4,308,030	4,409,394	4,493,447	4,599,266	4,657,272

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Minnesota	2,721,194	2,755,264	2,781,141	2,811,762	2,849,017	2,887,683	2,919,097	2,957,838
Mississippi	1,170,879	1,208,747	1,198,196	1,163,752	1,154,058	1,182,779	1,204,481	1,215,115
Missouri	2,763,535	2,789,224	2,815,275	2,817,435	2,861,721	2,923,107	2,939,309	2,936,126
Montana	463,998	466,403	476,174	483,071	487,629	495,298	499,990	504,279
Nebraska	947,360	959,059	974,428	979,937	978,377	977,279	977,622	977,444
Nevada	1,174,774	1,194,264	1,222,710	1,248,122	1,284,292	1,318,024	1,348,265	1,389,372
New Hampshire	695,135	696,532	700,371	703,534	708,977	716,874	725,154	726,607
New Jersey	4,121,455	4,138,464	4,159,986	4,173,828	4,221,267	4,274,695	4,305,516	4,309,706
New Mexico	860,154	860,305	861,617	859,804	865,229	867,387	866,704	872,382
New York	8,769,723	8,728,057	8,793,385	8,913,788	8,984,074	9,136,151	9,200,266	9,249,225
North Carolina	4,115,629	4,157,543	4,245,675	4,318,114	4,402,450	4,495,190	4,608,229	4,716,832
North Dakota	364,053	375,153	385,674	394,392	403,362	402,667	401,671	403,610
Ohio	5,247,050	5,261,238	5,284,001	5,290,609	5,370,560	5,414,872	5,451,315	5,491,174
Oklahoma	1,648,138	1,668,418	1,709,258	1,706,861	1,715,600	1,749,626	1,741,277	1,755,604
Oregon	1,773,076	1,804,320	1,780,790	1,760,302	1,804,417	1,867,407	1,951,218	2,017,292
Pennsylvania	5,840,887	5,888,745	5,957,314	5,967,811	6,021,005	6,080,219	6,105,223	6,111,633
Rhode Island	503,216	498,248	500,434	505,370	513,121	521,255	524,745	529,867
South Carolina	1,915,045	1,945,900	1,985,618	2,023,642	2,079,565	2,134,244	2,179,521	2,213,894
South Dakota	419,355	420,054	423,501	426,284	431,139	435,450	438,377	440,028
Tennessee	2,792,063	2,844,662	2,857,945	2,828,479	2,824,016	2,890,640	2,987,074	3,080,210
Texas	11,244,632	11,535,095	11,818,675	12,052,646	12,360,368	12,493,197	12,702,122	12,960,595
Utah	1,249,814	1,259,337	1,298,807	1,341,192	1,373,801	1,411,194	1,459,309	1,510,208
Vermont	337,488	338,463	337,284	334,964	333,438	332,199	333,399	334,378
Virginia	3,860,386	3,934,326	3,967,987	3,995,182	4,022,160	4,029,043	4,069,139	4,146,134
Washington	3,160,544	3,140,190	3,189,271	3,219,842	3,275,753	3,345,496	3,444,126	3,547,430
West Virginia	740,910	741,972	747,384	744,410	735,511	727,758	733,980	738,309



State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Wisconsin	2,814,393	2,840,996	2,857,418	2,871,997	2,915,848	2,953,622	3,005,478	3,048,242
Wyoming	283,744	289,019	290,932	292,131	293,657	291,686	285,052	281,017
Puerto Rico	1,061,047	1,025,558	1,021,387	999,531	976,224	987,153	986,142	983,264

Science and Engineering Indicators 2018