State Indicators

Table of Contents

Introduction 2

Overview 2

Technical Notes 8

State Indicators 13

State Indicators

Introduction

Overview

Ready access to accurate and timely state-level information is an important tool for formulating effective science and technology (S&T) policies at both the state and national levels. By studying the performance of their peers, state policymakers may be better able to assess their own programs and performance. In addition, data on variations in state S&T activities may alert national policymakers to variations in state and regional needs and circumstances. Corporations and other organizations considering investments at the state level may also benefit from this information. To address the interest of these communities in the role of S&T in state and regional economic development, the Science and Engineering Indicators State Indicators data tool presents findings on state trends in S&T education, employed workforce, R&D, patents and publications, and knowledge-intensive industries.

The State Indicators data tool includes 60 principal indicators for the United States, individual states, the District of Columbia, and Puerto Rico (when available). The data used to calculate the indicators are gathered from public and private sources. Beginning with Science and Engineering Indicators 2018, the State Indicators data tool will be updated periodically in between the biennial Science and Engineering Indicators release as new data become available.

Types of Indicators

The 60 primary indicators are divided into six categories.

1. Elementary and Secondary Education

Indicators in this area cover three topics:

- Student achievement at elementary and secondary levels[1]
- Public school expenditures, including teacher salaries
- Persons with high school credentials

Student achievement is expressed in terms of performance, which refers to the average state score on a standardized test, and proficiency, which is expressed as the percentage of students who have achieved at least an expected level of competence on the test.

State-level performance data for high school students are not available for all states. Performance and proficiency data in mathematics and science are only available for students in grade 12 at the national level. Instead, mastery of college-level material through performance on Advanced Placement Exams has been included as a measure of the skills being developed by high school students.

2. Higher Education

Indicators in this area cover four topics:

- Students enrolled in science, engineering, and technology programs
- Degrees awarded in science, engineering, and technology
- Persons with higher education credentials
- State and student resources supporting higher education

State Indicators

These indicators shed light on the higher education different states provide, the level of educational attainment in states' populations, the cost of college attendance at the undergraduate level, and state support for public universities.

3. Workforce

Indicators in this area cover two topics:

- Higher education credentials of the workforce
- S&E workers in the labor force

Workforce indicators focus on the level of S&E training and occupations of the employed labor force. These indicators reflect the higher education level of a state's labor force, extent of S&E employment, and national origin of S&E workers.

4. Financial Research and Development Inputs

Indicators in this area cover two topics:

- Level of R&D performed by businesses, universities, and other performers
- Public-sector support for R&D activities

Financial indicators present the sources and level of funding for R&D. The indicators show how much R&D is being performed relative to the size of a state's economy and workforce. They also present the extent to which R&D is conducted by industrial and academic performers.

5. Research and Development Outputs

Indicators in this area cover two topics:

- Human capital outputs
- Research-based outputs

These indicators show the number of new doctorates conferred, the publication of academic articles, and patent activity from the academic community and from all sources in the state. Outputs are measured relative to states' S&E workforces, academic workforces, and financial R&D inputs.

6. Science and Technology in the Economy

Indicators in this area cover two topics:

- Business activity in industries with high employment in science, engineering, and technology occupations
- Early-stage, high-risk capital investments

These indicators include venture capital activity, Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) awards, and business activity in industries with high employment in science, engineering, and technology occupations.

Unlike the main Science and Engineering Indicators analyses, the State Indicators data tool presents indicators individually. Indicators are normalized to enable comparisons among states of different sizes, but indicators are presented discretely rather than in a form that describes the relationships among them. Because these indicators span a broad range of topics across the entire S&E landscape—inputs and outputs, people and dollars, businesses and universities, R&D and education—a validated model synthesizing interrelationships among these specific indicators does not exist. Moreover, states are both heterogeneous, with hubs of intense S&E activity alongside areas without substantial S&E infrastructure, and porous, with limited control over movements of people and funds across state borders. Consequently, other regions which form more tightly coupled economic

State Indicators

systems or which create stronger barriers to movement may be preferred by some researchers as units of analysis for studying geographic variation in S&E activity.

Nonetheless, state governments and other state-based actors have significant leverage and can affect S&T-related economic development in their states and regions. The data in the State Indicators data tool offer ample opportunities for exploratory analysis of variations among states and the interplay of education, R&D, and economic activity. The State Indicators data tool enables users to examine the relationships among the different indicators.

Some examples of issues that could be explored with the current set of indicators include the following:

- What is the relationship between K–12 student achievement and the S&E workforce within a state?
- How do state commitments of resources for education at different levels relate to R&D performance?
- Do states whose universities provide advanced S&E training to large numbers of students have correspondingly large segments of their workforces in S&E occupations?
- How do indicators of educational attainment within a state's population relate to R&D performance and high-technology business activity?
- What state characteristics are associated with relatively high investments of tax dollars in S&E?
- Are states whose universities produce more articles and patents also involved in more high-technology business activity?

The data in the State Indicators data tool cannot be expected to provide definitive answers to any of these questions. Additional data, well-defined models, and more refined geographical comparisons will be required as social scientists grapple with these complex relationships. But exploring relationships in the existing data via the State Indicators data tool can stimulate policymakers and other stakeholders to think more broadly and deeply about the possible implications of strategies used to address state-level S&E policy topics.

The State Indicators data tool offers users the following capabilities:

- Long-term trend data on each indicator are available for review and download, giving users the option to combine data from existing indicators to produce new indicators. Visualizations of the trend data—such as quartile maps, histograms, and charts—are also available.
- Standard errors for each indicator, with sample-based data, are available for download where standard error data were available from the data source.
- Financial information can be converted from current into inflation-adjusted dollars.

Data Sources and Considerations

Within the State Indicators data tool, the data tables present the values for the components that make up each indicator. Each table provides a national total, labeled "United States." A few indicators have data that could not be assigned to a specific state but are included in the U.S. total. In addition, some national totals include data for U.S. territories where available. In other indicators, data may not be not available at the state level, because of confidentiality reasons, but are included in the total. Users are cautioned that due to these factors, the national totals may not match a mathematical sum of the displayed values.

The values for most indicators are expressed as ratios or percentages to facilitate comparison between states that differ substantially in size. For example, an indicator of higher education achievement is not defined as the absolute number of degrees conferred in a state because less populous states are unlikely to have or need as extensive a higher education system as states with larger populations. Instead, the indicator is defined as the number of degrees per number of residents in the college-age cohort, which measures the intensity of educational attainment relative to the size of the resident population.

Although data for Puerto Rico are reported whenever available, they were sometimes collected by a different source, making it

State Indicators

unclear whether the methodology used for data collection and analysis is comparable to that used for the states. In those cases, comparisons should be made with caution. Data for U.S. territories and protectorates—such as American Samoa, Guam, Northern Mariana Islands, and U.S. Virgin Islands—are included in the U.S. total where available but are not reported separately.

Users must exercise caution when evaluating the indicator values for the District of Columbia. Frequently, the indicator value for the District of Columbia is appreciably different from the indicator values for any of the states. The District of Columbia is unique because it is an urban region with a large federal presence and many universities. In addition, it has a large student population and provides employment for many individuals who live in neighboring states. Indicator values can be quite different depending on whether data attributed to the District of Columbia are based on where people live or where they work.

Key Elements for Indicators

Data, text, and visual elements are presented in the tool for each indicator. The data table view presents the data back to 1990, if available, plus trend lines for each state, the District of Columbia, and Puerto Rico. The chart view is a graphical representation of each indicator over the years for all states.

A quartile map (map view) provides a geographic view of the indicator for the selected year of data. The map is color coded to show the quartile in which each state placed on that indicator. This visualization helps the user quickly grasp geographic patterns. On the indicator maps, the darkest color indicates states that rank in the first or highest quartile, and the lightest color indicates states that rank in the fourth or lowest quartile. Gray indicates states for which no data are available. The sample map (Figure S-A) shows the outline of each state. Each state is identified by its U.S. Postal Service abbreviation.

The map view also presents a state distribution of each indicator for the selected year of data (Figure S-B). States are listed alphabetically by U.S. Postal Service abbreviation and are centered over the midpoint of the range for their indicator values. Indicator values are presented along the x-axis of the chart. States stacked together have indicator values that are in the same range but are not necessarily identical. To aid in visualizations, outliers are not displayed on histograms. Here, “outlier” is defined as a data point greater than the median plus three times the interquartile range of the most recent year of the data series. The values of the indicators may be viewed on the state map by placing your cursor over the state. All the indicators are broad measures, and several rely on sample estimates that have a margin of error. Small differences in state values generally carry little useful information.

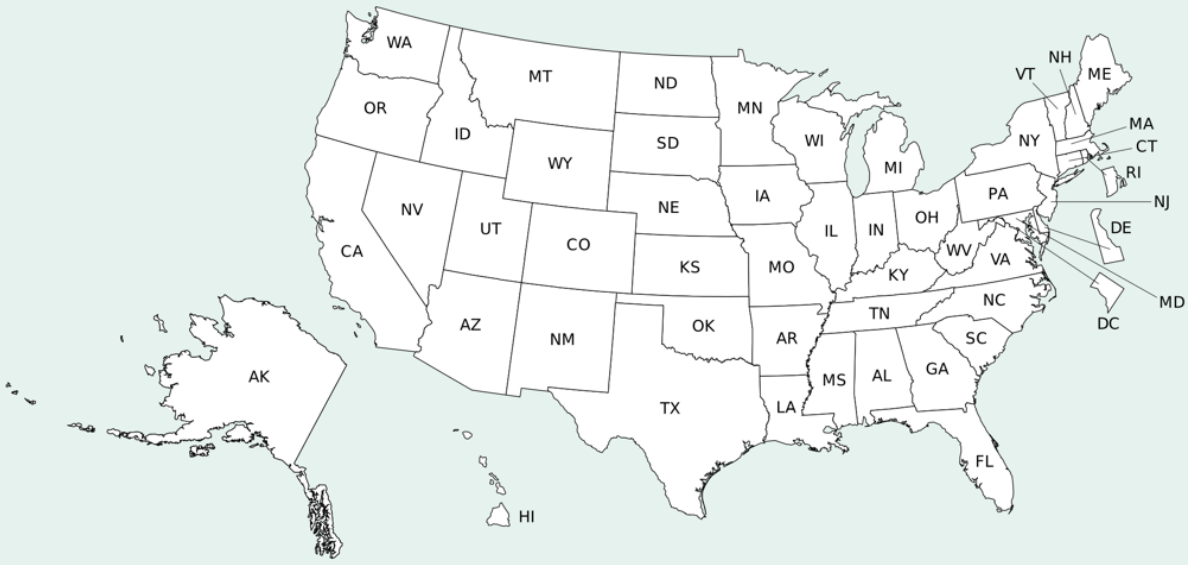
The indicator text presents a description of the data series used to develop each indicator and includes information pertaining to the underlying data and source. Previously, the text view included an analytic findings section that contained a few bulleted sentences describing national and state trends for the particular indicator over the most recent 10-year period. This section is being discontinued to facilitate the periodic update of state-level data in the State Indicators data tool.

For indicators based on sample-based data, the number of states with statistically significant differences will be different than a simple analysis of the table shows. Standard error data for such indicators are available for download where standard error data were available from the data source.

State Indicators

Figure S-A

U.S. map and list of abbreviations



AK..... Alaska	HI .....Hawaii	ME .....Maine	NJ .....New Jersey	SD .....South Dakota
AL ..... Alabama	IA .....Iowa	MI .....Michigan	NM .....New Mexico	TN .....Tennessee
AR..... Arkansas	ID .....Idaho	MN.....Minnesota	NV .....Nevada	TX.....Texas
AZ..... Arizona	IL.....Illinois	MO .....Missouri	NY .....New York	UT.....Utah
CA..... California	IN .....Indiana	MS .....Mississippi	OH.....Ohio	VA.....Virginia
CO ..... Colorado	KS .....Kansas	MT .....Montana	OK.....Oklahoma	VT.....Vermont
CT..... Connecticut	KY .....Kentucky	NC .....North Carolina	OR.....Oregon	WA.....Washington
DC ..... District of Columbia	LA .....Louisiana	ND .....North Dakota	PA.....Pennsylvania	WI.....Wisconsin
DE..... Delaware	MA .....Massachusetts	NE.....Nebraska	RI.....Rhode Island	WV.....West Virginia
FL ..... Florida	MD.....Maryland	NH .....New Hampshire	SC .....South Carolina	WY.....Wyoming
GA ..... Georgia				

Figure S-B

Example state distribution chart

			IN	NC				
			KS	ND				
			KY	NE	OR			
		DC	LA	NH	PA			
		DE	MA	NJ	RI			
	AR	FL	MD	NM	SC			
	AZ	GA	ME	NV	SD			
	CA	HI	MN	NY	TN	VA		
AK	CO	IA	MO	OH	TX	VT	WI	
AL	CT	ID	MS	OK	UT	WA	WV	WY

State Indicators

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Notes

[1] The indicators provide data on fourth grade and eighth grade science and mathematics performance and proficiency.

State Indicators

Technical Notes

The 2018 Science and Engineering Indicators (SEI) State Indicators data tool contains trend data for most indicators. These data are available for download within the data tool and from the State Indicators download page.

1. Standard Errors

The SEI State Indicators data tool contains data compiled from a large number of sources, which can be categorized as follows:

- Data based on censuses. These are complete population counts; therefore, there is no standard error associated with the estimate. Data or tables where standard errors are not applicable are labeled "na."
- Data based on samples. Standard errors for estimates, where available, are provided by the source. The National Assessment of Education Progress (NAEP) data sets are the only data sets with complete standard errors for the time periods included in the State Indicators data tool. Standard errors are incomplete in other data sets based on samples; for example, standard errors are not available prior to 2007 for the Occupational Employment Statistics (OES) survey. The Business R&D Survey (BRDIS) data set has associated standard errors for its values, but some historical values of standard errors are not available due to updates to the estimates but not to the standard errors.
- Data based on statistical models. Standard errors cannot be provided for some estimates due to the estimating techniques of the data source (for example, gross domestic product [GDP] data and Census-based population estimates). Data or tables where standard errors are not available are labeled "NA."
- Data derived directly from the source data set. For data series where the standard error information for the source data is available, approximation formulas for combining sampling errors were used. Because the source data used to derive these estimates are from different independent samples, there is no covariance term included in the formulas.

Standard error tables are provided for download for all State Indicators data where the standard errors are appropriate and available. In some cases, standard error information was not available for a data series. This is noted on the website.

The following formulas were used to estimate standard errors for derived data series.

Sums and differences

Where available for aggregate estimates, such as the total for the United States, sampling errors were collected for the aggregate estimate as provided by the source.

In a few cases, aggregate estimates were calculated from individual parts of the aggregate, and therefore, sampling errors also had to be calculated based on the individual parts of the aggregate. The same formula was also used for computing the standard error for the difference of two estimates. It was assumed that the covariance between the individual parts was negligible.

This formula was used, where applicable, for such roll-ups as national values or occupation categories (e.g., computer science).

$$SE(X \pm Y) = \sqrt{V(X) + V(Y)}, where\ V(X) = SE^2(X).$$

Quotient

This formula was used to calculate the standard errors of the ratios (assuming X and Y are uncorrelated, using the first order Taylor series expansion, which is an approximate but widely used and accepted approach).

State Indicators

$$SE\left(\frac{X}{Y}\right) = \left(\frac{X}{Y}\right)\sqrt{relvar(X) + relvar(Y)}, where\ relvar(X) = \frac{V(X)}{X^2}$$

Relative standard error

Errors for all data from the Occupational Employment Statistics Survey and some data from the Business Research and Development and Innovation Survey were only available as the relative standard error (RSE) or percent relative standard error (PRSE).

$$PRSE = \frac{standard\ error}{estimate} \times 100\%$$

Therefore, to transform the PRSE to standard error, the following equation was used:

$$standard\ error = \frac{estimate \times PRSE}{100\%}$$

2. Constant Dollar Data

The SEI State Indicators data tool presents data as current dollars. To facilitate comparisons over time, the data tool also has an option for presentation of the information as constant dollars in the table and chart views. The data tool uses constant 2009 dollars based on the gross domestic product (GDP). The specific values are from August 2017 adjusted to a calendar-year basis, as prepared by the Bureau of Economic Analysis. The constant dollar adjustment is available in the State Indicators data tool for all financial indicators, except for Indicator S-9 (Public School Teacher Salaries).

Table S-A provides the GDP price deflators used in the State Indicators data tool. These price indices are for the national GDP and are not adjusted for states. The State Indicators tables that are available for download present information as current dollars only. The data in Table S-A can be used to replicate the constant dollar information in the State Indicators data tool. It may also be applied to the standard error tables, as applicable.

3. Statistical Testing

As noted in the overview, indicators based on estimates have associated standard errors, and therefore, small differences in numbers may not be statistically significant.

4. High Science, Engineering, and Technology Employment Industries

To define high science, engineering, and technology (SET) employment industries, this tool uses a modification of the approach employed by the Bureau of Labor Statistics (BLS; Hecker 2005). BLS's approach is based on the intensity of high SET employment within an industry. High SET employment occupations include scientific, engineering, and technician occupations. These occupations employ workers who possess an in-depth knowledge of the theories and principles of science, engineering, and mathematics, which is generally acquired through postsecondary education in some field of technology. An industry is considered a high SET employment industry if employment in technology-oriented occupations accounts for a proportion of that industry's total employment that is at least twice the average for all industries (i.e., 9.8% or higher in 2002, the data that Hecker used). Ideally, this method would be used to develop a list of high SET industries for each year in the State Indicators data tool. However, due to the time required to obtain the data for the custom list, the data tool uses the list Hecker published for all years.

Because the category "high SET employment industries" refers only to private-sector businesses, we excluded "Federal Government, excluding Postal Service" from high-technology industries. Each industry is defined by a four-digit code that is based on the North American Industry Classification System (NAICS). The NAICS classifications are periodically revised, thereby

State Indicators

affecting the trend data presented in the tables. For data years up through 2008, the 2002 NAICS codes were used to define business establishments. Date for 2009 to 2012 use 2007 NAICS codes, and subsequent years use 2012 NAICS codes. Table S-B displays the lists of high-technology industries used for each year in this tool.

5. National Assessment of Education Progress Data by Demographic Characteristics

Additional data on the NAEP science and math scores are provided in the Chapter 1 appendix tables for download. These tables show the NAEP data by sex and race/ethnicity.

6. States Included on the Histogram Display

To aid in visualizations, outliers are not displayed on histograms. Here we define an "outlier" as a data point greater than the median plus 3 times the interquartile range of the most recent year of the data series.

Reference

Hecker D. 2005. High-technology employment: A NAICS-based update. Monthly Labor Review 128(7):57–72.

Table S-A

Calendar-year price deflators State Data Tool, 1990–2017

Year	GDP price deflator (chained) 2009 dollars
1990	0.66773
1991	0.68996
1992	0.70569
1993	0.72248
1994	0.73785
1995	0.75324
1996	0.76699
1997	0.78012
1998	0.78859
1999	0.80065
2000	0.81887
2001	0.83754
2002	0.85039
2003	0.86735
2004	0.89120
2005	0.91988
2006	0.94814
2007	0.97337
2008	0.99246
2009	1.00000
2010	1.01221

State Indicators

Year	GDP price deflator (chained) 2009 dollars
2011	1.03311
2012	1.05214
2013	1.06913
2014	1.08832
2015	1.10012
2016	1.11416
2017	1.13421

GDP = gross domestic product.

NOTE: The base year (= 1.0000) for the constant dollar calculations continues to be 2009, consistent with the current Bureau of Economic Analysis and Office of Management and Budget convention.

SOURCES: Bureau of Economic Analysis, National Economic Accounts, Gross Domestic Product, accessed 21 May 2018.

Science and Engineering Indicators 2018

Table S-B

NAICS codes that constitute high-SET employment industries

2002 NAICS code	2007 NAICS code	2012 NAICS code	Industry
1131	1131	1131	Timber track operations
1132	1132	1132	Forest nurseries and gathering of forest products
2111	2111	2111	Oil and gas extraction
2211	2211	2211	Electric power generation, transmission, and distribution
3241	3241	3241	Petroleum and coal products manufacturing
3251	3251	3251	Basic chemical manufacturing
3252	3252	3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing
3253	3253	3253	Pesticide, fertilizer, and other agricultural chemical manufacturing
3254	3254	3254	Pharmaceutical and medicine manufacturing
3255	3255	3255	Paint, coating, and adhesive manufacturing
3259	3259	3259	Other chemical product and preparation manufacturing
3332	3332	3332	Industrial machinery manufacturing
3333	3333	3333	Commercial and service industry machinery manufacturing
3336	3336	3336	Engine, turbine, and power transmission equipment manufacturing
3339	3339	3339	Other general purpose machinery manufacturing
3341	3341	3341	Computer and peripheral equipment manufacturing
3342	3342	3342	Communications equipment manufacturing
3343	3343	3343	Audio and video equipment manufacturing
3344	3344	3344	Semiconductor and other electronic component manufacturing
3345	3345	3345	Navigational, measuring, electromedical, and control instruments manufacturing
3346	3346	3346	Manufacturing and reproducing magnetic and optical media

State Indicators

2002 NAICS code	2007 NAICS code	2012 NAICS code	Industry
3353	3353	3353	Electrical equipment manufacturing
3364	3364	3364	Aerospace product and parts manufacturing
3369	3369	3369	Other transportation equipment manufacturing
4234	4234	4234	Professional and commercial equipment and supplies, merchant wholesalers
4861	4861	4861	Pipeline transportation of crude oil
4862	4862	4862	Pipeline transportation of natural gas
4869	4869	4869	Other pipeline transportation
5112	5112	5112	Software publishers
5161	na	na	Internet publishing and broadcasting
na	519130	519130	Internet publishing and broadcasting and Web search portals
5171	5171	5171	Wired telecommunications carriers
5172	5172	5172	Wireless telecommunications carriers (except satellite)
5173	na	na	Telecommunications resellers
5174	5174	5174	Satellite telecommunications
5179	5179	5179	Other telecommunications
5181	na	na	Internet service providers and Web search portals
5182	5182	5182	Data processing, hosting, and related services
5211	5211	5211	Monetary authorities, central bank
5232	5232	5232	Securities and commodity exchanges
5413	5413	5413	Architectural, engineering, and related services
5415	5415	5415	Computer systems design and related services
5416	5416	5416	Management, scientific, and technical consulting services
5417	5417	5417	Scientific research and development services
5511	5511	5511	Management of companies and enterprises
5612	5612	5612	Facilities support services
na	561312	561312	Executive search services
8112	8112	8112	Electronic and precision equipment repair and maintenance

na = not applicable.

NAICS = North American Industry Classification System; SET = science, engineering, and technology.

NOTES: Data on high-tech industries for 2008 and earlier years were compiled using the 2002 NAICS codes. Data for 2009 to 2012 were compiled using the 2007 NAICS codes, and subsequent years use 2012 NAICS codes.

Science and Engineering Indicators 2018

State Indicators

S-1 Fourth Grade Mathematics Performance

Description

This indicator represents the average score in mathematics of each state's fourth grade public school students on the National Assessment of Educational Progress (NAEP). The NAEP mathematics assessment is a congressionally authorized measure of student performance that is conducted by the National Center for Education Statistics. The assessment measures students' knowledge and skills in mathematics and their ability to apply that knowledge in the content areas of number properties and operations; measurement; geometry; data analysis, statistics, and probability; and algebra. Student performance is presented in terms of average scores on a scale from 0 to 500.

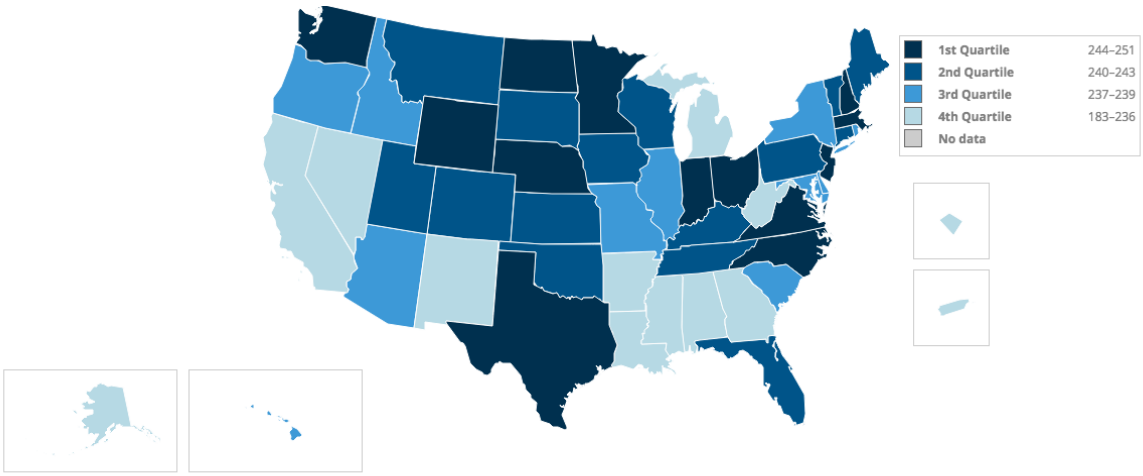
The NAEP program does not, and is not designed to, report on the performance of individual students or schools. Not all students participate in NAEP assessments; a sample of schools and students is selected to represent each participating state. Hundreds of thousands of students from several thousand schools across the nation typically participate in the NAEP mathematics assessment. The results from the assessed students are combined to provide accurate estimates of the overall performance of students in the nation and in individual states. Students with disabilities or limited English language proficiency are allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered.

Data source: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress.

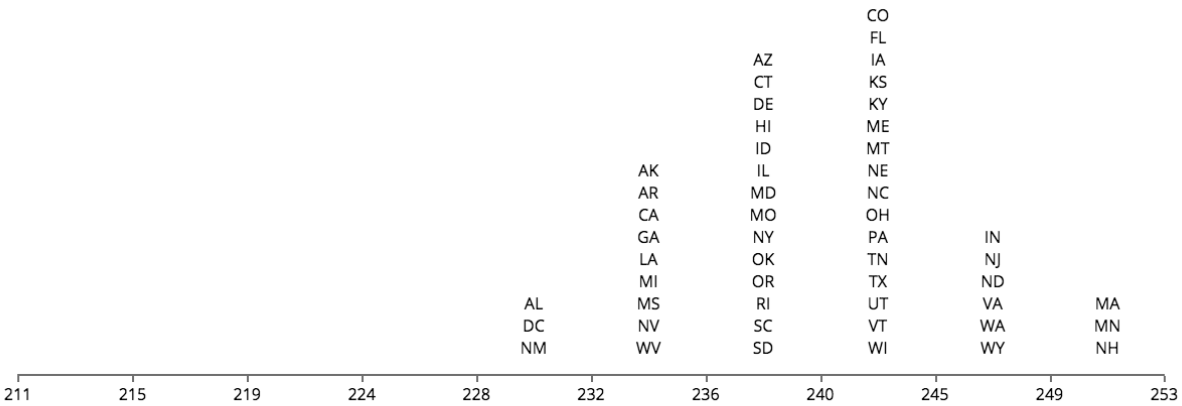
State Indicators

S-1 Fourth Grade Mathematics Performance

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

Fourth Grade Mathematics Performance

(Score out of 500)

State	2000	2003	2005	2007	2009	2011	2013	2015
United States	224	234	237	239	239	240	241	240
Alabama	217	223	225	229	228	231	233	231
Alaska	NA	233	236	237	237	236	236	236
Arizona	219	229	230	232	230	235	240	238
Arkansas	216	229	236	238	238	238	240	235
California	213	227	230	230	232	234	234	232
Colorado	NA	235	239	240	243	244	247	242
Connecticut	234	241	242	243	245	242	243	240
Delaware	NA	236	240	242	239	240	243	239
District of Columbia	192	205	211	214	219	222	229	231
Florida	NA	234	239	242	242	240	242	243
Georgia	219	230	234	235	236	238	240	236
Hawaii	216	227	230	234	236	239	243	238
Idaho	224	235	242	241	241	240	241	239
Illinois	223	233	233	237	238	239	239	237
Indiana	233	238	240	245	243	244	249	248
Iowa	231	238	240	243	243	243	246	243
Kansas	232	242	246	248	245	246	246	241
Kentucky	219	229	231	235	239	241	241	242
Louisiana	218	226	230	230	229	231	231	234
Maine	230	238	241	242	244	244	246	242
Maryland	222	233	238	240	244	247	245	239
Massachusetts	233	242	247	252	252	253	253	251

State Indicators

State	2000	2003	2005	2007	2009	2011	2013	2015
Michigan	229	236	238	238	236	236	237	236
Minnesota	234	242	246	247	249	249	253	250
Mississippi	211	223	227	228	227	230	231	234
Missouri	228	235	235	239	241	240	240	239
Montana	228	236	241	244	244	244	244	241
Nebraska	225	236	238	238	239	240	243	244
Nevada	220	228	230	232	235	237	236	234
New Hampshire	NA	243	246	249	251	252	253	249
New Jersey	NA	239	244	249	247	248	247	245
New Mexico	213	223	224	228	230	233	233	231
New York	225	236	238	243	241	238	240	237
North Carolina	230	242	241	242	244	245	245	244
North Dakota	230	238	243	245	245	245	246	245
Ohio	230	238	242	245	244	244	246	244
Oklahoma	224	229	234	237	237	237	239	240
Oregon	224	236	238	236	238	237	240	238
Pennsylvania	NA	236	241	244	244	246	244	243
Rhode Island	224	230	233	236	239	242	241	238
South Carolina	220	236	238	237	236	237	237	237
South Dakota	NA	237	242	241	242	241	241	240
Tennessee	220	228	232	233	232	233	240	241
Texas	231	237	242	242	240	241	242	244
Utah	227	235	239	239	240	243	243	243
Vermont	232	242	244	246	248	247	248	243
Virginia	230	239	240	244	243	245	246	247
Washington	NA	238	242	243	242	243	246	245

State Indicators

State	2000	2003	2005	2007	2009	2011	2013	2015
West Virginia	223	231	231	236	233	235	237	235
Wisconsin	S	237	241	244	244	245	245	243
Wyoming	229	241	243	244	242	244	247	247
Puerto Rico	NA	S	S	NA	NA	182	182	183

S data are suppressed because reporting standards were not met
NA not available

Note(s):
The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports and does not include territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress (various years), data as of February 2016.

Recommended Citation: National Science Board. 2018. "Fourth Grade Mathematics Performance." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/fourth-grade-math-performance

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S-2 Fourth Grade Mathematics Proficiency

Description

This indicator represents the proportion of a state's fourth grade public school students that met or exceeded the proficiency standard in mathematics. The National Assessment Governing Board sets performance standards that provide a context for interpreting National Assessment of Educational Progress (NAEP) results. The standards define “basic,” as well as “proficient” and “advanced” accomplishment. For the fourth grade, the basic level (scores 214–248) denotes partial mastery of knowledge and skills that are prerequisite for proficient work. The proficient level (249–281) represents solid academic performance and demonstrates competency over challenging subject-matter knowledge. The advanced level (282–500) signifies superior performance.

The National Center for Education Statistics has determined that achievement levels are to be used on a trial basis and should be interpreted with caution. However, both the Commissioner of Education Statistics and the National Assessment Governing Board state these performance standards are useful for understanding trends in student achievement.

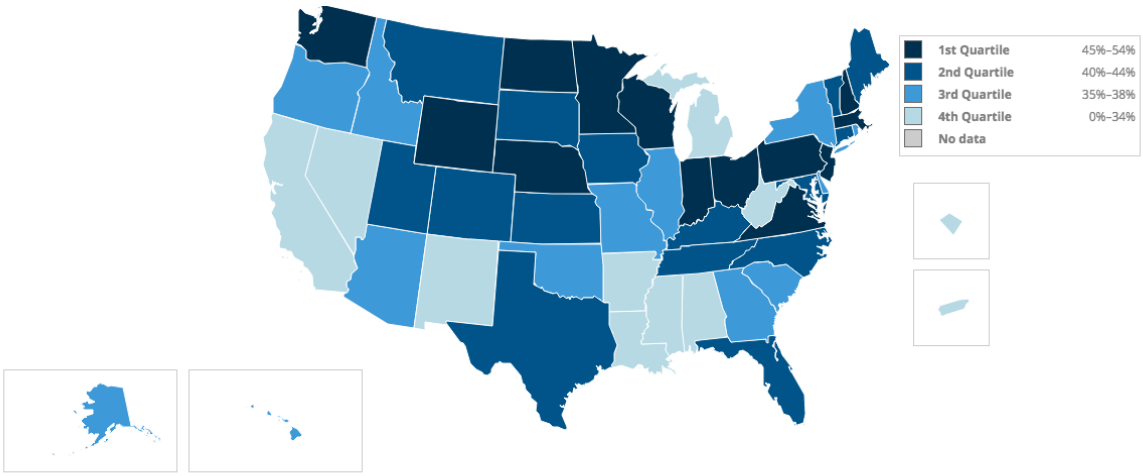
Not all students participate in NAEP assessments; a sample of schools and students is selected to represent each participating state. Hundreds of thousands of students from several thousand schools across the nation typically participate in the NAEP mathematics assessment. The results from the assessed students are combined to provide accurate estimates of the overall performance of students in the nation and in individual states and other jurisdictions. Students with disabilities or limited English language proficiency are allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered.

Data source: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress.

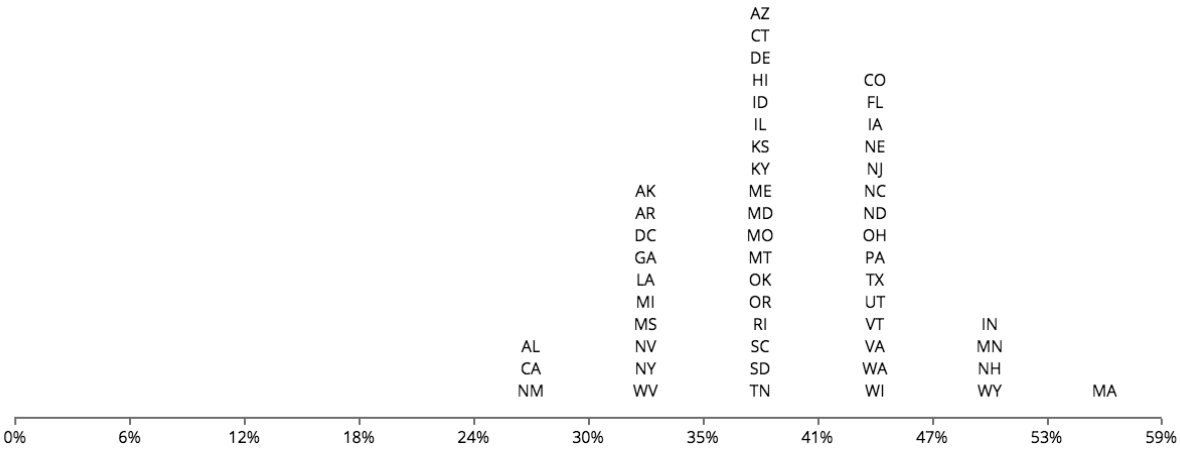
State Indicators

S-2 Fourth Grade Mathematics Proficiency

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

Fourth Grade Mathematics Proficiency

(Percent)

State	2000	2003	2005	2007	2009	2011	2013	2015
United States	22	31	35	39	38	40	41	39
Alabama	13	19	21	26	24	27	30	26
Alaska	NA	30	34	38	38	37	37	35
Arizona	16	25	28	31	28	34	40	38
Arkansas	14	26	34	37	36	37	39	32
California	13	25	28	30	30	34	33	29
Colorado	NA	34	39	41	45	47	50	43
Connecticut	31	41	42	45	46	45	45	41
Delaware	NA	31	36	40	36	39	42	37
District of Columbia	5	7	10	14	17	22	28	31
Florida	NA	31	37	40	40	37	41	42
Georgia	17	27	30	32	34	37	39	35
Hawaii	14	23	27	33	37	40	46	38
Idaho	20	31	40	40	41	39	40	38
Illinois	20	32	32	36	38	38	39	37
Indiana	30	35	38	46	42	44	52	50
Iowa	26	36	37	43	41	43	48	44
Kansas	29	41	47	51	46	48	48	41
Kentucky	17	22	26	31	37	39	41	40
Louisiana	14	21	24	24	23	26	26	30
Maine	23	34	39	42	45	45	47	41
Maryland	21	31	38	40	44	48	47	40
Massachusetts	31	41	49	58	57	58	58	54

State Indicators

State	2000	2003	2005	2007	2009	2011	2013	2015
Michigan	28	34	38	37	35	35	37	34
Minnesota	33	42	47	51	54	53	59	53
Mississippi	9	17	19	21	22	25	26	30
Missouri	23	30	31	38	41	41	39	38
Montana	24	31	38	44	45	45	45	41
Nebraska	24	34	36	38	38	39	45	46
Nevada	16	23	26	30	32	36	34	32
New Hampshire	NA	43	47	52	56	57	59	51
New Jersey	NA	39	45	52	49	51	49	47
New Mexico	12	17	19	24	26	30	31	27
New York	21	33	36	43	40	36	40	35
North Carolina	25	41	40	41	43	44	45	44
North Dakota	25	34	40	46	45	46	48	45
Ohio	25	36	43	46	45	45	48	45
Oklahoma	16	23	29	33	33	33	36	37
Oregon	23	33	37	35	37	37	40	37
Pennsylvania	NA	36	41	47	46	48	44	45
Rhode Island	22	28	31	34	39	43	42	37
South Carolina	18	32	36	36	34	36	35	36
South Dakota	NA	34	41	41	42	40	40	40
Tennessee	18	24	28	29	28	30	40	40
Texas	25	33	40	40	38	39	41	44
Utah	23	31	37	39	41	43	44	44
Vermont	29	42	44	49	51	49	52	43
Virginia	24	36	39	42	43	46	47	47
Washington	NA	36	42	44	43	45	48	47

State Indicators

State	2000	2003	2005	2007	2009	2011	2013	2015
West Virginia	17	24	25	33	28	31	35	33
Wisconsin	S	35	40	47	45	47	47	45
Wyoming	25	39	43	44	40	44	48	48
Puerto Rico	NA	S	S	NA	NA	*	1	*

* rounds to zero
S data are suppressed because reporting standards were not met
NA not available

Note(s):
The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports and does not include territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress (various years), data as of February 2016.

Recommended Citation: National Science Board. 2018. "Fourth Grade Mathematics Proficiency." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/fourth-grade-math-proficiency

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S-3 Fourth Grade Science Performance

Description

This indicator represents the average score in science of each state's fourth grade public school students on the National Assessment of Educational Progress (NAEP). The NAEP science assessment is a congressionally authorized measure of student performance that is conducted by the National Center for Education Statistics. The assessment measures students' knowledge and skills in science and their ability to apply that knowledge in the content areas of physical, life, and earth and space sciences. The NAEP assessment in science was updated in 2009 to keep pace with key developments in science. Because they are based on a new framework, results from assessments beginning in 2009 cannot be compared with those from previous science assessments. Student performance is presented in terms of average scores on a scale from 0 to 300.

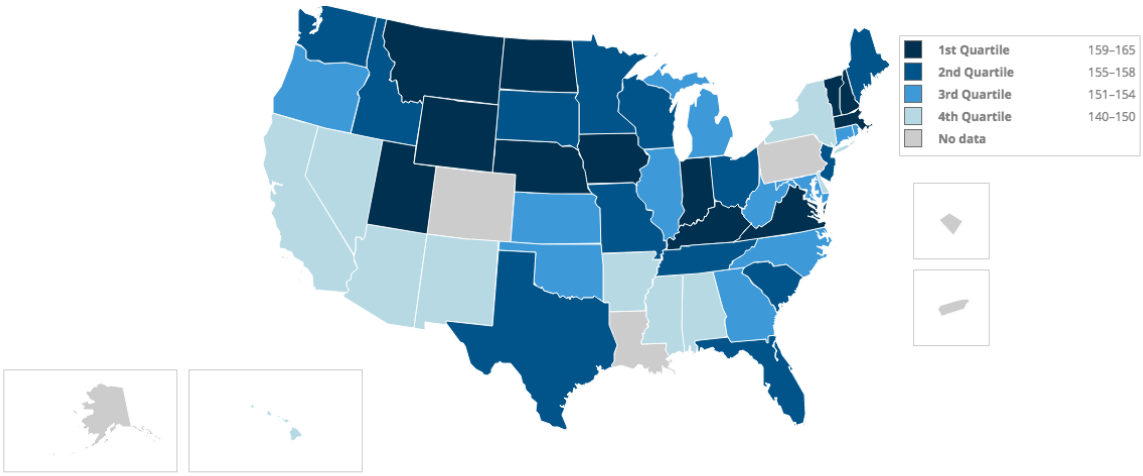
The NAEP program does not, and is not designed to, report on the performance of individual students or schools. Not all students participate in NAEP assessments; a sample of schools and students is selected to represent each participating state. Participation in the NAEP science assessment typically includes hundreds of thousands of students from several thousand schools across the nation. The results from the assessed students are combined to provide accurate estimates of the overall performance of students in the nation and in individual states and other jurisdictions. Students with disabilities or limited English language proficiency are allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered.

Data source: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress.

State Indicators

S-3 Fourth Grade Science Performance

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

Fourth Grade Science Performance

(Score out of 300)

State	2009	2015
United States	149	153
Alabama	143	145
Alaska	NA	NA
Arizona	138	149
Arkansas	146	150
California	136	140
Colorado	155	NA
Connecticut	156	154
Delaware	153	150
District of Columbia	NA	NA
Florida	151	158
Georgia	144	152
Hawaii	140	146
Idaho	154	156
Illinois	148	151
Indiana	153	159
Iowa	157	159
Kansas	NA	154
Kentucky	161	160
Louisiana	141	NA
Maine	160	158
Maryland	150	153
Massachusetts	160	161

State Indicators

State	2009	2015
Michigan	150	154
Minnesota	158	157
Mississippi	133	140
Missouri	156	155
Montana	160	159
Nebraska	NA	162
Nevada	141	142
New Hampshire	163	165
New Jersey	155	155
New Mexico	142	143
New York	148	150
North Carolina	148	154
North Dakota	162	161
Ohio	157	157
Oklahoma	148	153
Oregon	151	153
Pennsylvania	154	NA
Rhode Island	150	152
South Carolina	149	155
South Dakota	157	157
Tennessee	148	157
Texas	148	155
Utah	154	160
Vermont	NA	163
Virginia	162	165
Washington	151	158

State Indicators

State	2009	2015
West Virginia	148	151
Wisconsin	157	156
Wyoming	156	161
Puerto Rico	NA	NA

NA not available

Note(s):
The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports and does not include territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress (various years), data as of January 2017.

Recommended Citation: National Science Board. 2018. "Fourth Grade Science Performance." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/fourth-grade-science-performance

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S-4 Fourth Grade Science Proficiency

Description

This indicator represents the proportion of a state's fourth grade public school students that met or exceeded the proficiency standard in science. The National Assessment Governing Board sets performance standards that provide a context for interpreting National Assessment of Educational Progress (NAEP) results. The standards define “basic,” as well as “proficient” and "advanced" accomplishment. For the fourth grade, the basic level (scores 131–166) denotes partial mastery of knowledge and skills that are prerequisite for proficient work. The proficient level (167–223) represents solid academic performance and demonstrates competency over challenging subject-matter knowledge. The advanced level (224–300) signifies superior performance.

The National Center for Education Statistics has determined that achievement levels were to be used on a trial basis and should be interpreted with caution. However, both the Commissioner of Education Statistics and the National Assessment Governing Board state these performance standards are useful for understanding trends in student achievement.

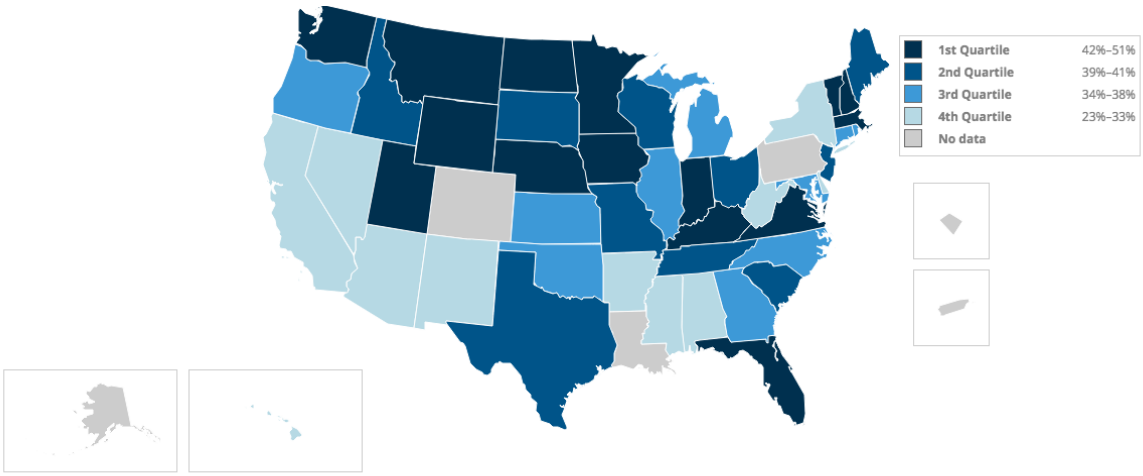
Not all students participate in NAEP assessments; a sample of schools and students is selected to represent each participating state. Participation in the NAEP science assessment typically includes hundreds of thousands of students from several thousand schools across the nation. The results from the assessed students are combined to provide accurate estimates of the overall performance of students in the nation and in individual states and other jurisdictions. Students with disabilities or limited English language proficiency are allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered.

Data source: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress.

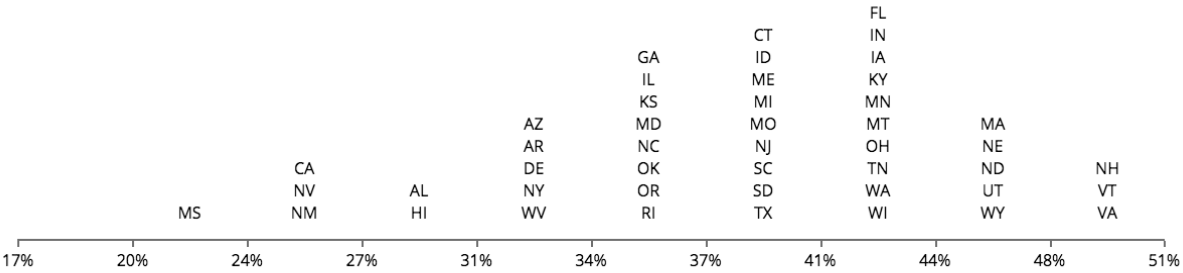
State Indicators

S-4 Fourth Grade Science Proficiency

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

Fourth Grade Science Proficiency

(Percent)

State	2009	2015
United States	32	37
Alabama	27	28
Alaska	NA	NA
Arizona	22	33
Arkansas	29	33
California	22	24
Colorado	39	NA
Connecticut	40	38
Delaware	34	33
District of Columbia	NA	NA
Florida	32	42
Georgia	27	35
Hawaii	25	30
Idaho	35	39
Illinois	32	35
Indiana	35	42
Iowa	41	42
Kansas	NA	37
Kentucky	45	44
Louisiana	25	NA
Maine	42	39
Maryland	33	37
Massachusetts	45	47

State Indicators

State	2009	2015
Michigan	34	38
Minnesota	43	43
Mississippi	17	23
Missouri	40	39
Montana	43	43
Nebraska	NA	47
Nevada	23	24
New Hampshire	47	51
New Jersey	39	39
New Mexico	24	25
New York	30	33
North Carolina	30	36
North Dakota	45	45
Ohio	41	41
Oklahoma	28	34
Oregon	34	37
Pennsylvania	38	NA
Rhode Island	34	36
South Carolina	33	40
South Dakota	40	40
Tennessee	33	41
Texas	29	39
Utah	38	45
Vermont	NA	48
Virginia	46	50
Washington	35	42

State Indicators

State	2009	2015
West Virginia	28	31
Wisconsin	41	41
Wyoming	37	45
Puerto Rico	NA	NA

NA not available

Note(s):
The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports and does not include territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress (various years), data as of January 2017.

Recommended Citation: National Science Board. 2018. "Fourth Grade Science Proficiency." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/fourth-grade-science-proficiency

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S-5 Eighth Grade Mathematics Performance

Description

This indicator represents the average score in mathematics of each state's eighth grade public school students on the National Assessment of Educational Progress (NAEP). The NAEP mathematics assessment is a congressionally authorized measure of student performance that is conducted by the National Center for Education Statistics. The assessment measures students' knowledge and skills in mathematics and their ability to apply that knowledge in the content areas of number properties and operations; measurement; geometry; data analysis, statistics, and probability; and algebra. Student performance is presented in terms of average scores on a scale from 0 to 500.

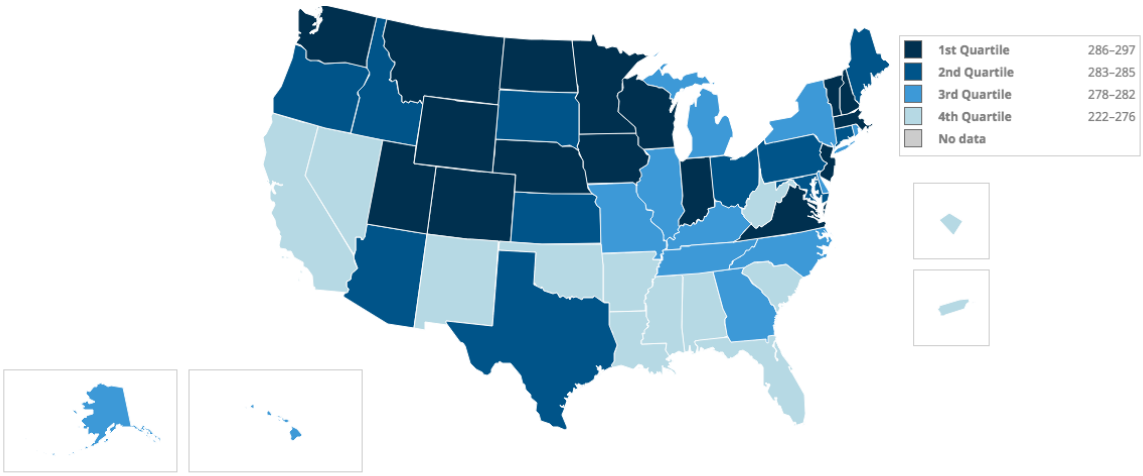
Not all students participate in NAEP assessments; a sample of schools and students is selected to represent each participating state. Hundreds of thousands of students from several thousand schools across the nation typically participate in the NAEP mathematics assessment. The results from the assessed students are combined to provide accurate estimates of the overall performance of students in the nation and in individual states and other jurisdictions. Students with disabilities or limited English language proficiency are allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered.

Data source: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress.

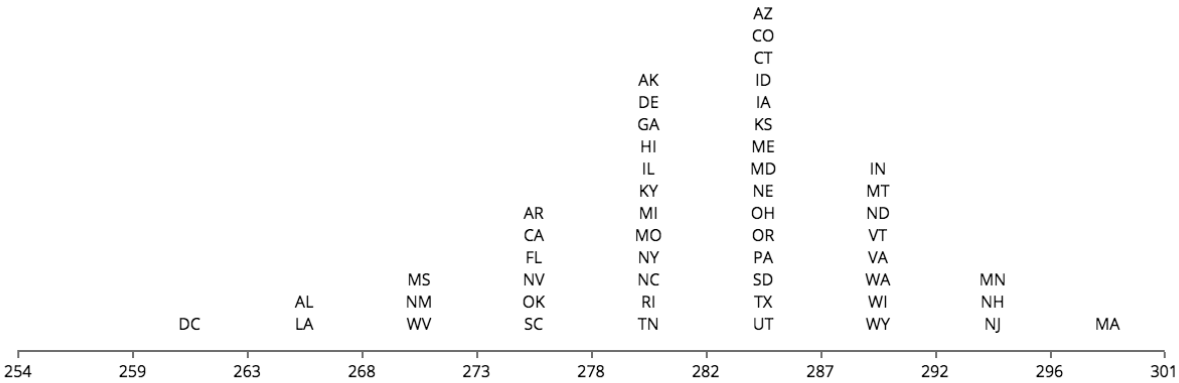
State Indicators

S-5 Eighth Grade Mathematics Performance

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

Eighth Grade Mathematics Performance

(Score out of 500)

State	2000	2003	2005	2007	2009	2011	2013	2015
United States	272	276	278	280	282	283	284	281
Alabama	264	262	262	266	269	269	269	267
Alaska	NA	279	279	283	283	283	282	280
Arizona	269	271	274	276	277	279	280	283
Arkansas	257	266	272	274	276	279	278	275
California	260	267	269	270	270	273	276	275
Colorado	NA	283	281	286	287	292	290	286
Connecticut	281	284	281	282	289	287	285	284
Delaware	NA	277	281	283	284	283	282	280
District of Columbia	235	243	245	248	254	260	265	263
Florida	NA	271	274	277	279	278	281	275
Georgia	265	270	272	275	278	278	279	279
Hawaii	262	266	266	269	274	278	281	279
Idaho	277	280	281	284	287	287	286	284
Illinois	275	277	278	280	282	283	285	282
Indiana	281	281	282	285	287	285	288	287
Iowa	NA	284	284	285	284	285	285	286
Kansas	283	284	284	290	289	290	290	284
Kentucky	270	274	274	279	279	282	281	278
Louisiana	259	266	268	272	272	273	273	268
Maine	281	282	281	286	286	289	289	285
Maryland	272	278	278	286	288	288	287	283
Massachusetts	279	287	292	298	299	299	301	297

State Indicators

State	2000	2003	2005	2007	2009	2011	2013	2015
Michigan	277	276	277	277	278	280	280	278
Minnesota	287	291	290	292	294	295	295	294
Mississippi	254	261	262	265	265	269	271	271
Missouri	271	279	276	281	286	282	283	281
Montana	285	286	286	287	292	293	289	287
Nebraska	280	282	284	284	284	283	285	286
Nevada	265	268	270	271	274	278	278	275
New Hampshire	NA	286	285	288	292	292	296	294
New Jersey	NA	281	284	289	293	294	296	293
New Mexico	259	263	263	268	270	274	273	271
New York	271	280	280	280	283	280	282	280
North Carolina	276	281	282	284	284	286	286	281
North Dakota	282	287	287	292	293	292	291	288
Ohio	281	282	283	285	286	289	290	285
Oklahoma	270	272	271	275	276	279	276	275
Oregon	280	281	282	284	285	283	284	283
Pennsylvania	NA	279	281	286	288	286	290	284
Rhode Island	269	272	272	275	278	283	284	281
South Carolina	265	277	281	282	280	281	280	276
South Dakota	NA	285	287	288	291	291	287	285
Tennessee	262	268	271	274	275	274	278	278
Texas	273	277	281	286	287	290	288	284
Utah	274	281	279	281	284	283	284	286
Vermont	281	286	287	291	293	294	295	290
Virginia	275	282	284	288	286	289	288	288
Washington	NA	281	285	285	289	288	290	287

State Indicators

State	2000	2003	2005	2007	2009	2011	2013	2015
West Virginia	266	271	269	270	270	273	274	271
Wisconsin	NA	284	285	286	288	289	289	289
Wyoming	276	284	282	287	286	288	288	287
Puerto Rico	NA	S	S	NA	NA	218	218	222

S data are suppressed because reporting standards were not met
NA not available

Note(s):
The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports and does not include territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress (various years), data as of February 2016.

Recommended Citation: National Science Board. 2018. "Eighth Grade Mathematics Performance." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/eighth-grade-math-performance

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S-6 Eighth Grade Mathematics Proficiency

Description

This indicator represents the proportion of a state's eighth grade public school students that met or exceeded the proficiency standard in mathematics. The National Assessment Governing Board sets performance standards that provide a context for interpreting National Assessment of Educational Progress (NAEP) results. The standards define “basic,” as well as “proficient” and “advanced” accomplishment. For the eighth grade, the basic level (scores 262–298) denotes partial mastery of knowledge and skills that are prerequisite for proficient work. The proficient level (299–332) represents solid academic performance and demonstrates competency over challenging subject-matter knowledge. The advanced level (333–500) signifies superior performance.

The National Center for Education Statistics has determined that achievement levels are to be used on a trial basis and should be interpreted with caution. However, both the Commissioner of Education Statistics and the National Assessment Governing Board state these performance standards are useful for understanding trends in student achievement.

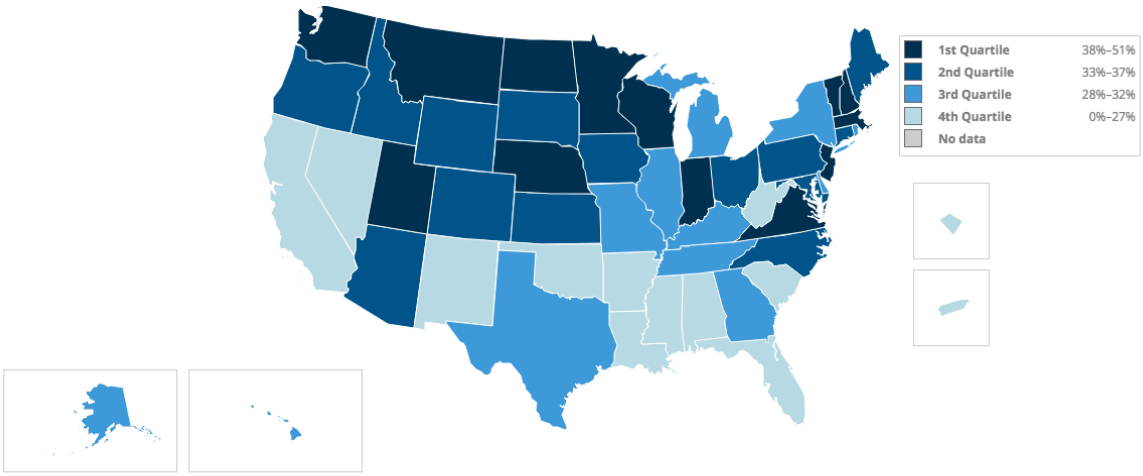
Not all students participate in NAEP assessments; a sample of schools and students is selected to represent each participating state. Hundreds of thousands of students from several thousand schools across the nation typically participate in the NAEP mathematics assessment. The results from the assessed students are combined to provide accurate estimates of the overall performance of students in the nation and in individual states and other jurisdictions. Students with disabilities or limited English language proficiency are allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered.

Data source: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress.

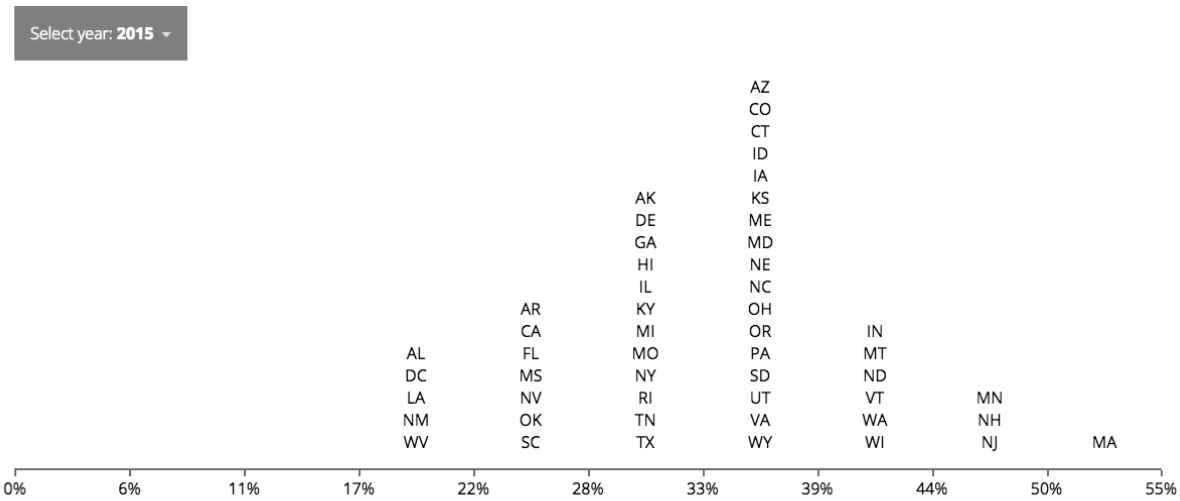
State Indicators

S-6 Eighth Grade Mathematics Proficiency

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

Eighth Grade Mathematics Proficiency

(Percent)

State	2000	2003	2005	2007	2009	2011	2013	2015
United States	25	27	28	31	33	34	34	32
Alabama	16	16	15	18	20	20	20	17
Alaska	NA	30	29	32	33	35	33	32
Arizona	20	21	26	26	29	31	31	35
Arkansas	13	19	22	24	27	29	28	25
California	17	22	22	24	23	25	28	27
Colorado	NA	34	32	37	40	43	42	37
Connecticut	33	35	35	35	40	38	37	36
Delaware	NA	26	30	31	32	32	33	30
District of Columbia	6	6	7	8	11	17	19	19
Florida	NA	23	26	27	29	28	31	26
Georgia	19	22	23	25	27	28	29	28
Hawaii	16	17	18	21	25	30	32	30
Idaho	26	28	30	34	38	37	36	34
Illinois	26	29	29	31	33	33	36	32
Indiana	29	31	30	35	36	34	38	39
Iowa	NA	33	34	35	34	34	36	37
Kansas	34	34	34	40	39	41	40	33
Kentucky	20	24	23	27	27	31	30	28
Louisiana	11	17	16	19	20	22	21	18
Maine	30	29	30	34	35	39	40	35
Maryland	27	30	30	37	40	40	37	35
Massachusetts	30	38	43	51	52	51	55	51

State Indicators

State	2000	2003	2005	2007	2009	2011	2013	2015
Michigan	28	28	29	29	31	31	30	29
Minnesota	39	44	43	43	47	48	47	48
Mississippi	9	12	14	14	15	19	21	22
Missouri	21	28	26	30	35	32	33	31
Montana	36	35	36	38	44	46	40	39
Nebraska	30	32	35	35	35	33	36	38
Nevada	18	20	21	23	25	29	28	26
New Hampshire	NA	35	35	38	43	44	47	46
New Jersey	NA	33	36	40	44	47	49	46
New Mexico	12	15	14	17	20	24	23	21
New York	24	32	31	30	34	30	32	31
North Carolina	27	32	32	34	36	37	36	33
North Dakota	30	36	35	41	43	43	41	39
Ohio	30	30	33	35	36	39	40	35
Oklahoma	18	20	21	21	24	27	25	23
Oregon	31	32	34	35	37	33	34	34
Pennsylvania	NA	30	31	38	40	39	42	36
Rhode Island	22	24	24	28	28	34	36	32
South Carolina	17	26	30	32	30	32	31	26
South Dakota	NA	35	36	39	42	42	38	34
Tennessee	16	21	21	23	25	24	28	29
Texas	24	25	31	35	36	40	38	32
Utah	25	31	30	32	35	35	36	38
Vermont	31	35	38	41	43	46	47	42
Virginia	25	31	33	37	36	40	38	38
Washington	NA	32	36	36	39	40	42	39

State Indicators

State	2000	2003	2005	2007	2009	2011	2013	2015
West Virginia	17	20	18	19	19	21	24	21
Wisconsin	NA	35	36	37	39	41	40	41
Wyoming	23	32	29	36	35	37	38	35
Puerto Rico	NA	S	S	NA	NA	*	*	*

* rounds to zero
S data are suppressed because reporting standards were not met
NA not available

Note(s):
The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports and does not include territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress (various years), data as of February 2016.

Recommended Citation: National Science Board. 2018. "Eighth Grade Mathematics Proficiency." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/eighth-grade-math-proficiency

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S-7 Eighth Grade Science Performance

Description

This indicator represents the average score in science of each state's eighth grade public school students on the National Assessment of Educational Progress (NAEP). The NAEP science assessment is a congressionally authorized measure of student performance that is conducted by the National Center for Education Statistics. The assessment measures students' knowledge and skills in science and their ability to apply that knowledge in the content areas of physical, life, and earth and space sciences. The NAEP assessment in science was updated in 2009 to keep pace with key developments in science. Because they are based on a new framework, results from assessments beginning in 2009 cannot be compared with those from previous science assessments. Student performance is presented in terms of average scores on a scale from 0 to 300.

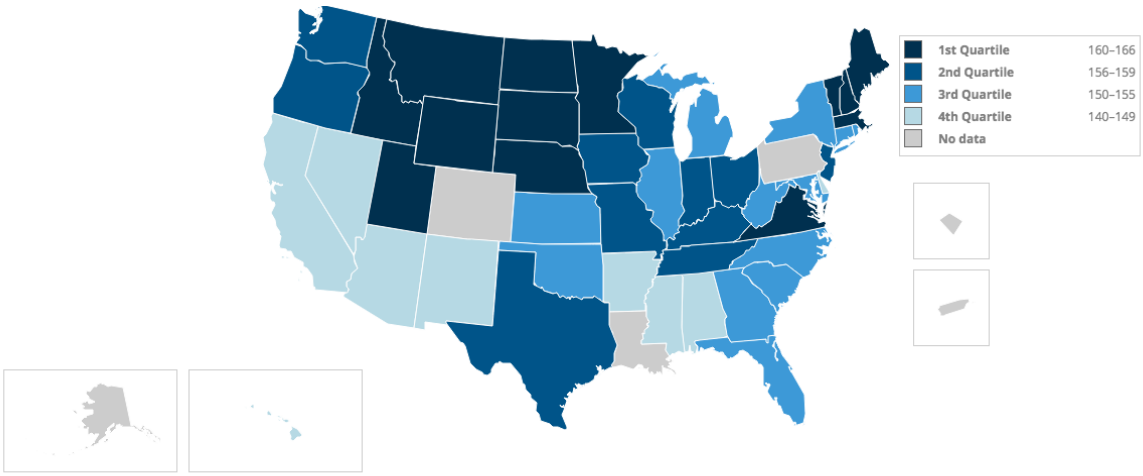
Not all students participate in NAEP assessments; a sample of schools and students is selected to represent each participating state. Hundreds of thousands of students from several thousand schools across the nation typically participate in the NAEP science assessment. The results from the assessed students are combined to provide accurate estimates of the overall performance of students in the nation and in individual states and other jurisdictions. NAEP allows students with disabilities or limited English language proficiency to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered.

Data source: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress.

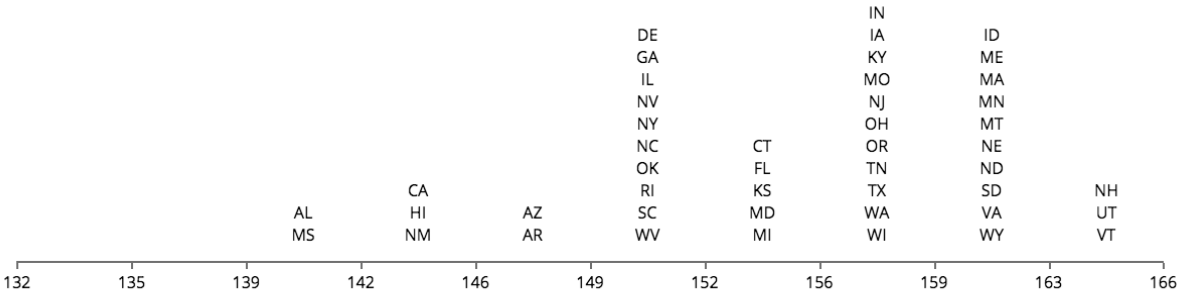
State Indicators

S-7 Eighth Grade Science Performance

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

Eighth Grade Science Performance

(Score out of 300)

State	2009	2011	2015
United States	149	151	153
Alabama	139	140	141
Alaska	NA	153	NA
Arizona	141	144	148
Arkansas	144	148	148
California	137	140	143
Colorado	156	161	NA
Connecticut	155	155	155
Delaware	148	150	149
District of Columbia	NA	112	NA
Florida	146	148	153
Georgia	147	151	152
Hawaii	139	142	144
Idaho	158	159	160
Illinois	148	147	150
Indiana	152	153	156
Iowa	156	157	159
Kansas	NA	156	155
Kentucky	156	157	157
Louisiana	139	143	NA
Maine	158	160	160
Maryland	148	152	155
Massachusetts	160	161	162

State Indicators

State	2009	2011	2015
Michigan	153	157	155
Minnesota	159	161	162
Mississippi	132	137	140
Missouri	156	156	159
Montana	162	163	161
Nebraska	NA	157	160
Nevada	141	144	149
New Hampshire	160	162	165
New Jersey	155	155	156
New Mexico	143	145	143
New York	149	149	150
North Carolina	144	148	150
North Dakota	162	164	161
Ohio	158	158	157
Oklahoma	146	148	151
Oregon	154	155	156
Pennsylvania	154	151	NA
Rhode Island	146	149	151
South Carolina	143	149	151
South Dakota	161	162	160
Tennessee	148	150	156
Texas	150	153	156
Utah	158	161	166
Vermont	NA	163	163
Virginia	156	160	160
Washington	155	156	157

State Indicators

State	2009	2011	2015
West Virginia	145	149	150
Wisconsin	157	159	159
Wyoming	158	160	160
Puerto Rico	NA	NA	NA

NA not available

Note(s):
The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports and does not include territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress (various years), data as of January 2017.

Recommended Citation: National Science Board. 2018. "Eighth Grade Science Performance." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/eighth-grade-science-performance

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S-8 Eighth Grade Science Proficiency

Description

This indicator represents the proportion of a state's eighth grade public school students that has met or exceeded the proficiency standard in science. The National Assessment Governing Board sets performance standards that provide a context for interpreting National Assessment of Educational Progress (NAEP) results. The standards define “basic,” as well as “proficient” and "advanced" accomplishment. For the eighth grade, the basic level (scores 141–169) denotes partial mastery of knowledge and skills that are prerequisite for proficient work. The proficient level (170–214) represents solid academic performance and demonstrates competency over challenging subject-matter knowledge. The advanced level (215–300) signifies superior performance.

The National Center for Education Statistics has determined that achievement levels are to be used on a trial basis and should be interpreted with caution. However, both the Commissioner of Education Statistics and the National Assessment Governing Board state these performance standards are useful for understanding trends in student achievement.

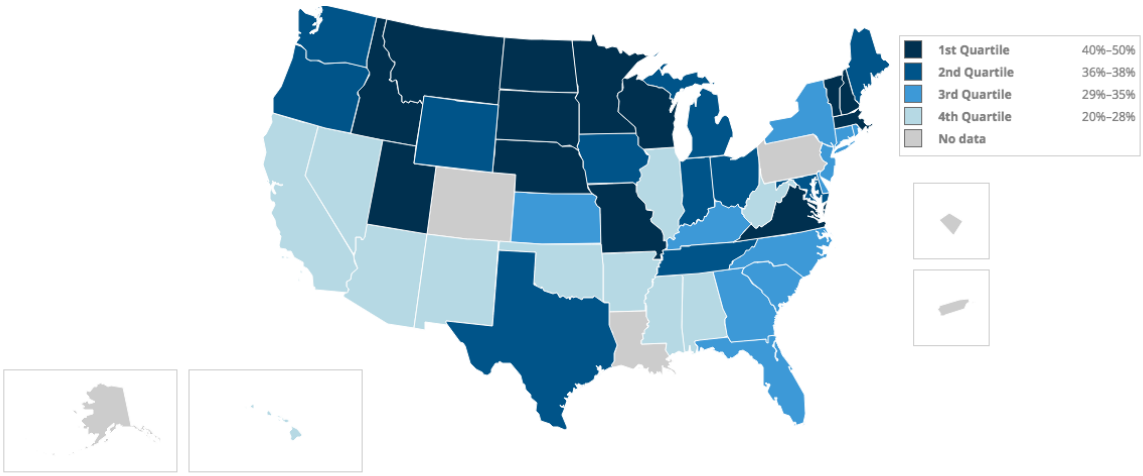
Not all students participate in NAEP assessments; a sample of schools and students is selected to represent each participating state. Hundreds of thousands of students from several thousand schools across the nation typically participate in the NAEP science assessment. The results from the assessed students are combined to provide accurate estimates of the overall performance of students in the nation and in individual states and other jurisdictions. NAEP allows students with disabilities or limited English-language proficiency to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered.

Data source: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress.

State Indicators

S-8 Eighth Grade Science Proficiency

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

Eighth Grade Science Proficiency

(Percent)

State	2009	2011	2015
United States	29	31	33
Alabama	19	19	21
Alaska	NA	34	NA
Arizona	22	23	25
Arkansas	24	26	28
California	20	22	24
Colorado	36	42	NA
Connecticut	35	35	35
Delaware	25	28	29
District of Columbia	NA	8	NA
Florida	25	28	33
Georgia	27	30	31
Hawaii	17	22	23
Idaho	37	38	40
Illinois	28	26	28
Indiana	32	33	36
Iowa	35	35	38
Kansas	NA	35	34
Kentucky	34	34	35
Louisiana	20	22	NA
Maine	35	37	38
Maryland	28	32	36
Massachusetts	41	44	44

State Indicators

State	2009	2011	2015
Michigan	35	38	36
Minnesota	40	42	45
Mississippi	15	19	20
Missouri	36	36	40
Montana	43	44	41
Nebraska	NA	38	41
Nevada	20	23	27
New Hampshire	39	42	46
New Jersey	34	34	35
New Mexico	21	22	21
New York	31	29	30
North Carolina	24	26	31
North Dakota	42	45	42
Ohio	37	38	38
Oklahoma	25	26	28
Oregon	35	35	36
Pennsylvania	35	33	NA
Rhode Island	26	31	32
South Carolina	23	28	31
South Dakota	40	42	40
Tennessee	28	31	37
Texas	29	32	37
Utah	39	43	50
Vermont	NA	43	44
Virginia	36	40	40
Washington	34	35	38

State Indicators

State	2009	2011	2015
West Virginia	22	24	27
Wisconsin	38	40	40
Wyoming	36	38	38
Puerto Rico	NA	NA	NA

NA not available

Note(s):
The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports and does not include territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress (various years), data as of January 2017.

Recommended Citation: National Science Board. 2018. "Eighth Grade Science Proficiency." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/eighth-grade-science-proficiency

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S-9 Public School Teacher Salaries

Description

This indicator represents the average salary of all full-time public school teachers. The year refers to the end date of the academic year. For example, 2016 data represent salaries for the 2015–16 academic year. The data include salaries for teachers with varying amounts of teaching experience and various types and levels of formal education; therefore, within-state salaries vary widely.

Salary estimates for public elementary and secondary teachers are provided by the National Education Association's Estimates of School Statistics. The data reflect the average gross salary before deductions for Social Security, retirement, health insurance, etc.

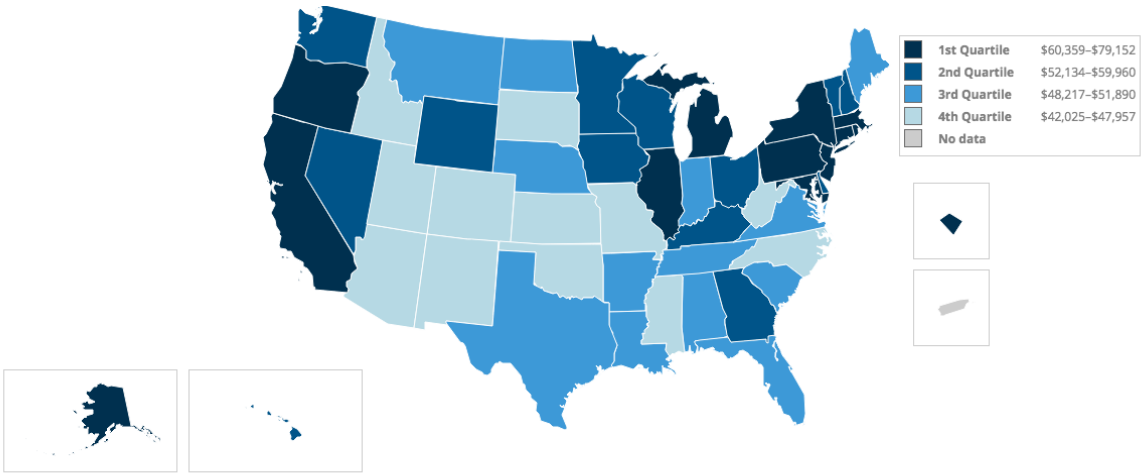
Public school teacher salaries may reflect a range of factors, including state funding for primary and secondary education, the state's cost of living, the teachers' experience and education level, and the local supply and demand in the job market. Average statewide salaries are typically lower than the national average in most states, indicating that a small share of states with high salaries results in a higher national average. Average teacher salaries have risen across the nation in unadjusted dollars, but salary increases are significantly smaller in inflation-adjusted terms.

Data source: National Education Association Rankings and Estimates database.

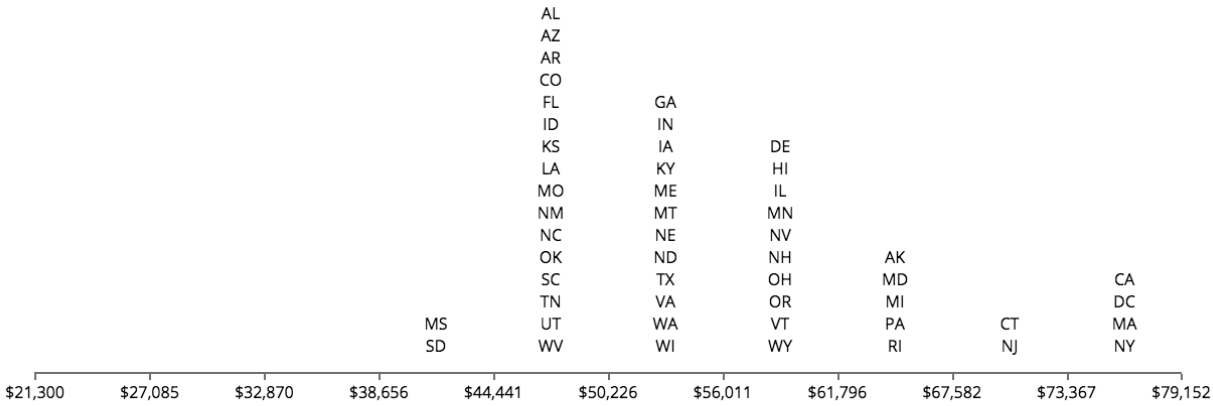
State Indicators

S-9 Public School Teacher Salaries

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

Public School Teacher Salaries

(Dollars)

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	31,367	33,061	34,015	34,974	35,705 e	36,757 e	37,585 e	38,413 e	39,346 e	40,517 e
Alabama	24,828	26,874	26,971	26,953	28,705	31,144	31,313	32,549	32,818	35,820
Alaska	43,153	43,427	44,661	46,701	47,512	47,951	49,620 e	50,647	47,601	46,845
Arizona	29,402	30,773	31,176	31,352	31,800	32,574	32,483	33,685	34,411 e	34,983 e
Arkansas	22,352	23,611	27,070	27,433	28,098	28,934	29,533	30,578	31,837	32,330
California	37,998	39,598	39,922	40,035	40,264	41,078	42,259	42,992	44,585	46,129
Colorado	30,758	31,819	33,072	33,541	33,826	34,571	35,364	36,271	37,240	38,157
Connecticut	40,461	43,808	46,971	48,343	49,769	50,045	50,254	50,426	50,730	51,424
Delaware	33,377	35,246	34,548	36,217	37,469	39,076	40,533	41,436	42,439	43,164
District of Columbia	38,402	39,497	38,798	38,702	42,543	41,835 e	43,700 e	44,834 e	47,076 e	47,076 e
Florida	28,803	30,555	31,070	31,172	31,944	32,588	33,330	33,889	34,475	35,916
Georgia	28,006	28,976	29,372	30,223	30,712	32,291	34,002	35,596	37,569	39,675
Hawaii	32,047	32,541	34,528	36,470	36,564	38,518	35,807	35,842	38,377	39,871
Idaho	23,861	25,485	26,334	27,011	27,756	29,785	30,892	31,820	32,834	34,442
Illinois	32,794	34,605	36,461	38,632	39,387	39,431	40,919	42,125	43,690	45,269
Indiana	30,902	32,757	34,006	35,066	35,712	36,785	37,675	38,845	39,750	41,159
Iowa	26,747	27,977	29,202	30,130	30,760	31,511	32,372	33,272	34,084	35,007
Kansas	28,744	29,767	28,759	30,243	31,297	31,815	32,382	32,865	33,579	34,369
Kentucky	26,292	29,115	30,870	31,115	31,625	32,257	33,080	33,949	34,613	35,526
Louisiana	24,300	26,240	25,963	26,102	26,095	26,461	27,530	29,025	31,131	32,384
Maine	26,881	28,531	30,097	30,250	30,996	31,972	32,869	33,676	34,349	34,906
Maryland	36,319	38,382	38,728	38,753	39,453	40,661	41,160	41,148	41,739	43,112
Massachusetts	34,712	36,460	37,845	38,681	39,012	40,718	41,760	42,650	44,051	45,149

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Michigan	37,072	39,449	41,490	43,901	44,856	46,463	46,832	47,181	47,168	47,448
Minnesota	32,190	33,126	34,451	35,093	35,440 e	35,948	36,922	38,115	37,932	39,458
Mississippi	24,292	24,366	24,367	24,367	25,153	26,818	27,692	27,720	28,692	29,530
Missouri	27,094	27,202	27,765	28,238	29,088	29,949	30,992	31,846	32,582	33,433
Montana	25,081	26,774	27,590	27,617	28,200	28,785	29,364	29,958	30,620	31,354
Nebraska	25,522	26,592	27,231	28,754	29,564	30,922	31,496	31,768	32,668	32,880
Nevada	30,590	32,209	33,857	34,119	33,955	34,836	36,167	37,340	37,094	38,735 e
New Hampshire	28,986	31,200	33,170	33,931	34,121	34,720	35,792	36,029	36,663	37,405
New Jersey	35,676	38,411	41,027	42,680	45,442 e	46,908 e	48,585 e	49,656 e	50,322 e	51,062 e
New Mexico	24,756	25,735	26,239	26,532	27,202	28,493	29,074	30,131	30,152	32,398
New York	38,925	42,080	43,335	44,999	45,772	47,612	48,115	48,000	48,712	49,490
North Carolina	27,883	29,276	28,791	29,315	29,728	30,793	30,411	31,167	33,129	36,883
North Dakota	23,016	23,574	24,495	25,211	25,506	26,327	26,969	27,711	28,230	28,976
Ohio	31,218	32,615	33,212	34,519	35,673	36,802	37,835	38,677	39,596	40,561
Oklahoma	23,070	24,457	25,339	25,918	27,009	28,172	28,404	30,369	30,692	31,115
Oregon	30,840	32,300	34,100	36,008	37,713	38,555	39,706	40,960	42,200	41,304
Pennsylvania	33,338	36,057	38,715	41,215	42,411	44,510	46,087	47,148	47,542	48,457
Rhode Island	36,057	34,997	36,417	37,933	39,261	40,729	41,765 e	43,019 e	44,300	45,650
South Carolina	27,217	28,301	28,068	29,224	29,566	30,279	31,622	32,830	33,697 e	34,506
South Dakota	21,300	22,376	23,291	24,289	25,259	25,994	26,346	26,764	27,875	28,553
Tennessee	27,052	28,248	28,621	28,960	30,514	32,477	33,126	34,222	34,584	35,490
Texas	27,496	28,321	29,041	29,935	30,529	31,223	31,400	32,426	33,537	34,336
Utah	23,686	25,578	26,339	27,239	27,706	29,082	30,588	31,867	32,482	33,917
Vermont	29,012	31,236	33,646	34,824	34,517	35,406	36,295	36,053	36,299	36,700
Virginia	30,938	32,153	31,764	32,257	33,009	33,987	34,792	35,536	36,428	37,565
Washington	30,457	33,079	34,823	35,759	35,863	36,151	37,853	37,805	38,759	38,688

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
West Virginia	22,842	25,967	27,366	30,301	30,549	31,944	32,155	33,250	33,396	34,244
Wisconsin	31,921	33,209	35,227	35,926	35,990	37,746	38,182	39,057	39,357	40,657
Wyoming	28,141	28,948	30,425	30,080	30,952	31,285	31,571	31,715	31,972	33,464
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

e estimated because data were not available from the state education department
NA not available

Note(s):
The national average for the United States is the reported value from the National Education Association (NEA) and does not include U.S. territories. Please see source for information on estimation techniques. (Used with permission of the NEA © 2017. All rights reserved.)

Source(s):
National Education Association Rankings and Estimates database, data as of May 2017.

Recommended Citation: National Science Board. 2018. "Public School Teacher Salaries." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/public-school-teacher-salaries

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Public School Teacher Salaries

(Dollars)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	41,790 e	43,378 e	44,648 e	45,688 e	46,542 e	47,540 e	49,088 e	51,142 e	52,963 e	54,354 e
Alabama	36,689	37,101	37,183	38,240	38,285	38,186	40,327	43,389	46,604	46,879
Alaska	46,462	48,123	49,418	49,685	51,736	52,424	53,322	54,679	56,758	58,395
Arizona	36,902	37,167	39,973	40,894 e	39,541	40,027	43,941	44,700	45,772	46,358
Arkansas	33,386	34,641	36,245	38,167	39,314 e	43,092	43,374	45,590	45,238	45,738
California	47,680	52,480	54,348	55,693	56,444	57,604	59,825	63,640	65,808	66,995
Colorado	38,163	39,183	40,659	42,680	43,319	43,965	44,456	45,831	47,493	48,485
Connecticut	51,780	52,693	53,551	55,367	57,337	57,737	59,304	62,107	63,722	65,830
Delaware	44,435	47,047	48,358	49,533	49,669	50,595	54,264	54,680	55,994	56,667
District of Columbia	47,076	48,704	47,049	50,763	57,009	58,456 e	59,000 e	59,000 e	60,628 e	62,557 e
Florida	36,722	38,230	39,275	40,281	40,591	41,590	43,302	45,308	46,930	46,921
Georgia	41,023	42,216	44,073	45,533	45,988	46,526	48,300	49,873	51,520	52,879
Hawaii	40,578	40,052	42,615	44,464	45,479	46,149	49,292	51,922	53,400	54,964
Idaho	35,547	37,109	39,174	39,715 e	40,111	40,864	41,150	42,798	44,099	45,178
Illinois	46,486	47,847	49,435	51,475	54,230	57,539	58,686	58,246	60,474	61,022
Indiana	41,850	43,311	44,030	45,090	45,791	46,583	47,255	47,831	49,155	49,568
Iowa	35,678	36,479	38,230	39,059	38,381	39,284	41,083	43,130	45,664	48,638
Kansas	34,981	35,901	37,093	37,795	38,623	39,345	41,467	43,358	44,795	46,237
Kentucky	36,380	36,589	37,951	38,881	40,201	40,959	42,592	43,646	47,208	47,875
Louisiana	33,109	33,615	36,328	37,166	37,918	39,022	40,029	42,816	46,964	48,627
Maine	35,561	36,373	37,300	38,518	39,864	39,610	40,856	42,103	43,397	45,184
Maryland	44,048	45,963	48,251	49,677	50,261	52,331	54,333	56,927	60,069	63,436
Massachusetts	46,580	48,649	49,242	51,803	53,733	54,701	56,366	58,258	64,164	67,572

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	49,044	51,317	52,477	53,175	52,161	53,959	54,739	55,526	60,430 e	60,430
Minnesota	39,802	42,212	43,330	44,745	45,375	47,410	47,522	49,718	50,345	52,414
Mississippi	31,857	31,954	33,295	35,134	36,190	38,717	41,158	43,273	41,768	41,041
Missouri	34,214	35,235	36,421	37,687	38,278	39,078	40,384	41,751	43,206	44,249 e
Montana	32,121	33,249	34,379	35,754	37,184	38,485	39,832 e	41,225	42,874	44,426
Nebraska	33,237	34,175	36,236	37,896	38,352	39,456	40,382	42,080	43,629	44,968
Nevada	39,390 e	40,443 e	40,763	42,254	42,254	43,394	44,426	45,158 e	47,710	50,067 e
New Hampshire	37,734	38,301	40,002	41,909	42,689	43,941	45,263	46,797	48,310	50,128
New Jersey	51,498 e	51,793 e	52,790 e	53,743 e	55,180 e	56,519 e	58,156 e	59,584 e	61,277	63,111
New Mexico	32,554	33,785	36,440	36,965	37,877	39,391	41,637	42,780	45,112	45,752
New York	51,020	51,500	52,000	53,017	55,181	55,665	59,681	63,086	65,491	69,118
North Carolina	39,404	41,496	42,680	42,411	43,211	43,383	43,922	46,137	47,354	48,454
North Dakota	29,863	30,891	32,253	33,869	35,629	36,695	37,764	38,822	40,279	41,654
Ohio	41,434	42,693	44,019	45,490	47,482	48,692 e	50,314 e	53,534	53,410	54,656
Oklahoma	31,294	34,498	34,738	34,877	35,061	37,879	38,772	42,379	43,551	43,846
Oregon	42,336	44,989	46,153	47,463	47,829	48,320	50,044	51,471	52,656	54,085
Pennsylvania	48,321	49,528	50,599	51,372 e	52,590 e	53,258 e	54,027 e	54,970	56,092	57,787
Rhode Island	47,041	48,474 e	49,758 e	51,076 e	52,261 e	53,473 e	54,730 e	55,956 e	57,210 e	58,440 e
South Carolina	36,081	37,938	39,923	40,362	41,162	42,189	43,011	43,891	45,758	47,421
South Dakota	29,071	30,265	31,295	32,416	33,236	34,040	34,709	35,378	36,674	35,070
Tennessee	36,328	37,431	38,515	39,186	40,318	42,076	42,537	43,816	44,820	45,549
Texas	37,567	38,361	39,232	39,974	40,476	41,011	41,744	44,897	46,179	47,157
Utah	34,946	36,441	38,139	38,268	38,976	37,065	37,543	37,775	43,175	45,923
Vermont	37,758	38,253	39,158	41,491	42,007	43,009	44,148 e	45,337 e	46,593 e	47,884 e
Virginia	38,744	40,175	41,771	40,377	40,666	41,959	43,569	45,539	46,680	48,385
Washington	41,043	42,137	43,464	44,958	45,434	45,718	46,316	47,882	49,884	52,567

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	35,009	35,888	36,751	38,481	38,461	38,360	38,284	40,531	42,529	44,701
Wisconsin	41,153	42,122	42,232	42,775	42,882	44,299	46,390	47,901	49,051	51,121
Wyoming	34,127	34,678	37,853	38,840	39,532	40,497	43,296	50,796	52,961	54,602
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

e estimated because data were not available from the state education department
NA not available

Note(s):
The national average for the United States is the reported value from the National Education Association (NEA) and does not include U.S. territories. Please see source for information on estimation techniques. (Used with permission of the NEA © 2017. All rights reserved.)

Source(s):
National Education Association Rankings and Estimates database, data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Public School Teacher Salaries

(Dollars)

State	2010	2011	2012	2013	2014	2015	2016
United States	55,225 e	55,586 e	55,522 e	56,065 e	56,648 e	57,611	58,353
Alabama	47,571	47,803	48,003	47,949	48,720	48,611	48,518
Alaska	60,732	62,918	62,425	65,468	65,891	66,755	67,443
Arizona	46,952 e	46,637	45,193	45,264	45,335 e	47,456	47,218
Arkansas	46,045	45,998	46,314	46,631	47,319	47,823	48,218
California	67,932	67,871	69,755	69,435	71,396	74,090	77,179
Colorado	49,181	49,228	49,049	49,844 e	49,615	44,421	46,155
Connecticut	68,096	69,165	69,465	69,397	70,583	71,709	72,013
Delaware	57,080	57,934 e	58,800 e	59,679 e	59,305	59,707	59,960
District of Columbia	64,548 e	66,601 e	68,720 e	70,906 e	73,162 e	75,490	75,810
Florida	46,708	45,732	46,504	46,598	47,780	48,992	49,199
Georgia	53,112	52,815	52,938	52,880	52,924	53,382	54,190
Hawaii	55,063	55,063	54,070	54,300	56,291	57,189	57,431
Idaho	46,464	45,450 e	44,435	44,669	44,465	45,218	46,122
Illinois	62,731	64,509	57,636	59,113 e	60,124 e	61,083	61,342
Indiana	49,986	50,801	50,516	50,077	50,289	50,877	50,715
Iowa	49,626	49,844	50,240	50,946	52,032	53,408	54,416
Kansas	46,660	46,598	46,718	47,464 e	48,221 e	47,609	47,755
Kentucky	49,543	48,908	49,730	50,203	50,560	51,155	52,134
Louisiana	48,903	49,006	50,179 e	51,381 e	49,067	49,491	49,745
Maine	46,208	47,249	47,338	48,430	49,232	49,926	50,498
Maryland	64,005	63,960	63,634	64,248	64,546	65,477	66,456
Massachusetts	68,733	70,340	70,474	71,620	73,847	75,398	76,981

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	63,023	61,560	61,560	61,560	62,166	61,978	62,028
Minnesota	52,431	53,680	54,959 e	56,268 e	54,752	56,670	56,913
Mississippi	42,307	41,975	41,976	41,814	42,187 e	42,564	42,744
Missouri	45,159 e	45,321	46,406 e	47,517 e	46,752	47,423	47,957
Montana	45,759	47,132 e	47,839	48,855	49,893 e	50,670	51,034
Nebraska	46,227	47,965	47,984	48,842	49,539	50,525	51,386
Nevada	51,524 e	53,023 e	54,559 e	55,957 e	55,813	56,703	56,943
New Hampshire	51,443	52,792 e	54,177 e	55,599 e	57,057 e	55,986	56,616
New Jersey	65,130	66,612	67,078	67,447	68,238	69,038	69,330
New Mexico	46,258	46,888	45,622	45,453	45,727	46,625	47,163
New York	71,633	72,708	73,398	75,279 e	76,409	77,628	79,152
North Carolina	46,850	46,700	45,933	45,737	44,990	47,792	47,941
North Dakota	42,877	44,807	46,058	47,344 e	48,666 e	48,944	50,472
Ohio	55,958	56,715	56,715	56,307	55,913	54,672	56,441
Oklahoma	44,261	44,343	44,391	44,373	44,547	45,317	45,276
Oregon	55,494	56,503	56,941	57,600	58,638	59,464	60,359
Pennsylvania	59,156	60,760	61,934	62,994	63,701	64,447	65,151
Rhode Island	59,686 e	60,923 e	62,186 e	63,474 e	64,969 e	65,918	66,197
South Carolina	47,508	47,050	47,428	48,375	48,430	48,486	48,769
South Dakota	38,837	39,850	38,804	39,018	40,023	40,934	42,025
Tennessee	45,497	45,891	47,082	47,563	47,742	47,979	48,217
Texas	48,261	48,638	48,373	48,819	49,690	50,713	51,890
Utah	46,340	45,329	45,432	45,543	45,695	46,689	46,887
Vermont	49,084	51,372	53,896	53,735	55,958	57,642	58,901
Virginia	48,043	47,564	48,114	48,988	49,786	50,544	50,834
Washington	53,003	52,926	52,232	52,234	52,969	52,502	53,738

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	44,505	44,260	45,399	45,453	45,086	45,783	45,622
Wisconsin	51,264	54,207	53,792	53,797	53,679	52,264	54,115
Wyoming	55,861	56,100	56,774	56,775	56,583	57,414	58,140
Puerto Rico	NA	NA	NA	NA	NA	NA	NA

e estimated because data were not available from the state education department
NA not available

Note(s):
The national average for the United States is the reported value from the National Education Association (NEA) and does not include U.S. territories. Please see source for information on estimation techniques. (Used with permission of the NEA © 2017. All rights reserved.)

Source(s):
National Education Association Rankings and Estimates database, data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S-10 Elementary and Secondary Public School Expenditures as a Percentage of Gross Domestic Product

Description

This indicator represents the relative amount of resources that state governments expend to support public education in prekindergarten through grade 12. It is calculated by dividing a state's current expenditures for elementary and secondary public schools by the state's gross domestic product (GDP). Current expenditures include instruction and instruction-related costs, student support services, administration, and operations and exclude funds for school construction and other capital outlays, debt service, and programs outside of public elementary and secondary education. State and local support represent the largest sources of funding for elementary and secondary education.

Absolute expenditures on public elementary and secondary education have increased over time, but when normalized by levels of state GDP, expenditures have decreased in many states. Many of the states with the highest education spending as a percentage of GDP also have small student populations, suggesting that some level of expenditure for educational infrastructure (e.g., assessments of curriculum development) may be largely independent of the size of the student population.

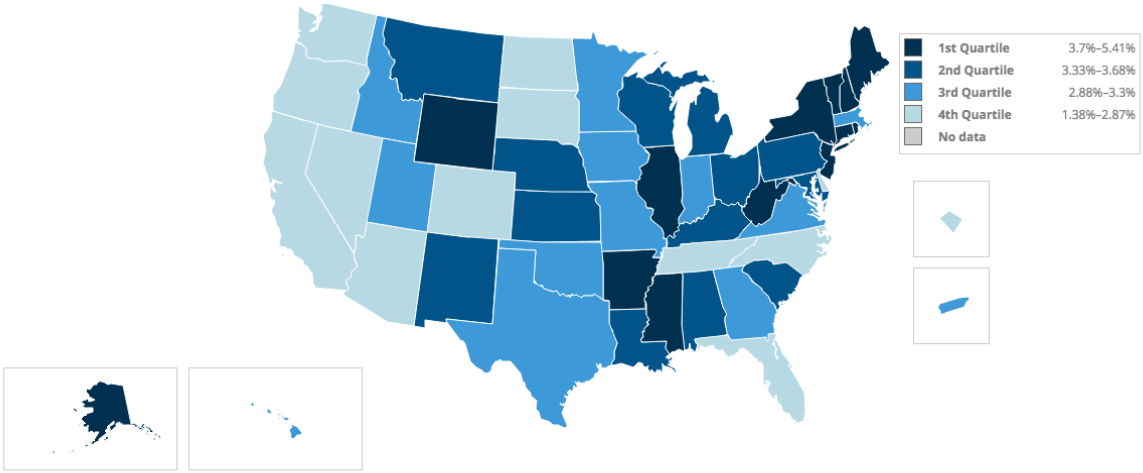
Expenditure data on public elementary and secondary education are reported by the National Center for Education Statistics. They are part of the National Public Education Financial Survey and are included in the Common Core of Data, a comprehensive annual national statistical database that covers approximately 100,000 public elementary and secondary schools and 18,000 regular school districts in the 50 states, District of Columbia, Department of Defense Schools, and outlying areas. Expenditures are expressed in current dollars and their data year is the end date of the academic year. For example, current expenditure data for 2014 represent expenditures for the 2013–14 academic year.

Data sources: U.S. Department of Education, National Center for Education Statistics, National Public Education Financial Survey; U.S. Bureau of Economic Analysis, Gross Domestic Product data; Government of Puerto Rico, Office of the Governor, Gross Domestic Product data.

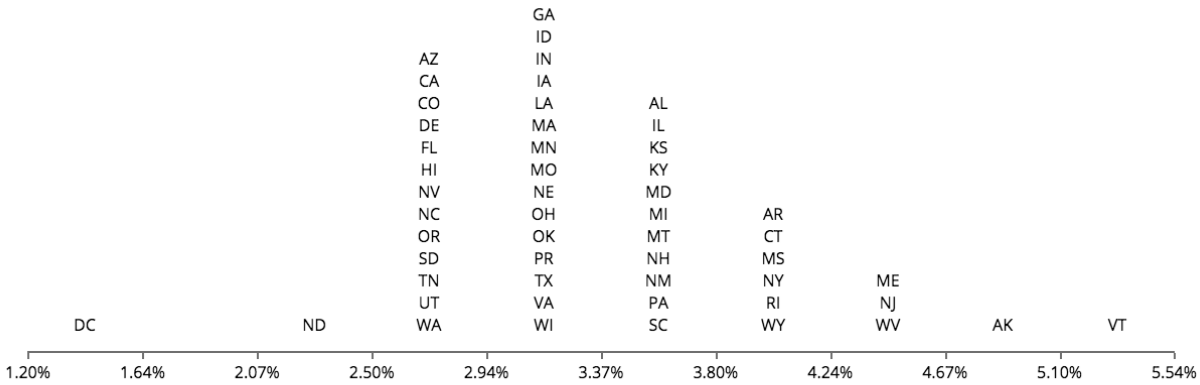
State Indicators

S-10 Elementary and Secondary Public School Expenditures 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

Elementary and Secondary Public School Expenditures as a Percentage of Gross Domestic Product

(Percent)

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
United States	3.43	3.36	3.35	3.30	3.17	3.17	3.16	3.17	3.30	3.38
Alabama	3.09	3.12	3.16	3.24	3.30	3.32	3.37	3.51	3.55	3.48
Alaska	4.16	4.25	4.01	3.91	4.20	4.55	4.61	4.41	4.30	4.32
Arizona	3.08	2.90	2.86	2.78	2.66	2.60	2.54	2.58	2.69	3.06
Arkansas	3.58	3.47	3.43	3.44	3.43	3.45	3.36	3.46	3.54	3.81
California	2.93	2.92	2.85	2.83	2.77	2.85	2.75	2.80	3.12	3.23
Colorado	3.05	2.83	2.87	2.78	2.63	2.58	2.51	2.42	2.53	2.67
Connecticut	3.47	3.49	3.45	3.38	3.23	3.22	3.28	3.20	3.25	3.39
Delaware	2.55	2.51	2.51	2.49	2.34	2.23	2.11	2.09	2.15	2.28
District of Columbia	1.48	1.53	1.42	1.42	1.23	1.20	1.20	1.30	1.28	1.32
Florida	3.17	3.16	3.18	3.10	2.99	2.93	2.91	2.79	2.84	2.76
Georgia	3.07	3.00	3.02	3.01	2.99	2.94	2.97	2.99	3.15	3.33
Hawaii	2.58	2.67	2.72	2.73	2.81	2.96	2.92	2.93	2.82	2.96
Idaho	3.48	3.37	3.43	3.53	3.70	3.70	3.61	3.41	3.73	3.81
Illinois	3.11	2.90	2.92	2.80	2.78	2.83	2.94	2.94	3.11	3.21
Indiana	3.63	3.53	3.49	3.47	3.51	3.34	3.43	3.46	3.65	3.59
Iowa	3.88	3.60	3.59	3.49	3.44	3.51	3.51	3.44	3.58	3.56
Kansas	3.77	3.67	3.69	3.57	3.42	3.39	3.44	3.42	3.65	3.75
Kentucky	3.46	3.37	3.25	3.28	3.23	3.18	3.16	3.35	3.42	3.47
Louisiana	3.34	3.15	3.08	2.98	3.18	3.34	3.38	3.30	3.23	3.42
Maine	4.83	4.55	4.55	4.49	4.40	4.42	4.36	4.33	4.39	4.47
Maryland	3.63	3.59	3.66	3.66	3.43	3.43	3.41	3.40	3.43	3.45
Massachusetts	3.04	3.04	3.09	3.06	2.89	2.96	3.00	2.96	3.12	3.28

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Michigan	4.21	3.90	4.07	4.12	3.86	3.83	3.79	3.98	4.06	4.11
Minnesota	3.51	3.38	3.42	3.32	3.24	3.26	3.31	3.21	3.34	3.24
Mississippi	3.38	3.34	3.49	3.48	3.48	3.54	3.58	3.81	3.82	3.82
Missouri	3.12	3.05	3.05	3.06	2.92	2.97	2.99	3.00	3.16	3.29
Montana	4.89	4.82	4.82	4.80	4.70	4.56	4.58	4.53	4.52	4.47
Nebraska	3.63	3.48	3.54	3.36	3.37	3.33	3.36	3.37	3.45	3.56
Nevada	2.59	2.43	2.41	2.38	2.39	2.43	2.43	2.44	2.43	2.53
New Hampshire	3.56	3.45	3.31	3.22	3.06	3.05	3.13	3.12	3.23	3.34
New Jersey	4.12	4.15	4.09	4.03	3.82	3.75	3.81	3.67	3.92	4.04
New Mexico	3.36	3.17	3.43	3.41	2.96	3.28	3.37	3.42	3.59	3.78
New York	3.89	3.97	3.95	3.79	3.41	3.42	3.40	3.41	3.52	3.62
North Carolina	2.93	2.84	2.81	2.74	2.57	2.63	2.67	2.78	2.83	2.84
North Dakota	3.90	3.65	3.59	3.38	3.66	3.58	3.69	3.56	3.53	3.51
Ohio	3.69	3.41	3.37	3.35	3.19	3.14	3.22	3.28	3.48	3.57
Oklahoma	3.73	3.90	3.90	3.67	3.74	3.84	3.94	3.70	3.85	3.90
Oregon	4.10	3.78	3.62	3.28	3.16	3.29	3.44	3.31	3.53	3.48
Pennsylvania	3.89	3.79	3.70	3.81	3.60	3.50	3.46	3.46	3.50	3.55
Rhode Island	3.97	4.07	3.98	4.14	3.95	3.95	3.96	4.02	4.04	4.00
South Carolina	3.53	3.40	3.35	3.40	3.36	3.37	3.40	3.53	3.74	3.80
South Dakota	3.43	3.38	3.39	3.14	3.27	3.27	3.29	3.23	3.32	3.06
Tennessee	2.63	2.54	2.58	2.60	2.67	2.65	2.65	2.72	2.78	2.83
Texas	3.41	3.40	3.46	3.41	3.28	3.27	3.28	3.39	3.42	3.57
Utah	3.56	3.55	3.46	3.31	3.19	3.11	3.08	3.00	3.06	3.12
Vermont	4.80	4.70	4.79	4.67	4.62	4.64	4.60	4.73	4.82	4.90
Virginia	3.12	3.07	3.09	3.02	2.90	2.88	2.84	2.89	2.93	2.97
Washington	3.28	3.24	3.31	3.22	2.88	2.85	2.64	2.70	2.83	2.85

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
West Virginia	5.10	4.81	4.86	4.85	4.78	4.78	4.75	4.89	4.90	4.89
Wisconsin	4.13	3.99	4.01	3.95	3.85	3.83	3.81	3.76	3.83	3.87
Wyoming	3.97	3.97	3.95	3.69	4.02	4.04	4.13	3.94	3.74	3.95
Puerto Rico	3.46	3.53	3.47	3.77	3.68	3.61	3.45	3.33	3.22	2.96

Note(s):
The national total for public school expenditures for the United States includes U.S. territories. Please see source for information on estimation methodology; The national GDP total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Public Education Financial Survey (various years), data as of February 2018; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); 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. "Elementary and Secondary Public School Expenditures 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/public-school-expenditures-to-state-gdp

Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

Elementary and Secondary Public School Expenditures as a Percentage of Gross Domestic Product

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	3.39	3.31	3.27	3.27	3.32	3.47	3.63	3.53	3.43	3.29
Alabama	3.47	3.27	3.29	3.47	3.68	3.96	3.97	3.82	3.65	3.44
Alaska	4.14	3.85	3.60	3.42	3.32	3.46	3.98	3.85	3.75	3.76
Arizona	3.06	2.97	2.89	2.87	2.98	3.27	3.60	3.45	3.28	3.01
Arkansas	3.71	3.65	3.93	4.02	4.11	4.16	4.33	4.33	4.27	4.22
California	3.15	2.99	2.88	2.84	2.93	3.10	3.14	2.96	2.83	2.72
Colorado	2.79	2.77	2.72	2.75	2.67	2.88	2.91	2.93	2.82	2.69
Connecticut	3.43	3.29	3.37	3.39	3.32	3.50	3.73	3.77	3.88	3.90
Delaware	2.30	2.29	2.44	2.51	2.52	2.69	2.65	2.70	2.69	2.89
District of Columbia	1.24	1.28	1.28	1.21	1.22	1.32	1.37	1.40	1.38	1.34
Florida	2.75	2.75	2.72	2.80	2.97	3.24	3.23	3.18	3.22	2.97
Georgia	3.41	3.24	3.23	3.40	3.55	3.89	3.95	3.81	3.66	3.56
Hawaii	3.03	2.91	2.81	2.91	3.14	3.18	3.40	3.13	3.06	3.02
Idaho	3.71	3.57	3.43	3.31	3.26	3.39	3.63	3.55	3.32	3.19
Illinois	3.25	3.23	3.18	3.10	3.14	3.40	3.68	3.78	3.61	3.52
Indiana	3.59	3.57	3.71	3.60	3.51	3.39	3.69	3.51	3.32	3.33
Iowa	3.42	3.11	3.09	3.16	3.08	3.27	3.45	3.38	3.26	3.14
Kansas	3.64	3.69	3.55	3.56	3.54	3.62	3.88	3.68	3.46	3.46
Kentucky	3.44	3.36	3.34	3.43	3.49	3.67	3.77	3.67	3.61	3.59
Louisiana	3.24	3.09	2.78	2.68	2.88	3.11	3.45	3.18	3.18	3.13
Maine	4.51	4.39	4.44	4.39	4.57	4.62	4.66	4.61	4.62	4.43
Maryland	3.48	3.32	3.29	3.38	3.56	3.81	3.85	3.79	3.66	3.56
Massachusetts	3.26	3.27	3.29	3.26	3.27	3.42	3.61	3.32	3.35	3.26

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	4.17	4.18	4.14	4.22	4.24	4.44	4.74	4.47	4.20	3.96
Minnesota	3.17	3.06	3.00	3.07	3.11	3.19	3.56	3.31	3.17	3.09
Mississippi	3.87	3.93	3.97	4.11	4.04	4.01	4.24	4.17	4.01	3.92
Missouri	3.31	3.17	3.18	3.26	3.31	3.41	3.52	3.49	3.38	3.28
Montana	4.37	4.14	3.89	3.81	3.67	3.77	3.98	3.90	3.69	3.55
Nebraska	3.44	3.42	3.42	3.45	3.45	3.50	3.51	3.48	3.35	3.40
Nevada	2.45	2.35	2.29	2.31	2.51	2.74	3.00	2.95	2.95	2.85
New Hampshire	3.45	3.50	3.53	3.57	3.66	3.91	4.00	4.02	4.05	3.95
New Jersey	4.20	4.33	4.44	4.49	4.67	4.95	4.86	4.96	4.79	4.74
New Mexico	3.59	3.48	3.43	3.50	3.59	3.54	3.85	3.74	3.50	3.37
New York	3.81	3.78	3.80	3.82	3.92	4.17	4.24	4.17	4.19	4.03
North Carolina	2.81	2.70	2.75	2.71	2.83	2.77	3.09	2.93	2.88	2.81
North Dakota	3.23	3.22	3.38	3.25	2.90	2.73	2.86	2.76	2.49	2.09
Ohio	3.70	3.69	3.67	3.71	3.70	3.83	4.04	3.97	3.78	3.58
Oklahoma	3.59	3.38	3.32	3.20	3.26	3.15	3.54	3.46	3.07	2.97
Oregon	3.25	2.95	3.02	2.92	2.95	2.99	3.05	2.83	2.72	2.74
Pennsylvania	3.58	3.65	3.69	3.73	3.64	3.65	3.80	3.81	3.82	3.64
Rhode Island	4.04	4.04	4.00	4.03	4.25	4.51	4.48	4.33	4.32	4.25
South Carolina	3.72	3.68	3.70	3.77	3.76	3.98	4.13	4.00	3.80	3.79
South Dakota	3.03	2.93	2.92	2.92	2.78	2.79	2.94	2.92	2.67	2.56
Tennessee	2.78	2.78	2.83	2.80	2.87	3.03	3.15	3.13	3.13	3.00
Texas	3.65	3.41	3.22	3.11	3.06	3.14	3.49	3.43	3.19	2.86
Utah	2.97	2.89	2.78	2.61	2.58	2.97	3.21	3.09	2.99	2.95
Vermont	4.89	4.90	5.00	5.09	5.23	5.33	5.54	5.38	5.15	5.31
Virginia	2.97	2.96	2.98	3.03	3.18	3.29	3.32	3.13	3.02	3.04
Washington	2.85	2.79	2.66	2.60	2.53	2.63	2.85	2.73	2.71	2.58

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	5.03	4.88	4.73	4.66	4.66	4.54	4.70	4.95	4.78	4.62
Wisconsin	3.87	3.76	3.73	3.71	3.71	3.83	3.96	3.94	3.94	3.56
Wyoming	3.73	3.47	3.14	2.95	3.10	2.78	3.42	3.41	3.37	3.56
Puerto Rico	3.35	3.02	3.42	3.53	3.65	3.67	3.63	3.52	3.51	3.30

Note(s):
The national total for public school expenditures for the United States includes U.S. territories. Please see source for information on estimation methodology; The national GDP total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Public Education Financial Survey (various years), data as of February 2018; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

Elementary and Secondary Public School Expenditures as a Percentage of Gross Domestic Product

(Percent)

State	2013	2014	2015
United States	3.24	3.21	3.21
Alabama	3.43	3.47	3.40
Alaska	4.01	4.15	4.96
Arizona	3.02	2.92	2.87
Arkansas	4.05	4.05	4.06
California	2.62	2.60	2.65
Colorado	2.62	2.60	2.64
Connecticut	3.96	4.11	4.03
Delaware	2.88	2.76	2.70
District of Columbia	1.39	1.38	1.38
Florida	2.92	2.93	2.84
Georgia	3.42	3.33	3.30
Hawaii	2.92	3.02	2.91
Idaho	3.16	3.08	3.08
Illinois	3.57	3.65	3.70
Indiana	3.15	3.03	2.99
Iowa	3.17	3.15	3.14
Kansas	3.41	3.44	3.38
Kentucky	3.51	3.43	3.43
Louisiana	3.19	3.19	3.34
Maine	4.42	4.41	4.43
Maryland	3.57	3.51	3.45
Massachusetts	3.31	3.31	3.22

State Indicators

State	2013	2014	2015
Michigan	3.81	3.70	3.58
Minnesota	3.08	3.07	3.13
Mississippi	3.87	3.90	3.92
Missouri	3.23	3.24	3.21
Montana	3.52	3.50	3.49
Nebraska	3.34	3.26	3.35
Nevada	2.79	2.82	2.75
New Hampshire	3.87	3.83	3.72
New Jersey	4.79	4.74	4.61
New Mexico	3.41	3.37	3.55
New York	3.98	3.96	3.93
North Carolina	2.78	2.67	2.64
North Dakota	2.14	2.16	2.46
Ohio	3.45	3.33	3.33
Oklahoma	2.87	2.77	2.96
Oregon	2.74	2.78	2.76
Pennsylvania	3.59	3.54	3.54
Rhode Island	4.07	4.06	4.03
South Carolina	3.83	3.75	3.68
South Dakota	2.53	2.60	2.57
Tennessee	2.96	2.88	2.76
Texas	2.74	2.75	2.95
Utah	2.96	2.91	2.88
Vermont	5.40	5.46	5.41
Virginia	3.09	3.04	2.99
Washington	2.52	2.57	2.57

State Indicators

State	2013	2014	2015
West Virginia	4.42	4.32	4.40
Wisconsin	3.47	3.41	3.33
Wyoming	3.51	3.51	3.83
Puerto Rico	3.59	3.43	3.15

Note(s):
The national total for public school expenditures for the United States includes U.S. territories. Please see source for information on estimation methodology; The national GDP total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Public Education Financial Survey (various years), data as of February 2018; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

Public school expenditures

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
United States	222,992,392	233,291,720	245,703,310	257,168,777	272,313,329	287,860,809	305,130,470	326,202,323	350,643,209	370,851,906
Alabama	2,610,514	2,809,713	3,026,287	3,240,364	3,436,406	3,633,159	3,880,188	4,176,082	4,354,794	4,444,390
Alaska	967,765	1,002,515	1,020,675	1,045,022	1,069,379	1,092,750	1,137,610	1,183,499	1,229,036	1,284,854
Arizona	2,753,510	2,911,304	3,144,540	3,327,969	3,527,473	3,740,638	3,963,428	4,288,739	4,632,539	5,499,645
Arkansas	1,703,604	1,782,645	1,873,595	1,994,748	2,074,113	2,149,237	2,241,244	2,380,331	2,505,179	2,822,877
California	24,219,792	25,140,639	25,949,033	27,334,639	29,909,168	32,759,492	34,379,878	38,129,479	42,908,787	46,265,544
Colorado	2,919,916	2,954,793	3,232,976	3,360,529	3,577,211	3,886,872	4,140,699	4,401,010	4,758,173	5,151,003
Connecticut	3,737,765	3,943,894	4,247,327	4,366,123	4,522,716	4,765,077	5,075,581	5,402,836	5,693,207	6,031,062
Delaware	599,893	643,915	694,473	726,241	788,715	830,731	872,786	937,630	1,027,224	1,072,875
District of Columbia	670,654	713,427	666,938	679,106	632,952	647,202	693,716	780,192	830,299	912,432
Florida	9,661,012	10,331,896	11,019,735	11,480,359	12,018,676	12,737,325	13,534,374	13,885,988	15,023,514	15,535,864
Georgia	5,273,143	5,643,843	6,136,689	6,629,646	7,230,405	7,770,241	8,537,177	9,158,624	10,011,343	10,853,496
Hawaii	946,074	998,143	1,028,729	1,040,682	1,057,069	1,112,351	1,143,713	1,213,695	1,215,968	1,348,381
Idaho	804,231	859,088	951,350	1,019,594	1,090,597	1,153,778	1,239,755	1,302,817	1,403,190	1,481,803
Illinois	9,942,737	10,076,889	10,640,279	10,727,091	11,720,249	12,473,064	13,602,965	14,462,773	15,658,682	16,480,787
Indiana	4,797,946	5,064,685	5,243,761	5,493,653	6,055,055	6,234,563	6,697,468	7,110,930	7,548,487	7,704,547
Iowa	2,459,141	2,527,434	2,622,510	2,753,425	2,885,943	3,005,421	3,110,585	3,264,336	3,430,885	3,565,796
Kansas	2,224,080	2,325,247	2,406,580	2,488,077	2,568,525	2,684,244	2,841,147	2,971,814	3,258,807	3,450,923
Kentucky	2,823,993	2,952,119	2,988,892	3,171,495	3,382,062	3,489,205	3,645,631	3,837,794	4,047,392	4,268,608
Louisiana	3,199,842	3,309,020	3,475,926	3,545,832	3,747,507	4,030,379	4,264,981	4,391,189	4,485,878	4,802,565
Maine	1,217,418	1,208,411	1,281,706	1,313,759	1,351,500	1,433,175	1,510,024	1,604,438	1,704,422	1,812,798
Maryland	4,556,233	4,783,023	5,083,380	5,311,207	5,529,309	5,843,685	6,165,934	6,545,135	7,041,586	7,480,723
Massachusetts	5,281,067	5,637,337	6,062,303	6,435,458	6,846,610	7,381,784	7,948,502	8,564,039	9,272,387	9,957,292
Michigan	9,532,994	9,816,830	10,440,206	11,137,877	11,686,124	12,003,818	12,785,480	13,994,294	14,243,597	14,975,150

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Minnesota	4,135,284	4,328,093	4,622,930	4,844,879	5,087,353	5,452,571	5,816,329	6,140,442	6,531,198	6,586,559
Mississippi	1,600,752	1,725,386	1,921,480	2,000,321	2,035,675	2,164,592	2,293,188	2,510,376	2,576,457	2,642,116
Missouri	3,710,426	3,981,614	4,275,217	4,531,192	4,775,931	5,067,720	5,348,366	5,655,531	6,076,169	6,491,603
Montana	785,159	822,015	844,257	868,892	902,252	929,197	955,695	994,770	1,041,760	1,073,005
Nebraska	1,430,039	1,513,971	1,594,928	1,648,104	1,707,455	1,743,775	1,821,310	1,926,500	2,067,290	2,206,946
Nevada	1,035,623	1,099,058	1,186,132	1,296,629	1,434,395	1,570,576	1,738,009	1,875,467	1,978,480	2,169,000
New Hampshire	972,963	1,007,129	1,053,966	1,114,540	1,173,958	1,241,255	1,316,946	1,418,503	1,518,792	1,641,378
New Jersey	9,915,429	10,448,096	10,776,982	11,208,558	11,771,941	12,056,560	12,874,579	13,327,645	14,773,650	15,822,609
New Mexico	1,240,310	1,323,459	1,443,789	1,517,517	1,557,376	1,659,891	1,788,382	1,890,274	2,022,093	2,204,165
New York	20,898,267	22,059,949	22,989,629	23,522,461	24,237,291	25,332,735	26,885,444	28,433,240	30,884,292	32,218,975
North Carolina	4,930,704	5,145,420	5,440,426	5,582,994	5,964,939	6,497,648	7,097,882	7,713,293	8,209,954	8,550,546
North Dakota	508,648	522,377	532,398	557,043	577,498	599,443	625,428	638,946	668,814	711,437
Ohio	9,572,879	9,612,678	10,030,956	10,408,022	10,948,074	11,448,722	12,207,147	12,974,575	13,893,495	14,774,065
Oklahoma	2,442,320	2,659,460	2,763,721	2,804,088	2,990,044	3,138,690	3,332,697	3,382,581	3,750,542	3,875,547
Oregon	2,849,009	2,852,723	2,948,539	3,056,801	3,184,100	3,474,714	3,706,044	3,896,287	4,112,069	4,214,512
Pennsylvania	10,944,392	11,236,417	11,587,027	12,374,073	12,820,704	13,084,859	13,532,211	14,120,112	14,895,316	15,550,975
Rhode Island	934,815	990,094	1,017,554	1,094,185	1,151,888	1,215,595	1,283,859	1,393,143	1,465,703	1,533,455
South Carolina	2,690,009	2,790,878	2,920,230	3,085,495	3,296,661	3,507,017	3,759,042	4,087,355	4,492,161	4,744,809
South Dakota	553,005	584,894	612,825	610,640	627,109	665,082	696,785	737,998	796,133	819,296
Tennessee	3,139,223	3,305,579	3,540,682	3,728,486	4,145,380	4,409,338	4,638,924	4,931,734	5,170,379	5,511,452
Texas	15,121,655	16,193,722	17,572,269	18,801,462	20,167,238	21,188,676	22,430,153	25,098,703	26,546,557	28,191,128
Utah	1,376,319	1,511,205	1,618,047	1,719,782	1,822,725	1,916,688	2,025,714	2,102,655	2,250,339	2,374,702
Vermont	625,064	643,828	665,559	684,864	718,092	749,786	792,664	870,198	934,031	992,149
Virginia	5,228,196	5,441,388	5,750,318	5,969,608	6,343,766	6,739,003	7,137,421	7,757,598	8,335,805	8,718,554
Washington	4,679,873	4,892,690	5,138,931	5,367,559	5,587,808	5,986,648	6,098,036	6,399,885	6,782,127	7,103,721
West Virginia	1,626,005	1,663,868	1,758,557	1,806,004	1,847,560	1,905,940	1,986,562	2,086,937	2,157,568	2,219,013

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Wisconsin	4,954,900	5,170,343	5,422,264	5,670,826	5,975,122	6,280,696	6,620,653	6,852,178	7,249,081	7,592,176
Wyoming	547,938	558,353	577,144	581,817	591,488	603,901	651,622	683,918	704,695	761,830
Puerto Rico	1,295,452	1,420,580	1,501,485	1,734,033	1,796,077	1,981,603	2,024,499	2,086,414	2,257,837	2,152,724

Science and Engineering Indicators 2018

State Indicators

Public school expenditures

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	390,357,693	406,229,696	428,167,865	452,686,862	480,571,874	510,857,571	522,990,858	528,767,674	531,442,782	531,181,458
Alabama	4,657,643	4,812,479	5,164,406	5,699,076	6,245,031	6,832,439	6,683,843	6,670,517	6,592,925	6,386,517
Alaska	1,326,226	1,354,846	1,442,269	1,529,645	1,634,316	1,918,375	2,007,319	2,084,019	2,201,270	2,292,205
Arizona	5,891,105	6,071,785	6,579,957	7,130,341	7,815,720	8,403,221	8,726,755	8,482,552	8,340,211	7,976,089
Arkansas	2,923,401	3,109,644	3,546,999	3,808,011	3,997,701	4,156,368	4,240,839	4,459,910	4,578,136	4,606,995
California	47,983,402	49,215,866	50,918,654	53,436,103	57,352,599	61,570,555	60,080,929	58,248,662	57,526,835	57,975,189
Colorado	5,551,506	5,666,191	5,994,440	6,368,289	6,579,053	7,338,766	7,187,267	7,429,302	7,409,462	7,341,585
Connecticut	6,302,988	6,600,767	7,080,396	7,517,025	7,855,459	8,336,789	8,708,294	8,853,337	9,094,036	9,344,999
Delaware	1,127,745	1,201,631	1,299,349	1,405,465	1,437,707	1,489,594	1,518,786	1,549,812	1,613,304	1,751,143
District of Columbia	902,318	1,011,536	1,067,500	1,057,166	1,130,006	1,282,437	1,352,905	1,451,870	1,482,202	1,466,888
Florida	16,355,123	17,578,884	19,042,877	20,897,327	22,887,024	24,224,114	23,328,028	23,349,314	23,870,090	22,732,752
Georgia	11,630,576	11,788,616	12,528,856	13,739,263	14,828,715	16,030,039	15,976,945	15,730,409	15,527,907	15,623,633
Hawaii	1,489,092	1,566,792	1,648,086	1,805,521	2,045,198	2,122,779	2,225,438	2,136,144	2,141,561	2,187,480
Idaho	1,511,862	1,555,006	1,618,215	1,694,827	1,777,491	1,891,505	1,957,740	1,961,857	1,881,746	1,854,556
Illinois	17,271,301	18,081,827	18,658,428	19,244,908	20,326,591	21,874,484	23,495,271	24,695,773	24,554,467	25,012,915
Indiana	8,088,684	8,524,980	9,108,931	9,241,986	9,497,077	9,281,709	9,680,895	9,921,243	9,687,949	9,978,491
Iowa	3,652,022	3,669,797	3,808,200	4,039,389	4,231,932	4,499,236	4,731,463	4,794,308	4,855,871	4,971,944
Kansas	3,510,675	3,658,421	3,718,153	4,039,417	4,339,477	4,633,517	4,806,603	4,731,676	4,741,372	4,871,381
Kentucky	4,401,627	4,553,382	4,812,591	5,213,620	5,424,621	5,822,550	5,886,890	6,091,814	6,211,453	6,360,799
Louisiana	5,056,583	5,290,964	5,554,766	5,554,278	6,040,368	6,814,455	7,276,651	7,393,452	7,522,098	7,544,782
Maine	1,909,268	1,969,497	2,056,266	2,119,408	2,258,764	2,308,071	2,350,447	2,370,085	2,377,878	2,330,842
Maryland	7,933,055	8,198,454	8,682,586	9,381,613	10,210,303	11,211,176	11,591,965	11,883,677	11,885,333	11,850,634
Massachusetts	10,281,820	10,799,765	11,357,857	11,747,010	12,383,447	13,182,987	13,937,097	13,356,373	13,962,366	14,151,659
Michigan	15,674,698	15,983,044	16,353,921	16,681,981	17,013,259	17,053,521	17,217,584	17,227,515	16,786,444	16,485,178

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	6,867,403	7,084,005	7,310,284	7,686,638	8,060,410	8,426,264	9,182,281	8,927,288	8,944,867	9,053,021
Mississippi	2,853,531	3,059,569	3,243,888	3,550,261	3,692,358	3,898,401	3,967,232	3,990,876	3,887,981	3,972,787
Missouri	6,793,957	6,832,454	7,115,207	7,592,485	7,957,705	8,526,641	8,827,224	8,923,448	8,691,887	8,719,925
Montana	1,124,291	1,160,838	1,193,182	1,254,360	1,320,112	1,392,449	1,436,062	1,498,252	1,518,818	1,504,531
Nebraska	2,304,223	2,413,404	2,512,914	2,672,629	2,825,608	2,970,323	3,053,575	3,213,646	3,345,530	3,462,575
Nevada	2,251,044	2,470,581	2,722,264	2,959,728	3,311,471	3,515,004	3,606,035	3,592,994	3,676,997	3,574,233
New Hampshire	1,781,594	1,900,240	2,021,144	2,139,113	2,246,692	2,399,330	2,490,623	2,576,956	2,637,911	2,643,256
New Jersey	17,185,966	18,416,695	19,669,576	20,869,993	22,448,262	24,357,079	23,446,911	24,261,392	23,639,281	24,391,278
New Mexico	2,281,608	2,446,115	2,554,638	2,729,707	2,904,474	3,057,061	3,186,252	3,217,328	3,127,463	3,039,461
New York	34,546,965	36,205,111	38,866,853	41,149,457	43,679,908	46,443,426	48,635,363	50,251,461	51,574,134	52,460,494
North Carolina	8,766,968	8,994,620	9,835,550	10,476,056	11,248,336	11,482,912	12,598,382	12,200,362	12,322,555	12,303,426
North Dakota	716,007	749,697	832,157	857,774	838,221	886,317	928,528	1,000,095	1,049,772	1,098,090
Ohio	15,868,494	16,662,985	17,167,866	17,829,599	18,251,361	18,892,374	19,387,318	19,801,670	19,988,921	19,701,810
Oklahoma	3,804,570	3,853,308	4,161,024	4,406,002	4,750,536	4,932,913	5,082,062	5,192,124	5,036,031	5,170,978
Oregon	4,150,747	4,199,485	4,458,028	4,773,751	5,039,632	5,409,630	5,529,831	5,401,667	5,430,888	5,389,273
Pennsylvania	16,344,439	17,680,332	18,711,100	19,631,006	20,404,304	21,157,430	21,831,816	22,733,518	23,485,203	23,190,198
Rhode Island	1,647,587	1,765,585	1,825,900	1,934,429	2,039,633	2,134,609	2,139,317	2,136,582	2,149,366	2,167,450
South Carolina	4,888,250	5,017,833	5,312,739	5,696,629	6,023,043	6,453,817	6,626,763	6,566,165	6,465,486	6,619,072
South Dakota	851,429	887,328	916,563	948,671	977,006	1,037,875	1,080,054	1,115,861	1,126,503	1,100,100
Tennessee	5,674,773	6,056,657	6,446,691	6,681,445	6,975,099	7,540,306	7,768,063	7,894,661	8,225,374	8,345,584
Texas	30,399,603	30,974,890	31,919,107	33,851,773	36,105,784	39,033,235	40,688,181	42,621,886	42,864,291	41,067,619
Utah	2,366,897	2,475,550	2,627,022	2,778,236	2,987,810	3,444,936	3,638,775	3,635,085	3,704,133	3,779,760
Vermont	1,045,213	1,111,029	1,177,478	1,237,442	1,300,149	1,356,165	1,413,329	1,432,683	1,424,507	1,497,093
Virginia	9,208,329	9,798,239	10,705,162	11,470,735	12,465,858	13,125,666	13,505,290	13,193,633	12,968,457	13,403,576
Washington	7,359,566	7,549,235	7,870,979	8,239,716	8,752,007	9,331,539	9,940,325	9,832,913	10,040,312	10,040,607
West Virginia	2,349,833	2,415,043	2,527,767	2,651,491	2,742,344	2,841,962	2,998,657	3,328,177	3,388,294	3,275,246

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	7,934,755	8,131,276	8,435,359	8,745,195	9,029,660	9,366,134	9,696,228	9,966,244	10,333,016	9,704,932
Wyoming	791,732	814,092	863,423	965,350	1,124,564	1,191,736	1,268,407	1,334,655	1,398,444	1,432,216
Puerto Rico	2,541,385	2,425,372	2,865,945	3,082,295	3,268,200	3,433,229	3,502,757	3,464,044	3,519,547	3,351,423

Science and Engineering Indicators 2018

State Indicators

Public school expenditures

State	2013	2014	2015
United States	540,039,802	557,607,993	579,160,324
Alabama	6,532,358	6,742,829	6,806,467
Alaska	2,395,354	2,418,000	2,648,552
Arizona	8,164,529	8,187,607	8,370,884
Arkansas	4,637,169	4,778,074	4,813,321
California	58,323,458	61,050,894	65,953,946
Colorado	7,506,978	7,924,319	8,260,461
Connecticut	9,543,010	10,050,439	10,321,511
Delaware	1,761,559	1,816,383	1,860,732
District of Columbia	1,557,117	1,605,030	1,668,528
Florida	23,214,634	24,363,817	25,123,548
Georgia	15,536,733	15,921,673	16,530,506
Hawaii	2,178,284	2,316,586	2,344,496
Idaho	1,925,676	1,949,963	2,015,654
Illinois	25,783,911	27,289,963	28,545,089
Indiana	9,811,166	9,841,337	9,970,350
Iowa	5,143,771	5,354,843	5,526,877
Kansas	4,895,863	5,083,374	5,136,532
Kentucky	6,354,306	6,375,119	6,583,287
Louisiana	7,492,539	7,721,469	7,960,448
Maine	2,357,739	2,441,064	2,538,313
Maryland	12,108,546	12,314,446	12,620,036
Massachusetts	14,627,898	15,183,018	15,723,617
Michigan	16,354,807	16,493,575	16,849,135

State Indicators

State	2013	2014	2015
Minnesota	9,354,376	9,723,759	10,222,017
Mississippi	4,006,798	4,071,006	4,145,632
Missouri	8,905,756	9,125,949	9,390,061
Montana	1,523,696	1,576,937	1,601,097
Nebraska	3,563,939	3,654,376	3,805,871
Nevada	3,577,346	3,738,777	3,880,472
New Hampshire	2,655,077	2,720,225	2,764,233
New Jersey	25,417,320	25,733,921	25,993,208
New Mexico	3,099,308	3,189,842	3,309,622
New York	52,938,586	55,080,662	56,862,010
North Carolina	12,666,607	12,685,461	13,210,839
North Dakota	1,174,364	1,287,133	1,373,266
Ohio	19,506,123	19,714,149	20,231,423
Oklahoma	5,329,897	5,451,048	5,560,047
Oregon	5,395,742	5,647,470	5,969,321
Pennsylvania	23,712,931	24,264,551	25,109,991
Rhode Island	2,121,403	2,182,976	2,242,486
South Carolina	6,950,410	7,163,995	7,437,182
South Dakota	1,125,929	1,182,721	1,211,080
Tennessee	8,531,675	8,606,624	8,736,367
Texas	42,066,035	44,330,579	47,527,971
Utah	3,944,736	4,094,074	4,290,876
Vermont	1,549,228	1,602,256	1,638,720
Virginia	13,868,587	13,955,249	14,384,705
Washington	10,216,676	10,911,929	11,470,245
West Virginia	3,188,181	3,194,770	3,226,918

State Indicators

State	2013	2014	2015
Wisconsin	9,758,650	9,920,370	10,054,346
Wyoming	1,439,041	1,466,579	1,509,532
Puerto Rico	3,676,880	3,510,706	3,247,136
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
United States	14,958,151	15,506,355	16,142,806	16,679,187	17,379,962	18,028,287	18,561,329
Alabama	174,710	180,665	185,878	190,319	194,404	199,980	204,861
Alaska	54,134	58,759	60,890	59,808	58,267	53,384	50,713
Arizona	245,668	254,192	264,693	270,469	280,790	291,448	302,952
Arkansas	102,951	107,287	109,226	114,456	117,922	118,677	120,689
California	1,965,886	2,036,297	2,131,199	2,223,892	2,349,338	2,491,619	2,602,672
Colorado	253,374	262,719	272,799	286,835	305,309	313,329	323,692
Connecticut	234,528	234,233	239,462	240,975	244,784	256,306	263,379
Delaware	57,471	59,937	60,628	61,109	65,888	68,864	70,387
District of Columbia	103,831	107,738	109,685	111,890	116,309	121,119	126,815
Florida	735,098	741,455	764,136	794,644	832,340	883,861	926,817
Georgia	412,485	424,126	439,058	454,238	477,522	501,522	525,360
Hawaii	68,225	70,017	72,532	74,630	76,835	80,599	83,917
Idaho	55,258	56,744	58,105	60,854	63,272	65,460	67,275
Illinois	653,476	679,776	711,370	721,876	747,641	772,182	791,608
Indiana	282,259	291,570	299,996	311,150	324,425	333,363	341,909
Iowa	141,697	148,843	158,246	162,305	169,843	175,809	178,766
Kansas	128,542	136,884	140,964	143,471	147,585	151,845	153,258
Kentucky	165,974	171,835	177,046	181,135	185,748	191,897	197,043
Louisiana	232,596	236,248	241,378	234,608	242,102	238,075	235,109
Maine	51,456	51,490	52,580	53,348	55,325	57,332	59,275
Maryland	313,952	324,830	332,500	339,443	350,430	366,242	378,280
Massachusetts	402,652	417,283	434,098	442,090	459,118	488,100	507,913
Michigan	385,021	399,437	416,701	429,644	445,209	470,611	487,239

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	269,937	282,397	292,920	304,063	316,973	326,833	335,147
Mississippi	95,810	96,968	101,351	103,523	104,284	105,871	107,680
Missouri	255,865	257,225	266,245	275,911	282,034	292,718	300,891
Montana	38,375	41,187	42,349	43,229	45,058	45,845	45,994
Nebraska	92,231	99,935	101,973	106,765	112,087	113,458	115,345
Nevada	121,713	124,445	125,440	128,205	132,653	141,070	147,475
New Hampshire	64,159	65,214	66,948	68,558	71,100	74,269	77,855
New Jersey	489,130	493,343	514,662	531,072	542,549	564,360	581,122
New Mexico	86,079	89,261	90,146	90,834	94,707	93,230	93,297
New York	1,204,688	1,229,743	1,301,041	1,330,236	1,391,086	1,445,611	1,487,998
North Carolina	416,008	427,974	438,350	454,945	474,482	499,741	517,904
North Dakota	36,202	42,164	52,493	54,965	59,627	55,927	52,089
Ohio	498,989	528,567	550,299	564,683	591,485	607,326	625,715
Oklahoma	149,913	163,868	174,305	186,007	196,767	188,011	182,937
Oregon	191,120	199,929	196,973	196,594	203,326	216,522	226,821
Pennsylvania	596,662	615,411	637,896	659,792	684,781	708,402	724,936
Rhode Island	49,351	49,716	50,997	52,187	53,725	55,650	57,433
South Carolina	164,106	170,193	174,567	181,556	191,168	201,831	209,716
South Dakota	38,176	42,253	43,056	44,560	45,470	47,073	48,139
Tennessee	252,478	263,175	278,298	288,012	298,865	316,659	328,770
Texas	1,243,398	1,344,733	1,437,893	1,536,472	1,614,127	1,611,189	1,616,801
Utah	117,714	124,031	128,018	133,274	140,500	149,099	156,352
Vermont	26,633	27,676	28,195	28,690	29,360	30,300	31,092
Virginia	420,862	429,174	441,144	449,235	459,068	481,721	494,349
Washington	359,694	370,149	388,922	405,561	425,105	446,417	469,739
West Virginia	67,255	70,945	70,969	72,082	74,002	73,384	73,374

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	252,875	262,463	272,420	281,569	290,889	301,587	309,536
Wyoming	39,103	41,499	40,201	40,968	41,832	39,415	37,858
Puerto Rico	98,381	100,352	101,565	102,450	102,446	103,144	105,035

Science and Engineering Indicators 2018

State Indicators

S-11 Expenditures per Pupil for Elementary and Secondary Public Schools

Description

This indicator represents the amount that local, state, and federal governments spend on elementary and secondary education, adjusted for the size of the student body. It is calculated by dividing the current expenditures over the entire academic year for prekindergarten through grade 12 by the number of students in those grades in public schools. Current expenditures include instruction and instruction-related costs, student support services, administration, and operations and exclude funds for school construction and other capital outlays, debt service, and programs outside of public elementary and secondary education. The number of pupils enrolled in prekindergarten through grade 12 is determined during the fall of the academic year. Expenditures represent actual spending in current dollars and have not been adjusted for inflation or for the cost of living in a state, which affect the amount of goods and services that can be purchased.

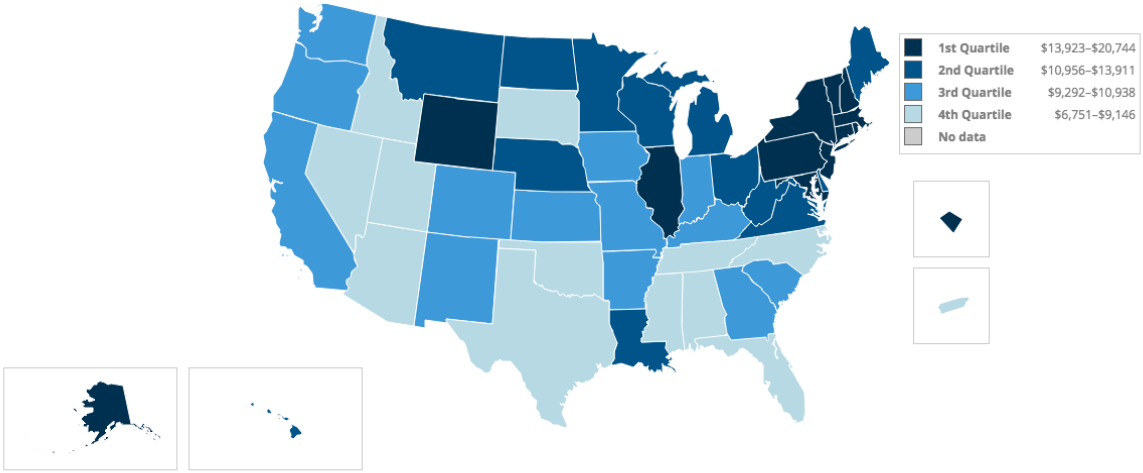
Expenditure data on public elementary and secondary education are reported by the National Center for Education Statistics. They are part of the National Public Education Financial Survey and are included in the Common Core of Data, a comprehensive annual national statistical database that covers approximately 100,000 public elementary and secondary schools and 18,000 regular school districts in the 50 states, District of Columbia, Department of Defense Schools, and outlying areas. Expenditures are expressed in current dollars and their data year is the end date of the academic year. For example, data for 2014 represent costs for the 2013–14 academic year.

Data sources: U.S. Department of Education, National Center for Education Statistics, National Public Education Financial Survey; U.S. Department of Education, National Center for Education Statistics, State Nonfiscal Survey of Public Elementary/Secondary Education.

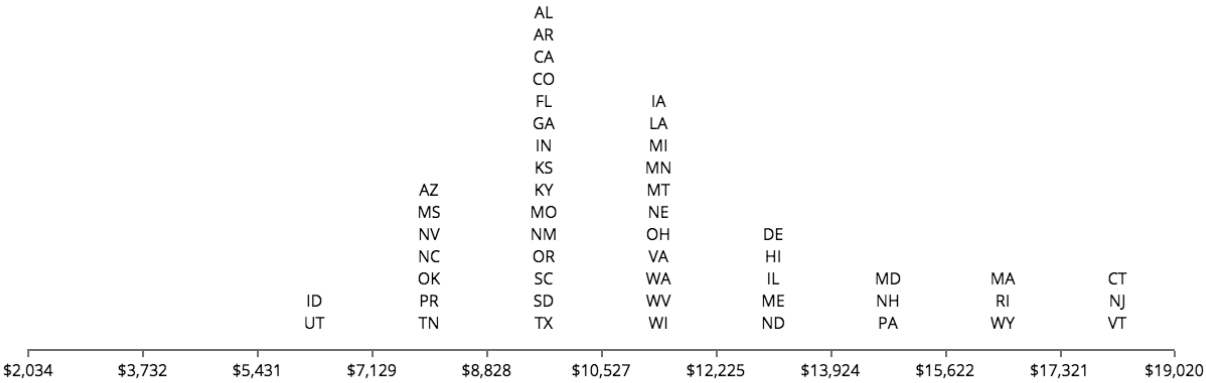
State Indicators

S-11 Expenditures per Pupil for Elementary and Secondary Public Schools

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

Expenditures per Pupil for Elementary and Secondary Public Schools

(Dollars)

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
United States	5,123	5,280	5,483	5,646	5,880	6,148	6,460	6,860	7,321	7,673
Alabama	3,572	3,826	4,109	4,343	4,595	4,849	5,188	5,638	5,885	6,029
Alaska	7,901	7,960	8,033	8,189	8,231	8,271	8,404	8,806	9,216	9,563
Arizona	4,088	4,104	4,264	4,476	4,413	4,595	4,672	5,030	5,278	5,964
Arkansas	3,859	4,013	4,186	4,401	4,535	4,708	4,956	5,277	5,568	6,276
California	4,614	4,718	4,799	4,937	5,260	5,644	5,801	6,314	6,987	7,434
Colorado	4,766	4,727	5,047	5,121	5,312	5,656	5,923	6,215	6,567	6,941
Connecticut	7,652	7,947	8,380	8,430	8,580	8,904	9,318	9,753	10,127	10,577
Delaware	5,750	6,101	6,502	6,696	7,135	7,420	7,706	8,310	8,958	9,284
District of Columbia	8,286	8,843	8,290	8,510	8,048	8,393	9,650	10,107	12,046	12,103
Florida	4,876	5,063	5,220	5,275	5,360	5,552	5,790	5,831	6,170	6,213
Georgia	4,368	4,569	4,828	5,056	5,369	5,647	6,092	6,437	6,929	7,380
Hawaii	5,332	5,532	5,597	5,560	5,633	5,858	6,081	6,530	6,596	7,306
Idaho	3,471	3,628	3,957	4,194	4,447	4,721	5,066	5,315	5,725	6,011
Illinois	5,307	5,323	5,553	5,519	5,940	6,242	6,762	7,133	7,643	7,956
Indiana	4,995	5,245	5,411	5,621	6,161	6,318	6,772	7,192	7,630	7,734
Iowa	4,970	5,070	5,240	5,481	5,738	5,998	6,243	6,564	6,930	7,338
Kansas	4,926	5,081	5,222	5,374	5,508	5,727	6,015	6,294	6,925	7,339
Kentucky	4,311	4,505	4,545	4,807	5,155	5,213	5,560	5,921	6,079	6,523
Louisiana	4,010	4,133	4,356	4,447	4,724	5,188	5,548	5,804	6,037	6,567
Maine	5,624	5,569	6,029	6,151	6,327	6,742	7,155	7,667	8,232	8,818
Maryland	6,060	6,191	6,427	6,593	6,755	7,034	7,326	7,731	8,256	8,692
Massachusetts	6,141	6,423	6,783	7,033	7,331	7,778	8,260	8,816	9,509	10,232

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Michigan	5,945	6,138	6,465	6,785	6,932	7,050	7,432	8,110	8,278	8,653
Minnesota	5,210	5,342	5,626	5,801	6,005	6,388	6,791	7,190	7,645	7,736
Mississippi	3,159	3,410	3,798	3,951	4,039	4,288	4,565	5,014	5,175	5,354
Missouri	4,318	4,547	4,866	5,092	5,304	5,565	5,855	6,187	6,657	7,135
Montana	4,907	5,043	5,137	5,249	5,481	5,724	5,974	6,314	6,726	7,062
Nebraska	5,064	5,310	5,555	5,688	5,848	5,958	6,256	6,683	7,223	7,741
Nevada	4,645	4,661	4,730	4,892	5,084	5,295	5,587	5,760	5,807	6,079
New Hampshire	5,368	5,433	5,567	5,740	5,920	6,156	6,433	6,860	7,286	7,935
New Jersey	8,770	9,075	9,178	9,361	9,588	9,643	10,145	10,337	11,248	11,793
New Mexico	3,929	4,106	4,412	4,604	4,682	5,005	5,440	5,825	6,313	6,882
New York	7,770	8,069	8,311	8,361	8,525	8,852	9,344	9,846	10,716	11,218
North Carolina	4,426	4,540	4,703	4,719	4,929	5,257	5,656	6,045	6,346	6,501
North Dakota	4,284	4,385	4,463	4,677	4,808	5,056	5,442	5,667	6,125	6,709
Ohio	5,332	5,319	5,529	5,669	5,935	6,198	6,627	7,065	7,571	8,069
Oklahoma	4,090	4,403	4,533	4,549	4,817	5,033	5,303	5,395	6,019	6,229
Oregon	5,585	5,522	5,649	5,790	5,920	6,419	6,828	7,149	7,528	7,642
Pennsylvania	6,372	6,443	6,565	6,922	7,106	7,209	7,450	7,772	8,210	8,537
Rhode Island	6,501	6,797	6,899	7,304	7,612	7,928	8,294	8,904	9,315	9,703
South Carolina	4,204	4,335	4,501	4,779	5,050	5,320	5,656	6,130	6,631	7,017
South Dakota	4,109	4,095	4,271	4,220	4,375	4,669	5,259	5,632	6,191	6,424
Tennessee	3,674	3,813	4,017	4,172	4,581	4,937	5,123	5,383	5,687	5,959
Texas	4,270	4,488	4,779	5,016	5,267	5,444	5,685	6,288	6,539	6,771
Utah	2,967	3,206	3,409	3,604	3,783	3,969	4,210	4,378	4,674	4,900
Vermont	6,342	6,266	6,367	6,488	6,753	7,075	7,541	8,323	9,153	9,806
Virginia	5,066	5,205	5,421	5,528	5,788	6,067	6,350	6,841	7,281	7,496
Washington	5,220	5,342	5,477	5,611	5,734	6,040	6,110	6,376	6,750	7,039

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
West Virginia	5,108	5,292	5,663	5,881	6,076	6,323	6,677	7,152	7,534	7,844
Wisconsin	5,974	6,126	6,301	6,517	6,796	7,123	7,527	7,806	8,243	8,634
Wyoming	5,462	5,534	5,753	5,826	5,971	6,218	6,842	7,425	7,835	8,645
Puerto Rico	2,034	2,250	2,417	2,763	2,902	3,211	3,298	3,404	3,685	3,563

Note(s):
The national total for public school expenditures for the United States includes U.S. territories. Please see source for information on estimation methodology; The national enrollment total for the United States includes U.S. territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Public Education Financial Survey (various years), data as of February 2018; U.S. Department of Education, National Center for Education Statistics, State Nonfiscal Survey of Public Elementary/Secondary Education (various years), data as of January 2018.

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Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

Expenditures per Pupil for Elementary and Secondary Public Schools

(Dollars)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	7,995	8,256	8,659	9,099	9,630	10,249	10,503	10,601	10,625	10,617
Alabama	6,300	6,581	7,073	7,683	8,398	9,197	8,964	8,907	8,726	8,577
Alaska	9,870	10,116	10,847	11,476	12,324	14,641	15,363	15,829	16,663	17,475
Arizona	6,282	5,999	6,307	6,515	7,316	7,727	8,022	7,870	7,782	7,383
Arkansas	6,482	6,842	7,659	8,030	8,391	8,677	8,854	9,281	9,496	9,536
California	7,552	7,673	7,905	8,301	8,952	9,706	9,503	9,300	9,146	9,220
Colorado	7,384	7,478	7,826	8,166	8,286	9,152	8,782	8,926	8,786	8,594
Connecticut	11,057	11,436	12,263	13,072	13,659	14,610	15,353	15,698	16,224	16,855
Delaware	9,693	10,212	10,911	11,621	11,760	12,153	12,109	12,222	12,467	13,580
District of Columbia	11,847	12,959	13,915	13,752	15,511	16,353	19,698	20,910	20,793	19,847
Florida	6,439	6,793	7,215	7,812	8,567	9,084	8,867	8,863	9,030	8,520
Georgia	7,774	7,742	8,065	8,595	9,102	9,718	9,649	9,432	9,259	9,272
Hawaii	8,100	8,533	8,997	9,876	11,316	11,800	12,400	11,855	11,924	11,973
Idaho	6,081	6,168	6,319	6,469	6,648	6,951	7,118	7,100	6,821	6,626
Illinois	8,287	8,606	8,896	9,113	9,596	10,353	11,084	11,737	11,739	12,008
Indiana	8,057	8,431	8,919	8,929	9,080	8,867	9,254	9,479	9,251	9,588
Iowa	7,574	7,626	7,962	8,355	8,760	9,275	9,704	9,748	9,795	10,027
Kansas	7,454	7,776	7,926	8,640	9,243	9,894	10,204	9,972	9,802	10,021
Kentucky	6,661	6,864	7,132	7,668	7,941	8,740	8,786	8,957	9,228	9,327
Louisiana	6,922	7,271	7,669	8,486	8,937	10,006	10,625	10,701	10,799	10,726
Maine	9,344	9,746	10,342	10,841	11,644	11,761	12,183	12,525	12,576	12,335
Maryland	9,153	9,433	10,031	10,909	11,989	13,257	13,737	14,007	13,946	13,875
Massachusetts	10,460	11,015	11,642	12,087	12,784	13,690	14,534	13,956	14,612	14,844

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	8,781	9,094	9,338	9,575	9,876	10,075	10,373	10,447	10,577	10,477
Minnesota	8,109	8,405	8,718	9,159	9,589	10,060	10,983	10,665	10,674	10,781
Mississippi	5,792	6,199	6,548	7,173	7,459	7,890	8,064	8,104	7,926	8,097
Missouri	7,495	7,542	7,858	8,273	8,646	9,297	9,617	9,721	9,461	9,514
Montana	7,496	7,825	8,133	8,626	9,141	9,749	10,120	10,565	10,719	10,569
Nebraska	8,074	8,452	8,794	9,324	9,825	10,199	10,436	10,880	11,208	11,492
Nevada	6,092	6,410	6,804	7,177	7,796	8,187	8,321	8,376	8,411	8,130
New Hampshire	8,579	9,161	9,771	10,396	11,036	11,951	12,583	13,072	13,548	13,774
New Jersey	12,568	13,338	14,117	14,954	16,163	17,620	16,973	17,379	16,855	17,982
New Mexico	7,125	7,572	7,834	8,354	8,849	9,291	9,648	9,621	9,250	9,013
New York	11,961	12,638	13,703	14,615	15,546	16,794	17,746	18,167	18,857	19,396
North Carolina	6,562	6,613	7,098	7,396	7,787	7,709	8,463	8,225	8,267	8,160
North Dakota	6,870	7,333	8,279	8,728	8,671	9,324	9,802	10,519	10,898	11,246
Ohio	8,632	9,029	9,330	9,692	9,937	10,340	10,669	11,224	11,395	11,323
Oklahoma	6,092	6,154	6,610	6,941	7,430	7,683	7,878	7,929	7,631	7,763
Oregon	7,491	7,618	8,069	8,645	8,958	9,565	9,611	9,268	9,516	9,485
Pennsylvania	8,997	9,708	10,235	10,723	10,905	11,741	12,299	12,729	13,096	13,091
Rhode Island	10,349	11,078	11,667	12,609	13,453	14,459	14,719	14,723	14,948	15,172
South Carolina	7,040	7,177	7,549	8,120	8,507	9,060	9,228	9,080	8,908	9,102
South Dakota	6,547	7,068	7,464	7,775	8,064	8,535	8,543	9,020	8,931	8,593
Tennessee	6,118	6,466	6,850	7,004	7,129	7,820	7,992	8,117	8,330	8,348
Texas	7,136	7,151	7,246	7,480	7,850	8,350	8,562	8,788	8,685	8,213
Utah	4,838	4,991	5,216	5,464	5,709	5,978	6,500	6,360	6,326	6,312
Vermont	10,454	11,211	11,972	12,805	13,629	14,421	15,096	15,666	14,707	16,651
Virginia	7,822	8,219	8,886	9,452	10,214	10,664	10,928	10,594	10,363	10,656
Washington	7,252	7,391	7,717	7,984	8,524	9,058	9,585	9,497	9,619	9,604

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	8,319	8,588	9,024	9,440	9,727	10,059	10,606	11,774	11,978	11,579
Wisconsin	9,004	9,240	9,755	9,993	10,300	10,709	11,097	11,423	11,846	11,141
Wyoming	8,985	9,308	10,190	11,437	13,200	13,790	14,552	15,140	15,711	15,896
Puerto Rico	4,260	4,147	4,979	5,470	6,006	6,520	6,955	7,021	7,429	7,403

Note(s):
The national total for public school expenditures for the United States includes U.S. territories. Please see source for information on estimation methodology; The national enrollment total for the United States includes U.S. territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Public Education Financial Survey (various years), data as of February 2018; U.S. Department of Education, National Center for Education Statistics, State Nonfiscal Survey of Public Elementary/Secondary Education (various years), data as of January 2018.

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Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

Expenditures per Pupil for Elementary and Secondary Public Schools

(Dollars)

State	2013	2014	2015
United States	10,744	11,036	11,408
Alabama	8,773	9,036	9,146
Alaska	18,217	18,466	20,191
Arizona	7,495	7,427	7,530
Arkansas	9,538	9,752	9,805
California	9,258	9,671	10,449
Colorado	8,693	9,036	9,292
Connecticut	17,321	18,401	19,020
Delaware	13,653	13,793	13,882
District of Columbia	20,451	20,537	20,610
Florida	8,623	8,955	9,113
Georgia	9,121	9,236	9,476
Hawaii	11,790	12,400	12,855
Idaho	6,761	6,577	6,929
Illinois	12,439	13,203	13,923
Indiana	9,421	9,396	9,529
Iowa	10,291	10,647	10,938
Kansas	10,011	10,240	10,329
Kentucky	9,274	9,411	9,560
Louisiana	10,539	10,853	11,106
Maine	12,694	13,267	13,911
Maryland	14,086	14,217	14,431
Massachusetts	15,321	15,886	16,450

State Indicators

State	2013	2014	2015
Michigan	10,515	10,649	10,956
Minnesota	11,065	11,427	11,924
Mississippi	8,117	8,265	8,445
Missouri	9,702	9,938	10,231
Montana	10,662	10,941	11,078
Nebraska	11,743	11,877	12,174
Nevada	8,026	8,275	8,451
New Hampshire	14,050	14,601	14,969
New Jersey	18,523	18,780	18,559
New Mexico	9,164	9,403	9,724
New York	19,529	20,156	20,744
North Carolina	8,342	8,287	8,529
North Dakota	11,615	12,383	12,884
Ohio	11,276	11,434	11,730
Oklahoma	7,914	7,995	8,075
Oregon	9,183	9,524	9,927
Pennsylvania	13,445	13,824	14,405
Rhode Island	14,889	15,372	15,797
South Carolina	9,444	9,608	9,831
South Dakota	8,630	9,036	9,103
Tennessee	8,588	8,662	8,776
Texas	8,285	8,602	9,081
Utah	6,432	6,546	6,751
Vermont	17,286	18,066	18,769
Virginia	10,960	10,955	11,235
Washington	9,714	10,305	10,684

State Indicators

State	2013	2014	2015
West Virginia	11,264	11,371	11,512
Wisconsin	11,186	11,345	11,538
Wyoming	15,722	15,815	16,047
Puerto Rico	8,460	8,281	7,902

Note(s):
The national total for public school expenditures for the United States includes U.S. territories. Please see source for information on estimation methodology; The national enrollment total for the United States includes U.S. territories.

Source(s):
U.S. Department of Education, National Center for Education Statistics, National Public Education Financial Survey (various years), data as of February 2018; U.S. Department of Education, National Center for Education Statistics, State Nonfiscal Survey of Public Elementary/Secondary Education (various years), data as of January 2018.

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Science and Engineering Indicators 2018

State Indicators

Public school expenditures

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
United States	222,992,392	233,291,720	245,703,310	257,168,777	272,313,329	287,860,809	305,130,470	326,202,323	350,643,209	370,851,906
Alabama	2,610,514	2,809,713	3,026,287	3,240,364	3,436,406	3,633,159	3,880,188	4,176,082	4,354,794	4,444,390
Alaska	967,765	1,002,515	1,020,675	1,045,022	1,069,379	1,092,750	1,137,610	1,183,499	1,229,036	1,284,854
Arizona	2,753,510	2,911,304	3,144,540	3,327,969	3,527,473	3,740,638	3,963,428	4,288,739	4,632,539	5,499,645
Arkansas	1,703,604	1,782,645	1,873,595	1,994,748	2,074,113	2,149,237	2,241,244	2,380,331	2,505,179	2,822,877
California	24,219,792	25,140,639	25,949,033	27,334,639	29,909,168	32,759,492	34,379,878	38,129,479	42,908,787	46,265,544
Colorado	2,919,916	2,954,793	3,232,976	3,360,529	3,577,211	3,886,872	4,140,699	4,401,010	4,758,173	5,151,003
Connecticut	3,737,765	3,943,894	4,247,327	4,366,123	4,522,716	4,765,077	5,075,581	5,402,836	5,693,207	6,031,062
Delaware	599,893	643,915	694,473	726,241	788,715	830,731	872,786	937,630	1,027,224	1,072,875
District of Columbia	670,654	713,427	666,938	679,106	632,952	647,202	693,716	780,192	830,299	912,432
Florida	9,661,012	10,331,896	11,019,735	11,480,359	12,018,676	12,737,325	13,534,374	13,885,988	15,023,514	15,535,864
Georgia	5,273,143	5,643,843	6,136,689	6,629,646	7,230,405	7,770,241	8,537,177	9,158,624	10,011,343	10,853,496
Hawaii	946,074	998,143	1,028,729	1,040,682	1,057,069	1,112,351	1,143,713	1,213,695	1,215,968	1,348,381
Idaho	804,231	859,088	951,350	1,019,594	1,090,597	1,153,778	1,239,755	1,302,817	1,403,190	1,481,803
Illinois	9,942,737	10,076,889	10,640,279	10,727,091	11,720,249	12,473,064	13,602,965	14,462,773	15,658,682	16,480,787
Indiana	4,797,946	5,064,685	5,243,761	5,493,653	6,055,055	6,234,563	6,697,468	7,110,930	7,548,487	7,704,547
Iowa	2,459,141	2,527,434	2,622,510	2,753,425	2,885,943	3,005,421	3,110,585	3,264,336	3,430,885	3,565,796
Kansas	2,224,080	2,325,247	2,406,580	2,488,077	2,568,525	2,684,244	2,841,147	2,971,814	3,258,807	3,450,923
Kentucky	2,823,993	2,952,119	2,988,892	3,171,495	3,382,062	3,489,205	3,645,631	3,837,794	4,047,392	4,268,608
Louisiana	3,199,842	3,309,020	3,475,926	3,545,832	3,747,507	4,030,379	4,264,981	4,391,189	4,485,878	4,802,565
Maine	1,217,418	1,208,411	1,281,706	1,313,759	1,351,500	1,433,175	1,510,024	1,604,438	1,704,422	1,812,798
Maryland	4,556,233	4,783,023	5,083,380	5,311,207	5,529,309	5,843,685	6,165,934	6,545,135	7,041,586	7,480,723
Massachusetts	5,281,067	5,637,337	6,062,303	6,435,458	6,846,610	7,381,784	7,948,502	8,564,039	9,272,387	9,957,292
Michigan	9,532,994	9,816,830	10,440,206	11,137,877	11,686,124	12,003,818	12,785,480	13,994,294	14,243,597	14,975,150

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Minnesota	4,135,284	4,328,093	4,622,930	4,844,879	5,087,353	5,452,571	5,816,329	6,140,442	6,531,198	6,586,559
Mississippi	1,600,752	1,725,386	1,921,480	2,000,321	2,035,675	2,164,592	2,293,188	2,510,376	2,576,457	2,642,116
Missouri	3,710,426	3,981,614	4,275,217	4,531,192	4,775,931	5,067,720	5,348,366	5,655,531	6,076,169	6,491,603
Montana	785,159	822,015	844,257	868,892	902,252	929,197	955,695	994,770	1,041,760	1,073,005
Nebraska	1,430,039	1,513,971	1,594,928	1,648,104	1,707,455	1,743,775	1,821,310	1,926,500	2,067,290	2,206,946
Nevada	1,035,623	1,099,058	1,186,132	1,296,629	1,434,395	1,570,576	1,738,009	1,875,467	1,978,480	2,169,000
New Hampshire	972,963	1,007,129	1,053,966	1,114,540	1,173,958	1,241,255	1,316,946	1,418,503	1,518,792	1,641,378
New Jersey	9,915,429	10,448,096	10,776,982	11,208,558	11,771,941	12,056,560	12,874,579	13,327,645	14,773,650	15,822,609
New Mexico	1,240,310	1,323,459	1,443,789	1,517,517	1,557,376	1,659,891	1,788,382	1,890,274	2,022,093	2,204,165
New York	20,898,267	22,059,949	22,989,629	23,522,461	24,237,291	25,332,735	26,885,444	28,433,240	30,884,292	32,218,975
North Carolina	4,930,704	5,145,420	5,440,426	5,582,994	5,964,939	6,497,648	7,097,882	7,713,293	8,209,954	8,550,546
North Dakota	508,648	522,377	532,398	557,043	577,498	599,443	625,428	638,946	668,814	711,437
Ohio	9,572,879	9,612,678	10,030,956	10,408,022	10,948,074	11,448,722	12,207,147	12,974,575	13,893,495	14,774,065
Oklahoma	2,442,320	2,659,460	2,763,721	2,804,088	2,990,044	3,138,690	3,332,697	3,382,581	3,750,542	3,875,547
Oregon	2,849,009	2,852,723	2,948,539	3,056,801	3,184,100	3,474,714	3,706,044	3,896,287	4,112,069	4,214,512
Pennsylvania	10,944,392	11,236,417	11,587,027	12,374,073	12,820,704	13,084,859	13,532,211	14,120,112	14,895,316	15,550,975
Rhode Island	934,815	990,094	1,017,554	1,094,185	1,151,888	1,215,595	1,283,859	1,393,143	1,465,703	1,533,455
South Carolina	2,690,009	2,790,878	2,920,230	3,085,495	3,296,661	3,507,017	3,759,042	4,087,355	4,492,161	4,744,809
South Dakota	553,005	584,894	612,825	610,640	627,109	665,082	696,785	737,998	796,133	819,296
Tennessee	3,139,223	3,305,579	3,540,682	3,728,486	4,145,380	4,409,338	4,638,924	4,931,734	5,170,379	5,511,452
Texas	15,121,655	16,193,722	17,572,269	18,801,462	20,167,238	21,188,676	22,430,153	25,098,703	26,546,557	28,191,128
Utah	1,376,319	1,511,205	1,618,047	1,719,782	1,822,725	1,916,688	2,025,714	2,102,655	2,250,339	2,374,702
Vermont	625,064	643,828	665,559	684,864	718,092	749,786	792,664	870,198	934,031	992,149
Virginia	5,228,196	5,441,388	5,750,318	5,969,608	6,343,766	6,739,003	7,137,421	7,757,598	8,335,805	8,718,554
Washington	4,679,873	4,892,690	5,138,931	5,367,559	5,587,808	5,986,648	6,098,036	6,399,885	6,782,127	7,103,721
West Virginia	1,626,005	1,663,868	1,758,557	1,806,004	1,847,560	1,905,940	1,986,562	2,086,937	2,157,568	2,219,013

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Wisconsin	4,954,900	5,170,343	5,422,264	5,670,826	5,975,122	6,280,696	6,620,653	6,852,178	7,249,081	7,592,176
Wyoming	547,938	558,353	577,144	581,817	591,488	603,901	651,622	683,918	704,695	761,830
Puerto Rico	1,295,452	1,420,580	1,501,485	1,734,033	1,796,077	1,981,603	2,024,499	2,086,414	2,257,837	2,152,724

Science and Engineering Indicators 2018

State Indicators

Public school expenditures

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	390,357,693	406,229,696	428,167,865	452,686,862	480,571,874	510,857,571	522,990,858	528,767,674	531,442,782	531,181,458
Alabama	4,657,643	4,812,479	5,164,406	5,699,076	6,245,031	6,832,439	6,683,843	6,670,517	6,592,925	6,386,517
Alaska	1,326,226	1,354,846	1,442,269	1,529,645	1,634,316	1,918,375	2,007,319	2,084,019	2,201,270	2,292,205
Arizona	5,891,105	6,071,785	6,579,957	7,130,341	7,815,720	8,403,221	8,726,755	8,482,552	8,340,211	7,976,089
Arkansas	2,923,401	3,109,644	3,546,999	3,808,011	3,997,701	4,156,368	4,240,839	4,459,910	4,578,136	4,606,995
California	47,983,402	49,215,866	50,918,654	53,436,103	57,352,599	61,570,555	60,080,929	58,248,662	57,526,835	57,975,189
Colorado	5,551,506	5,666,191	5,994,440	6,368,289	6,579,053	7,338,766	7,187,267	7,429,302	7,409,462	7,341,585
Connecticut	6,302,988	6,600,767	7,080,396	7,517,025	7,855,459	8,336,789	8,708,294	8,853,337	9,094,036	9,344,999
Delaware	1,127,745	1,201,631	1,299,349	1,405,465	1,437,707	1,489,594	1,518,786	1,549,812	1,613,304	1,751,143
District of Columbia	902,318	1,011,536	1,067,500	1,057,166	1,130,006	1,282,437	1,352,905	1,451,870	1,482,202	1,466,888
Florida	16,355,123	17,578,884	19,042,877	20,897,327	22,887,024	24,224,114	23,328,028	23,349,314	23,870,090	22,732,752
Georgia	11,630,576	11,788,616	12,528,856	13,739,263	14,828,715	16,030,039	15,976,945	15,730,409	15,527,907	15,623,633
Hawaii	1,489,092	1,566,792	1,648,086	1,805,521	2,045,198	2,122,779	2,225,438	2,136,144	2,141,561	2,187,480
Idaho	1,511,862	1,555,006	1,618,215	1,694,827	1,777,491	1,891,505	1,957,740	1,961,857	1,881,746	1,854,556
Illinois	17,271,301	18,081,827	18,658,428	19,244,908	20,326,591	21,874,484	23,495,271	24,695,773	24,554,467	25,012,915
Indiana	8,088,684	8,524,980	9,108,931	9,241,986	9,497,077	9,281,709	9,680,895	9,921,243	9,687,949	9,978,491
Iowa	3,652,022	3,669,797	3,808,200	4,039,389	4,231,932	4,499,236	4,731,463	4,794,308	4,855,871	4,971,944
Kansas	3,510,675	3,658,421	3,718,153	4,039,417	4,339,477	4,633,517	4,806,603	4,731,676	4,741,372	4,871,381
Kentucky	4,401,627	4,553,382	4,812,591	5,213,620	5,424,621	5,822,550	5,886,890	6,091,814	6,211,453	6,360,799
Louisiana	5,056,583	5,290,964	5,554,766	5,554,278	6,040,368	6,814,455	7,276,651	7,393,452	7,522,098	7,544,782
Maine	1,909,268	1,969,497	2,056,266	2,119,408	2,258,764	2,308,071	2,350,447	2,370,085	2,377,878	2,330,842
Maryland	7,933,055	8,198,454	8,682,586	9,381,613	10,210,303	11,211,176	11,591,965	11,883,677	11,885,333	11,850,634
Massachusetts	10,281,820	10,799,765	11,357,857	11,747,010	12,383,447	13,182,987	13,937,097	13,356,373	13,962,366	14,151,659
Michigan	15,674,698	15,983,044	16,353,921	16,681,981	17,013,259	17,053,521	17,217,584	17,227,515	16,786,444	16,485,178

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	6,867,403	7,084,005	7,310,284	7,686,638	8,060,410	8,426,264	9,182,281	8,927,288	8,944,867	9,053,021
Mississippi	2,853,531	3,059,569	3,243,888	3,550,261	3,692,358	3,898,401	3,967,232	3,990,876	3,887,981	3,972,787
Missouri	6,793,957	6,832,454	7,115,207	7,592,485	7,957,705	8,526,641	8,827,224	8,923,448	8,691,887	8,719,925
Montana	1,124,291	1,160,838	1,193,182	1,254,360	1,320,112	1,392,449	1,436,062	1,498,252	1,518,818	1,504,531
Nebraska	2,304,223	2,413,404	2,512,914	2,672,629	2,825,608	2,970,323	3,053,575	3,213,646	3,345,530	3,462,575
Nevada	2,251,044	2,470,581	2,722,264	2,959,728	3,311,471	3,515,004	3,606,035	3,592,994	3,676,997	3,574,233
New Hampshire	1,781,594	1,900,240	2,021,144	2,139,113	2,246,692	2,399,330	2,490,623	2,576,956	2,637,911	2,643,256
New Jersey	17,185,966	18,416,695	19,669,576	20,869,993	22,448,262	24,357,079	23,446,911	24,261,392	23,639,281	24,391,278
New Mexico	2,281,608	2,446,115	2,554,638	2,729,707	2,904,474	3,057,061	3,186,252	3,217,328	3,127,463	3,039,461
New York	34,546,965	36,205,111	38,866,853	41,149,457	43,679,908	46,443,426	48,635,363	50,251,461	51,574,134	52,460,494
North Carolina	8,766,968	8,994,620	9,835,550	10,476,056	11,248,336	11,482,912	12,598,382	12,200,362	12,322,555	12,303,426
North Dakota	716,007	749,697	832,157	857,774	838,221	886,317	928,528	1,000,095	1,049,772	1,098,090
Ohio	15,868,494	16,662,985	17,167,866	17,829,599	18,251,361	18,892,374	19,387,318	19,801,670	19,988,921	19,701,810
Oklahoma	3,804,570	3,853,308	4,161,024	4,406,002	4,750,536	4,932,913	5,082,062	5,192,124	5,036,031	5,170,978
Oregon	4,150,747	4,199,485	4,458,028	4,773,751	5,039,632	5,409,630	5,529,831	5,401,667	5,430,888	5,389,273
Pennsylvania	16,344,439	17,680,332	18,711,100	19,631,006	20,404,304	21,157,430	21,831,816	22,733,518	23,485,203	23,190,198
Rhode Island	1,647,587	1,765,585	1,825,900	1,934,429	2,039,633	2,134,609	2,139,317	2,136,582	2,149,366	2,167,450
South Carolina	4,888,250	5,017,833	5,312,739	5,696,629	6,023,043	6,453,817	6,626,763	6,566,165	6,465,486	6,619,072
South Dakota	851,429	887,328	916,563	948,671	977,006	1,037,875	1,080,054	1,115,861	1,126,503	1,100,100
Tennessee	5,674,773	6,056,657	6,446,691	6,681,445	6,975,099	7,540,306	7,768,063	7,894,661	8,225,374	8,345,584
Texas	30,399,603	30,974,890	31,919,107	33,851,773	36,105,784	39,033,235	40,688,181	42,621,886	42,864,291	41,067,619
Utah	2,366,897	2,475,550	2,627,022	2,778,236	2,987,810	3,444,936	3,638,775	3,635,085	3,704,133	3,779,760
Vermont	1,045,213	1,111,029	1,177,478	1,237,442	1,300,149	1,356,165	1,413,329	1,432,683	1,424,507	1,497,093
Virginia	9,208,329	9,798,239	10,705,162	11,470,735	12,465,858	13,125,666	13,505,290	13,193,633	12,968,457	13,403,576
Washington	7,359,566	7,549,235	7,870,979	8,239,716	8,752,007	9,331,539	9,940,325	9,832,913	10,040,312	10,040,607
West Virginia	2,349,833	2,415,043	2,527,767	2,651,491	2,742,344	2,841,962	2,998,657	3,328,177	3,388,294	3,275,246

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	7,934,755	8,131,276	8,435,359	8,745,195	9,029,660	9,366,134	9,696,228	9,966,244	10,333,016	9,704,932
Wyoming	791,732	814,092	863,423	965,350	1,124,564	1,191,736	1,268,407	1,334,655	1,398,444	1,432,216
Puerto Rico	2,541,385	2,425,372	2,865,945	3,082,295	3,268,200	3,433,229	3,502,757	3,464,044	3,519,547	3,351,423

Science and Engineering Indicators 2018

State Indicators

Public school expenditures

State	2013	2014	2015
United States	540,039,802	557,607,993	579,160,324
Alabama	6,532,358	6,742,829	6,806,467
Alaska	2,395,354	2,418,000	2,648,552
Arizona	8,164,529	8,187,607	8,370,884
Arkansas	4,637,169	4,778,074	4,813,321
California	58,323,458	61,050,894	65,953,946
Colorado	7,506,978	7,924,319	8,260,461
Connecticut	9,543,010	10,050,439	10,321,511
Delaware	1,761,559	1,816,383	1,860,732
District of Columbia	1,557,117	1,605,030	1,668,528
Florida	23,214,634	24,363,817	25,123,548
Georgia	15,536,733	15,921,673	16,530,506
Hawaii	2,178,284	2,316,586	2,344,496
Idaho	1,925,676	1,949,963	2,015,654
Illinois	25,783,911	27,289,963	28,545,089
Indiana	9,811,166	9,841,337	9,970,350
Iowa	5,143,771	5,354,843	5,526,877
Kansas	4,895,863	5,083,374	5,136,532
Kentucky	6,354,306	6,375,119	6,583,287
Louisiana	7,492,539	7,721,469	7,960,448
Maine	2,357,739	2,441,064	2,538,313
Maryland	12,108,546	12,314,446	12,620,036
Massachusetts	14,627,898	15,183,018	15,723,617
Michigan	16,354,807	16,493,575	16,849,135

State Indicators

State	2013	2014	2015
Minnesota	9,354,376	9,723,759	10,222,017
Mississippi	4,006,798	4,071,006	4,145,632
Missouri	8,905,756	9,125,949	9,390,061
Montana	1,523,696	1,576,937	1,601,097
Nebraska	3,563,939	3,654,376	3,805,871
Nevada	3,577,346	3,738,777	3,880,472
New Hampshire	2,655,077	2,720,225	2,764,233
New Jersey	25,417,320	25,733,921	25,993,208
New Mexico	3,099,308	3,189,842	3,309,622
New York	52,938,586	55,080,662	56,862,010
North Carolina	12,666,607	12,685,461	13,210,839
North Dakota	1,174,364	1,287,133	1,373,266
Ohio	19,506,123	19,714,149	20,231,423
Oklahoma	5,329,897	5,451,048	5,560,047
Oregon	5,395,742	5,647,470	5,969,321
Pennsylvania	23,712,931	24,264,551	25,109,991
Rhode Island	2,121,403	2,182,976	2,242,486
South Carolina	6,950,410	7,163,995	7,437,182
South Dakota	1,125,929	1,182,721	1,211,080
Tennessee	8,531,675	8,606,624	8,736,367
Texas	42,066,035	44,330,579	47,527,971
Utah	3,944,736	4,094,074	4,290,876
Vermont	1,549,228	1,602,256	1,638,720
Virginia	13,868,587	13,955,249	14,384,705
Washington	10,216,676	10,911,929	11,470,245
West Virginia	3,188,181	3,194,770	3,226,918

State Indicators

State	2013	2014	2015
Wisconsin	9,758,650	9,920,370	10,054,346
Wyoming	1,439,041	1,466,579	1,509,532
Puerto Rico	3,676,880	3,510,706	3,247,136
Science and Engineering Indicators 2018			

State Indicators

Student enrollment

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
United States	43,527,620	44,184,072	44,810,788	45,547,183	46,309,492	46,823,094	47,230,515	47,549,194	47,893,902	48,329,297
Alabama	730,857	734,469	736,531	746,149	747,932	749,207	747,980	740,732	739,992	737,190
Alaska	122,487	125,948	127,057	127,618	129,919	132,123	135,373	134,391	133,356	134,358
Arizona	673,477	709,453	737,424	743,566	799,250	814,113	848,262	852,612	877,696	922,180
Arkansas	441,490	444,271	447,565	453,257	457,349	456,497	452,256	451,034	449,959	449,805
California	5,249,275	5,328,558	5,407,475	5,536,406	5,686,198	5,803,887	5,926,037	6,038,590	6,140,814	6,223,821
Colorado	612,635	625,062	640,521	656,279	673,438	687,167	699,135	708,109	724,508	742,145
Connecticut	488,476	496,298	506,824	517,935	527,129	535,164	544,698	553,993	562,179	570,228
Delaware	104,321	105,547	106,813	108,461	110,549	111,960	113,262	112,836	114,676	115,560
District of Columbia	80,937	80,678	80,450	79,802	78,648	77,111	71,889	77,194	68,925	75,392
Florida	1,981,407	2,040,763	2,111,188	2,176,222	2,242,212	2,294,077	2,337,633	2,381,396	2,434,821	2,500,478
Georgia	1,207,186	1,235,304	1,270,948	1,311,126	1,346,761	1,375,980	1,401,291	1,422,762	1,444,937	1,470,634
Hawaii	177,448	180,430	183,795	187,180	187,653	189,887	188,069	185,860	184,360	184,546
Idaho	231,668	236,774	240,448	243,097	245,252	244,403	244,722	245,136	245,117	246,521
Illinois	1,873,567	1,893,078	1,916,172	1,943,623	1,973,040	1,998,289	2,011,530	2,027,600	2,048,792	2,071,391
Indiana	960,630	965,599	969,022	977,263	982,876	986,836	989,001	988,702	989,267	996,133
Iowa	494,839	498,519	500,440	502,343	502,941	501,054	498,214	497,301	495,080	485,932
Kansas	451,536	457,614	460,838	463,008	466,293	468,687	472,353	472,188	470,610	470,205
Kentucky	655,041	655,265	657,642	659,821	656,089	669,322	655,687	648,180	665,850	654,363
Louisiana	797,985	800,560	797,933	797,366	793,296	776,813	768,734	756,579	743,089	731,328
Maine	216,453	216,995	212,601	213,569	213,593	212,579	211,051	209,253	207,037	205,586
Maryland	751,850	772,638	790,938	805,544	818,583	830,744	841,671	846,582	852,920	860,640
Massachusetts	859,948	877,726	893,727	915,007	933,898	949,006	962,317	971,425	975,150	973,140
Michigan	1,603,610	1,599,377	1,614,784	1,641,456	1,685,714	1,702,717	1,720,287	1,725,639	1,720,626	1,730,668

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Minnesota	793,724	810,233	821,693	835,166	847,204	853,621	856,455	854,034	854,340	851,384
Mississippi	506,668	505,907	505,962	506,272	503,967	504,792	502,379	500,716	497,871	493,507
Missouri	859,357	875,639	878,541	889,881	900,517	910,613	913,494	914,110	912,744	909,792
Montana	160,011	163,009	164,341	165,547	164,627	162,335	159,988	157,556	154,875	151,947
Nebraska	282,414	285,097	287,100	289,744	291,967	292,681	291,140	288,261	286,199	285,095
Nevada	222,974	235,800	250,747	265,041	282,131	296,621	311,061	325,610	340,706	356,814
New Hampshire	181,247	185,360	189,319	194,171	198,308	201,629	204,713	206,783	208,461	206,847
New Jersey	1,130,560	1,151,307	1,174,206	1,197,381	1,227,832	1,250,276	1,268,996	1,289,256	1,313,405	1,341,656
New Mexico	315,668	322,292	327,248	329,640	332,632	331,673	328,753	324,495	320,306	320,260
New York	2,689,686	2,733,813	2,766,208	2,813,230	2,843,131	2,861,823	2,877,143	2,887,776	2,882,188	2,872,132
North Carolina	1,114,083	1,133,231	1,156,767	1,183,090	1,210,108	1,236,083	1,254,821	1,275,925	1,293,638	1,315,363
North Dakota	118,734	119,127	119,288	119,100	120,123	118,572	114,927	112,751	109,201	106,047
Ohio	1,795,199	1,807,319	1,814,290	1,836,015	1,844,698	1,847,114	1,842,163	1,836,554	1,835,049	1,830,985
Oklahoma	597,096	604,076	609,718	616,393	620,695	623,681	628,492	627,032	623,110	622,139
Oregon	510,122	516,611	521,945	527,914	537,854	541,346	542,809	545,033	546,231	551,480
Pennsylvania	1,717,613	1,744,082	1,764,946	1,787,533	1,804,256	1,815,151	1,816,414	1,816,716	1,814,311	1,821,627
Rhode Island	143,798	145,676	147,487	149,799	151,324	153,321	154,785	156,454	157,347	158,046
South Carolina	639,942	643,859	648,725	645,586	652,816	659,273	664,600	666,780	677,411	676,198
South Dakota	134,573	142,825	143,482	144,685	143,331	142,443	132,495	131,037	128,603	127,542
Tennessee	854,329	866,991	881,425	893,770	904,818	893,044	905,454	916,202	909,161	924,899
Texas	3,541,769	3,608,262	3,677,171	3,748,167	3,828,975	3,891,877	3,945,367	3,991,783	4,059,619	4,163,447
Utah	463,870	471,365	474,675	477,121	481,812	482,957	481,176	480,255	481,485	484,677
Vermont	98,558	102,755	104,533	105,565	106,341	105,984	105,120	104,559	102,049	101,179
Virginia	1,031,925	1,045,471	1,060,809	1,079,854	1,096,093	1,110,815	1,124,022	1,133,994	1,144,915	1,163,091
Washington	896,475	915,952	938,314	956,572	974,504	991,235	998,053	1,003,714	1,004,770	1,009,200
West Virginia	318,296	314,383	310,511	307,112	304,052	301,419	297,530	291,811	286,367	282,885

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Wisconsin	829,415	844,001	860,581	870,175	879,259	881,780	879,542	877,753	879,476	879,361
Wyoming	100,313	100,899	100,314	99,859	99,058	97,115	95,241	92,105	89,940	88,128
Puerto Rico	637,034	631,460	621,121	627,620	618,861	617,157	613,862	613,019	612,725	604,177

Science and Engineering Indicators 2018

State Indicators

Student enrollment

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	48,825,156	49,201,556	49,445,874	49,752,680	49,904,359	49,844,326	49,795,888	49,880,829	50,016,134	50,032,374
Alabama	739,366	731,220	730,140	741,761	743,632	742,919	745,668	748,889	755,552	744,621
Alaska	134,364	133,933	132,970	133,288	132,608	131,029	130,662	131,661	132,104	131,167
Arizona	937,755	1,012,068	1,043,298	1,094,454	1,068,249	1,087,447	1,087,817	1,077,831	1,071,751	1,080,319
Arkansas	450,985	454,523	463,115	474,206	476,409	479,016	478,965	480,559	482,114	483,114
California	6,353,667	6,413,867	6,441,557	6,437,202	6,406,750	6,343,471	6,322,528	6,263,438	6,289,578	6,287,834
Colorado	751,862	757,693	765,976	779,826	794,026	801,867	818,443	832,368	843,316	854,265
Connecticut	570,023	577,203	577,390	575,059	575,100	570,626	567,198	563,968	560,546	554,437
Delaware	116,342	117,668	119,091	120,937	122,254	122,574	125,430	126,801	129,403	128,946
District of Columbia	76,166	78,057	76,714	76,876	72,850	78,422	68,681	69,433	71,284	73,911
Florida	2,539,929	2,587,628	2,639,336	2,675,024	2,671,513	2,666,811	2,631,020	2,634,522	2,643,347	2,668,156
Georgia	1,496,012	1,522,611	1,553,437	1,598,461	1,629,157	1,649,589	1,655,792	1,667,685	1,677,067	1,685,016
Hawaii	183,829	183,609	183,185	182,818	180,728	179,897	179,478	180,196	179,601	182,706
Idaho	248,604	252,120	256,084	261,982	267,380	272,119	275,051	276,299	275,859	279,873
Illinois	2,084,187	2,100,961	2,097,503	2,111,706	2,118,276	2,112,805	2,119,707	2,104,175	2,091,654	2,083,097
Indiana	1,003,875	1,011,130	1,021,348	1,035,074	1,045,940	1,046,764	1,046,147	1,046,661	1,047,232	1,040,765
Iowa	482,210	481,226	478,319	483,482	483,122	485,115	487,559	491,842	495,775	495,870
Kansas	470,957	470,490	469,136	467,525	469,506	468,295	471,060	474,489	483,701	486,108
Kentucky	660,782	663,369	674,796	679,878	683,152	666,225	670,030	680,089	673,128	681,987
Louisiana	730,464	727,709	724,281	654,526	675,851	681,038	684,873	690,915	696,558	703,390
Maine	204,337	202,084	198,820	195,498	193,986	196,245	192,935	189,225	189,077	188,969
Maryland	866,743	869,113	865,561	860,020	851,640	845,700	843,861	848,412	852,211	854,086
Massachusetts	982,989	980,459	975,574	971,909	968,661	962,958	958,910	957,053	955,563	953,369
Michigan	1,785,160	1,757,604	1,751,290	1,742,282	1,722,656	1,692,739	1,659,921	1,649,082	1,587,067	1,573,537

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	846,891	842,854	838,503	839,243	840,565	837,578	836,048	837,053	838,037	839,738
Mississippi	492,645	493,540	495,376	494,954	495,026	494,122	491,962	492,481	490,526	490,619
Missouri	906,499	905,941	905,449	917,705	920,353	917,188	917,871	917,982	918,710	916,584
Montana	149,995	148,356	146,705	145,416	144,418	142,823	141,899	141,807	141,693	142,349
Nebraska	285,402	285,542	285,761	286,646	287,580	291,244	292,590	295,368	298,500	301,296
Nevada	369,498	385,401	400,083	412,395	424,766	429,362	433,371	428,947	437,149	439,634
New Hampshire	207,671	207,417	206,852	205,767	203,572	200,772	197,934	197,140	194,711	191,900
New Jersey	1,367,438	1,380,753	1,393,347	1,395,602	1,388,850	1,382,348	1,381,420	1,396,029	1,402,548	1,356,431
New Mexico	320,234	323,066	326,102	326,758	328,220	329,040	330,245	334,419	338,122	337,225
New York	2,888,233	2,864,775	2,836,337	2,815,581	2,809,649	2,765,435	2,740,592	2,766,052	2,734,955	2,704,718
North Carolina	1,335,954	1,360,209	1,385,754	1,416,436	1,444,481	1,489,492	1,488,645	1,483,397	1,490,605	1,507,864
North Dakota	104,225	102,233	100,513	98,283	96,670	95,059	94,728	95,073	96,323	97,646
Ohio	1,838,285	1,845,428	1,840,032	1,839,683	1,836,722	1,827,184	1,817,163	1,764,297	1,754,191	1,740,030
Oklahoma	624,548	626,160	629,476	634,739	639,391	642,065	645,108	654,802	659,911	666,120
Oregon	554,071	551,273	552,505	552,194	562,574	565,586	575,393	582,839	570,720	568,208
Pennsylvania	1,816,747	1,821,146	1,828,089	1,830,684	1,871,060	1,801,971	1,775,029	1,785,993	1,793,284	1,771,395
Rhode Island	159,205	159,375	156,498	153,422	151,612	147,629	145,342	145,118	143,793	142,854
South Carolina	694,389	699,198	703,736	701,544	708,021	712,317	718,113	723,143	725,838	727,186
South Dakota	130,048	125,537	122,798	122,012	121,158	121,606	126,429	123,713	126,128	128,016
Tennessee	927,608	936,682	941,091	953,928	978,368	964,259	971,950	972,549	987,422	999,693
Texas	4,259,823	4,331,751	4,405,215	4,525,394	4,599,509	4,674,832	4,752,148	4,850,210	4,935,715	5,000,470
Utah	489,262	495,981	503,607	508,430	523,386	576,244	559,778	571,586	585,552	598,832
Vermont	99,978	99,103	98,352	96,638	95,399	94,038	93,625	91,451	96,858	89,908
Virginia	1,177,229	1,192,092	1,204,739	1,213,616	1,220,440	1,230,857	1,235,795	1,245,340	1,251,440	1,257,883
Washington	1,014,798	1,021,349	1,020,005	1,031,985	1,026,774	1,030,247	1,037,018	1,035,347	1,043,788	1,045,453
West Virginia	282,455	281,215	280,129	280,866	281,939	282,535	282,729	282,662	282,879	282,870

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	881,231	880,031	864,757	875,174	876,700	874,633	873,750	872,436	872,286	871,105
Wyoming	88,116	87,462	84,733	84,409	85,193	86,422	87,161	88,155	89,009	90,099
Puerto Rico	596,502	584,916	575,648	563,490	544,138	526,565	503,635	493,393	473,735	452,740

Science and Engineering Indicators 2018

State Indicators

Student enrollment

State	2013	2014	2015
United States	50,262,751	50,527,461	50,768,916
Alabama	744,637	746,204	744,164
Alaska	131,489	130,944	131,176
Arizona	1,089,384	1,102,445	1,111,695
Arkansas	486,157	489,979	490,917
California	6,299,451	6,312,623	6,312,161
Colorado	863,561	876,999	889,006
Connecticut	550,954	546,200	542,678
Delaware	129,026	131,687	134,042
District of Columbia	76,140	78,153	80,958
Florida	2,692,162	2,720,744	2,756,944
Georgia	1,703,332	1,723,909	1,744,437
Hawaii	184,760	186,825	182,384
Idaho	284,834	296,476	290,885
Illinois	2,072,880	2,066,990	2,050,239
Indiana	1,041,369	1,047,385	1,046,269
Iowa	499,825	502,964	505,311
Kansas	489,043	496,440	497,275
Kentucky	685,167	677,389	688,640
Louisiana	710,903	711,491	716,800
Maine	185,739	183,995	182,470
Maryland	859,638	866,169	874,514
Massachusetts	954,773	955,739	955,844
Michigan	1,555,370	1,548,841	1,537,922

State Indicators

State	2013	2014	2015
Minnesota	845,404	850,973	857,235
Mississippi	493,650	492,586	490,917
Missouri	917,900	918,288	917,785
Montana	142,908	144,129	144,532
Nebraska	303,505	307,677	312,635
Nevada	445,707	451,831	459,189
New Hampshire	188,974	186,310	184,670
New Jersey	1,372,203	1,370,295	1,400,579
New Mexico	338,220	339,244	340,365
New York	2,710,703	2,732,770	2,741,185
North Carolina	1,518,465	1,530,857	1,548,895
North Dakota	101,111	103,947	106,586
Ohio	1,729,916	1,724,111	1,724,810
Oklahoma	673,483	681,848	688,511
Oregon	587,564	593,000	601,318
Pennsylvania	1,763,677	1,755,236	1,743,160
Rhode Island	142,481	142,008	141,959
South Carolina	735,998	745,657	756,523
South Dakota	130,471	130,890	133,040
Tennessee	993,496	993,556	995,475
Texas	5,077,659	5,153,702	5,233,765
Utah	613,279	625,461	635,577
Vermont	89,624	88,690	87,311
Virginia	1,265,419	1,273,825	1,280,381
Washington	1,051,694	1,058,936	1,073,638
West Virginia	283,044	280,958	280,310

State Indicators

State	2013	2014	2015
Wisconsin	872,436	874,414	871,432
Wyoming	91,533	92,732	94,067
Puerto Rico	434,609	423,934	410,950
Science and Engineering Indicators 2018			

State Indicators

S-12 Public High School Students Taking Advanced Placement Exams

Description

Participation in the Advanced Placement (AP) program provides a measure of the extent to which a rigorous curriculum is available to and used by high school students. This indicator represents the percentage of students in the graduating class who have taken one or more AP Exams at any point in their high school career. Research shows that performance on AP Exams is one of the best predictors of success in college.

More than 30 different AP Exams are offered each spring by the College Board for a fee. The exams include a multiple-choice section and a free-response section. Generally, students who take AP Exams have completed a rigorous course of study in a specific subject area in high school with the expectation of obtaining college credit or advanced placement. English Language and Composition, U.S. History, and English Literature and Composition are among the most frequently taken AP Exams. The data show the number of public high school students taking at least one AP Exam has risen considerably from 645,000 for the class of 2006 to 1.1 million students in the class of 2016.

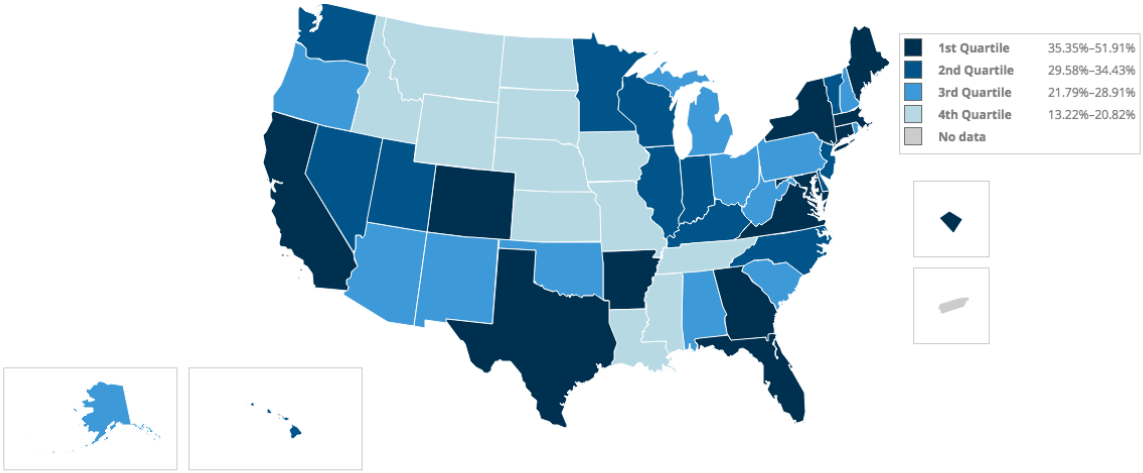
Recognizing that cost may be an impediment to taking the test, the College Board provides a partial fee waiver to qualified low-income students. Since 1997, many states and municipalities have started partially or fully subsidizing the cost of taking the test. Some of this subsidy is from the federal Department of Education. According to the College Board, over 45,000 low-income students in 1999 used a combination of federal funding and College Board fee reductions to eliminate or greatly reduce the AP Exam fee; this figure rose to more than 450,000 in 2016.

Data sources: College Board, Advanced Placement Report to the Nation; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics.

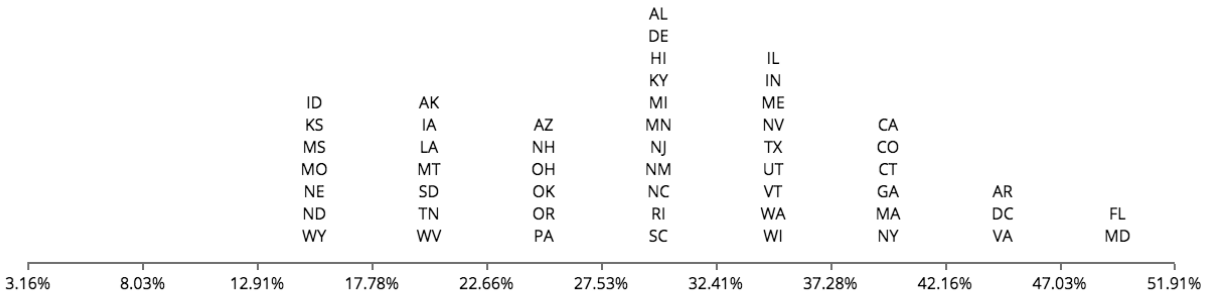
State Indicators

S-12 Public High School Students Taking Advanced Placement Exams

2014



Distribution of states across indicator values, 2014



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

Public High School Students Taking Advanced Placement Exams

(Percent)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	15.65	16.56	17.74	18.64	19.62	21.53	22.65	23.73	24.96	26.00
Alabama	7.27	7.81	8.65	8.50	8.82	9.60	9.49	10.74	12.79	15.36
Alaska	15.54	15.30	15.62	16.32	16.35	19.90	19.98	19.53	20.64	19.44
Arizona	11.43	10.09	10.81	11.44	13.96	12.19	14.97	16.24	17.14	18.22
Arkansas	8.08	8.62	9.75	10.72	12.76	24.01	27.87	32.32	33.71	35.30
California	22.15	22.79	24.13	25.30	26.31	29.16	30.85	30.91	31.86	33.28
Colorado	18.64	20.23	21.06	22.48	23.41	26.05	27.72	30.14	32.07	32.66
Connecticut	17.95	20.21	21.00	21.32	22.89	25.15	24.84	26.16	27.66	31.27
Delaware	13.49	13.26	15.69	17.62	18.92	23.94	25.98	25.58	26.30	26.15
District of Columbia	17.33	16.63	18.90	22.20	20.32	23.09	19.97	34.54	41.53	39.27
Florida	21.82	21.96	23.57	25.55	27.80	30.81	33.27	34.60	36.11	38.06
Georgia	17.85	19.73	20.49	21.34	21.84	24.38	26.52	27.92	29.33	31.18
Hawaii	10.62	11.38	11.85	13.04	14.28	15.42	14.24	15.38	15.92	18.51
Idaho	9.64	10.24	11.31	11.58	12.30	14.12	15.35	15.44	14.68	15.61
Illinois	13.44	14.98	16.14	17.84	17.40	19.11	20.23	21.35	22.59	24.99
Indiana	12.39	13.11	13.35	14.02	15.94	18.50	18.70	18.88	20.02	20.42
Iowa	6.85	7.19	7.89	8.59	9.54	9.78	10.98	11.69	12.86	13.76
Kansas	6.96	7.97	8.32	8.46	8.88	9.37	11.47	11.68	13.24	15.27
Kentucky	10.64	11.42	12.49	13.64	14.70	15.91	17.03	18.00	19.99	20.99
Louisiana	3.16	3.38	3.69	4.10	4.42	4.54	5.43	5.71	7.28	7.92
Maine	14.81	16.20	20.42	21.19	21.79	21.76	24.02	27.98	29.43	31.02
Maryland	20.44	21.56	23.62	25.67	28.93	31.73	32.72	35.15	37.12	39.90
Massachusetts	19.64	20.36	21.86	23.31	23.78	25.63	26.16	26.66	28.11	29.16

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	13.11	14.06	15.48	16.13	16.47	17.53	17.86	18.00	19.53	20.71
Minnesota	13.44	14.76	15.54	15.57	16.08	17.37	18.28	21.05	22.30	23.96
Mississippi	5.62	6.85	6.99	6.50	6.83	8.23	9.97	10.77	12.73	13.39
Missouri	5.43	6.40	7.15	7.48	7.61	8.68	8.93	9.70	10.63	12.15
Montana	10.11	11.44	12.95	12.73	13.16	15.00	14.89	15.24	15.73	16.48
Nebraska	4.89	5.58	6.02	5.90	6.06	7.00	8.28	9.47	11.12	13.18
Nevada	13.48	13.18	13.76	16.35	19.59	22.74	23.74	25.49	26.31	28.04
New Hampshire	13.35	15.19	15.41	16.41	16.61	16.78	18.46	19.72	20.48	20.89
New Jersey	17.95	18.57	19.76	20.38	20.62	22.23	22.93	23.59	25.06	25.75
New Mexico	11.28	12.57	13.79	16.35	17.21	18.35	18.99	21.29	20.64	21.03
New York	27.61	27.90	29.97	30.66	31.94	32.49	31.45	32.20	32.52	32.45
North Carolina	19.58	20.79	22.75	23.92	24.87	26.57	27.56	29.35	28.36	28.35
North Dakota	5.87	6.61	6.93	8.24	8.44	8.86	10.07	10.73	10.53	10.16
Ohio	10.99	11.59	12.71	13.33	13.93	15.37	15.77	16.94	17.65	18.10
Oklahoma	9.46	11.26	13.65	15.96	16.50	17.51	19.09	18.92	19.98	19.54
Oregon	10.49	11.62	11.69	12.31	12.68	15.54	16.05	18.26	19.78	19.65
Pennsylvania	12.39	13.11	13.82	13.84	14.63	15.23	15.74	17.02	18.19	18.72
Rhode Island	10.68	10.50	12.41	11.39	12.01	12.17	12.84	13.85	15.03	17.59
South Carolina	19.03	20.20	20.59	21.16	19.90	21.93	22.23	23.19	23.18	23.46
South Dakota	9.55	10.79	11.40	11.62	13.20	13.99	14.81	15.19	15.60	16.21
Tennessee	11.20	11.83	12.70	12.83	12.63	13.15	13.93	14.59	14.79	15.14
Texas	16.64	18.29	19.23	20.37	21.93	24.47	25.87	27.28	28.91	29.16
Utah	24.69	24.19	25.66	26.89	26.39	28.37	30.46	30.90	31.65	30.17
Vermont	16.12	17.15	18.07	19.67	20.92	20.95	24.62	26.14	27.72	26.88
Virginia	24.61	25.96	26.80	25.73	27.01	29.46	32.95	34.63	35.49	37.08
Washington	11.79	13.67	14.60	16.03	17.51	20.57	22.11	23.47	26.40	27.46

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	8.44	9.15	10.54	11.24	12.52	11.72	13.20	14.39	15.19	17.47
Wisconsin	15.21	16.16	16.85	17.72	19.19	20.37	21.29	22.60	24.00	24.54
Wyoming	6.13	9.54	10.14	10.49	10.94	11.20	13.17	15.16	14.73	14.62
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national total for the United States for Advanced Placement data is the value reported by the College Board and does not include U.S. territories; The national graduate total for the United States includes U.S. territories and estimates for nonreporting states; the value for 2014 is an NCES projection.

Source(s):
College Board, Advanced Placement Report to the Nation and AP Cohort Data (various years), data as of June 2015; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics (various years), data as of February 2017.

Recommended Citation: National Science Board. 2018. "Public High School Students Taking Advanced Placement Exams." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/public-hs-students-taking-ap-exams

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Public High School Students Taking Advanced Placement Exams

(Percent)

State	2010	2011	2012	2013	2014
United States	27.02	28.53	30.04	31.67	33.06
Alabama	17.86	18.65	21.70	25.06	27.86
Alaska	20.41	19.83	20.29	20.95	21.79
Arizona	20.17	20.62	22.79	24.08	23.57
Arkansas	37.60	40.16	42.84	43.79	45.63
California	32.36	33.32	34.59	36.18	37.52
Colorado	33.94	34.52	36.65	38.21	40.51
Connecticut	33.98	33.22	34.47	36.20	38.92
Delaware	26.42	27.24	29.31	31.18	31.86
District of Columbia	28.79	42.31	39.17	44.79	46.16
Florida	42.05	46.80	50.10	50.81	51.91
Georgia	33.47	34.40	37.15	37.34	38.16
Hawaii	19.05	21.82	25.57	28.68	29.58
Idaho	15.83	17.21	17.93	19.64	17.69
Illinois	25.25	27.95	29.13	31.48	32.99
Indiana	28.34	30.31	32.38	33.42	34.09
Iowa	14.90	15.79	16.68	17.53	19.37
Kansas	14.87	15.47	16.20	16.39	16.76
Kentucky	22.92	25.27	28.65	29.77	32.33
Louisiana	8.70	9.84	10.72	14.71	19.63
Maine	28.67	32.23	33.96	35.36	36.86
Maryland	42.25	44.15	45.30	46.48	48.24
Massachusetts	31.57	33.38	35.00	37.06	39.65

State Indicators

State	2010	2011	2012	2013	2014
Michigan	22.28	24.25	25.44	26.72	28.40
Minnesota	25.60	27.26	29.18	30.63	32.15
Mississippi	14.04	13.19	13.82	12.33	13.89
Missouri	13.07	13.59	15.06	15.54	16.54
Montana	17.89	18.73	19.62	19.99	20.82
Nebraska	12.90	13.11	14.10	15.99	16.73
Nevada	28.39	29.35	31.47	31.68	34.28
New Hampshire	21.02	22.12	22.45	23.20	24.34
New Jersey	26.00	27.89	29.24	30.57	32.31
New Mexico	21.40	22.09	23.70	26.48	27.70
New York	33.10	34.49	35.92	37.17	38.32
North Carolina	27.69	28.60	28.34	29.24	30.51
North Dakota	10.08	12.41	12.71	14.59	13.22
Ohio	18.67	19.79	20.44	21.77	23.51
Oklahoma	20.40	20.68	21.82	22.08	22.78
Oregon	21.87	22.19	23.52	24.89	24.78
Pennsylvania	19.49	21.00	21.82	23.14	24.50
Rhode Island	18.12	19.61	22.32	26.04	27.65
South Carolina	23.80	24.93	25.49	26.82	28.91
South Dakota	18.10	18.30	18.83	20.22	20.34
Tennessee	15.44	16.27	17.20	18.44	19.36
Texas	29.25	31.22	32.87	33.75	35.35
Utah	30.54	31.60	33.50	33.96	34.43
Vermont	29.53	29.73	31.36	31.44	33.41
Virginia	37.76	38.86	40.35	41.91	42.56
Washington	27.70	29.05	31.56	32.68	33.62

State Indicators

State	2010	2011	2012	2013	2014
West Virginia	18.15	19.95	21.14	21.22	21.79
Wisconsin	25.76	26.94	28.83	31.15	32.65
Wyoming	14.52	15.93	17.54	16.10	17.28
Puerto Rico	NA	NA	NA	NA	NA

NA not available

Note(s):
The national total for the United States for Advanced Placement data is the value reported by the College Board and does not include U.S. territories; The national graduate total for the United States includes U.S. territories and estimates for nonreporting states; the value for 2014 is an NCES projection.

Source(s):
College Board, Advanced Placement Report to the Nation and AP Cohort Data (various years), data as of June 2015; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics (various years), data as of February 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Public high school graduates who took an Advanced Placement Exam

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	405,475	431,573	471,404	514,163	547,436	609,807	645,277	694,705	756,708	797,972
Alabama	2,750	2,897	3,103	3,123	3,216	3,597	3,597	4,181	5,290	6,462
Alaska	1,028	1,042	1,085	1,191	1,183	1,375	1,471	1,497	1,621	1,557
Arizona	4,378	4,717	5,100	5,719	6,352	7,255	8,099	9,087	10,572	11,367
Arkansas	2,208	2,336	2,630	2,955	3,469	6,393	8,025	8,781	9,682	9,905
California	68,648	71,836	78,638	86,303	90,371	103,580	105,979	110,253	119,338	123,914
Colorado	7,256	7,937	8,585	9,526	10,482	11,602	12,315	13,753	14,777	15,499
Connecticut	5,665	6,142	6,790	7,177	7,914	8,932	8,996	9,819	10,626	10,933
Delaware	824	877	1,017	1,201	1,315	1,660	1,890	1,843	1,943	2,050
District of Columbia	467	467	584	605	616	642	629	1,017	1,392	1,381
Florida	23,288	24,401	28,170	32,566	36,539	41,074	44,805	49,234	53,816	58,403
Georgia	11,169	12,332	13,518	14,274	14,972	17,272	19,492	21,730	24,490	27,442
Hawaii	1,108	1,150	1,239	1,306	1,474	1,667	1,555	1,702	1,849	2,130
Idaho	1,559	1,632	1,795	1,836	1,913	2,226	2,470	2,507	2,432	2,623
Illinois	15,035	16,572	18,833	20,968	21,710	23,625	25,656	27,798	30,529	32,902
Indiana	7,064	7,365	7,575	8,115	8,926	10,255	10,832	11,306	12,393	13,003
Iowa	2,324	2,428	2,667	2,993	3,275	3,281	3,701	3,989	4,446	4,669
Kansas	2,026	2,340	2,458	2,535	2,679	2,843	3,419	3,519	4,070	4,638
Kentucky	3,920	4,220	4,537	5,136	5,555	6,111	6,548	7,036	7,864	8,783
Louisiana	1,214	1,296	1,399	1,542	1,635	1,636	1,807	1,957	2,505	2,821
Maine	1,809	2,050	2,572	2,743	2,893	2,846	3,110	3,680	4,223	4,372
Maryland	9,781	10,613	12,019	13,315	15,294	17,186	18,174	20,232	21,963	23,261
Massachusetts	10,399	11,072	12,084	13,051	13,869	15,293	16,027	17,036	18,326	19,027
Michigan	12,808	13,569	14,706	16,183	16,272	17,810	18,326	20,129	22,495	23,346

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	7,712	8,351	8,926	9,256	9,505	10,145	10,767	12,527	13,473	14,313
Mississippi	1,361	1,626	1,659	1,547	1,622	1,937	2,378	2,605	3,157	3,282
Missouri	2,869	3,463	3,895	4,256	4,412	5,023	5,214	5,846	6,560	7,649
Montana	1,102	1,216	1,367	1,357	1,382	1,550	1,531	1,543	1,635	1,661
Nebraska	986	1,097	1,199	1,189	1,230	1,395	1,637	1,882	2,228	2,571
Nevada	1,961	1,994	2,239	2,678	2,978	3,579	3,907	4,371	4,950	5,582
New Hampshire	1,579	1,868	1,919	2,168	2,211	2,311	2,582	2,850	3,068	3,082
New Jersey	13,357	14,141	15,350	16,586	17,284	19,229	20,645	21,944	23,810	24,485
New Mexico	2,033	2,288	2,496	2,767	3,080	3,184	3,385	3,434	3,769	3,771
New York	39,130	39,590	42,000	44,095	45,523	49,770	50,884	54,201	57,334	58,709
North Carolina	12,170	13,159	15,008	16,671	17,936	19,931	21,142	22,315	23,629	24,581
North Dakota	505	558	562	673	666	669	724	768	737	735
Ohio	12,273	12,894	14,057	15,428	16,581	17,935	18,507	19,929	21,308	22,122
Oklahoma	3,561	4,219	5,032	5,855	6,071	6,344	6,967	7,018	7,519	7,274
Oregon	3,164	3,479	3,643	4,012	4,180	5,066	5,199	6,107	6,912	6,904
Pennsylvania	14,115	15,007	15,890	16,594	18,059	19,004	20,124	21,887	23,700	24,459
Rhode Island	905	903	1,118	1,061	1,112	1,203	1,298	1,438	1,555	1,764
South Carolina	6,016	6,064	6,444	6,873	6,615	7,334	7,774	8,142	8,182	9,175
South Dakota	886	958	1,003	1,046	1,188	1,201	1,272	1,268	1,339	1,317
Tennessee	4,656	4,806	5,193	5,658	5,824	6,306	7,087	7,954	8,505	9,140
Texas	35,427	39,378	43,308	48,500	53,542	58,664	62,211	65,788	72,896	77,063
Utah	8,024	7,507	7,744	7,941	7,984	8,584	8,848	8,737	8,914	9,192
Vermont	1,076	1,176	1,280	1,371	1,485	1,498	1,669	1,913	2,049	1,938
Virginia	16,145	17,150	17,825	18,765	19,457	21,700	22,933	25,627	27,460	29,537
Washington	6,790	7,531	8,513	9,688	10,729	12,569	13,314	14,741	16,268	17,235
West Virginia	1,641	1,688	1,806	1,943	2,170	2,008	2,212	2,505	2,656	3,090

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	8,907	9,592	10,205	11,209	12,048	12,878	13,415	14,454	15,644	16,050
Wyoming	396	579	619	613	638	629	728	825	809	803
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Public high school graduates who took an Advanced Placement Exam

State	2010	2011	2012	2013	2014
United States	852,475	904,794	954,068	1,004,031	1,047,480
Alabama	7,710	8,584	9,852	11,086	12,409
Alaska	1,683	1,599	1,621	1,647	1,682
Arizona	12,335	13,297	14,407	14,980	15,723
Arkansas	10,633	11,326	12,175	12,667	13,510
California	131,042	136,787	144,801	152,745	159,109
Colorado	16,738	17,303	18,358	19,475	20,785
Connecticut	11,720	12,906	13,332	14,019	14,736
Delaware	2,149	2,191	2,417	2,516	2,625
District of Columbia	1,037	1,471	1,512	1,774	1,791
Florida	65,658	72,767	76,128	80,291	82,249
Georgia	30,643	31,764	33,647	34,505	36,019
Hawaii	2,095	2,338	2,905	3,095	3,269
Idaho	2,816	3,016	3,150	3,378	3,382
Illinois	35,112	37,723	40,653	43,835	45,415
Indiana	18,294	20,047	21,260	22,256	23,028
Iowa	5,134	5,345	5,542	5,706	6,313
Kansas	4,705	4,853	5,167	5,231	5,388
Kentucky	9,779	10,872	12,218	12,766	13,709
Louisiana	3,181	3,528	3,931	5,516	7,497
Maine	4,034	4,400	4,576	4,657	4,692
Maryland	24,959	25,934	26,640	27,372	28,040
Massachusetts	20,352	21,605	22,808	24,596	25,851
Michigan	24,658	25,709	26,822	27,846	29,116

State Indicators

State	2010	2011	2012	2013	2014
Minnesota	15,275	16,181	16,780	17,842	18,127
Mississippi	3,576	3,605	3,615	3,268	3,701
Missouri	8,364	8,560	9,235	9,541	10,073
Montana	1,802	1,823	1,913	1,873	1,972
Nebraska	2,498	2,665	2,886	3,269	3,444
Nevada	5,949	6,217	6,890	7,299	7,789
New Hampshire	3,160	3,206	3,238	3,309	3,356
New Jersey	25,016	26,546	27,433	29,497	30,769
New Mexico	3,980	4,274	4,815	5,092	5,149
New York	60,854	63,032	64,946	67,034	68,529
North Carolina	24,558	25,709	26,633	27,587	29,353
North Dakota	721	888	882	1,007	920
Ohio	23,040	24,585	25,170	26,670	28,095
Oklahoma	7,853	7,806	8,140	8,177	8,489
Oregon	7,583	7,706	8,059	8,439	8,538
Pennsylvania	25,561	27,357	28,750	30,033	31,164
Rhode Island	1,795	1,907	2,176	2,494	2,690
South Carolina	9,626	10,149	10,564	11,332	12,062
South Dakota	1,477	1,509	1,543	1,666	1,619
Tennessee	9,634	10,067	10,743	11,308	11,806
Texas	82,174	90,673	96,166	101,707	107,586
Utah	9,614	9,761	10,439	11,269	11,501
Vermont	2,126	2,061	2,151	2,041	2,125
Virginia	30,780	32,212	33,626	34,901	35,371
Washington	18,296	19,305	20,581	21,593	22,273
West Virginia	3,204	3,453	3,722	3,804	3,817

State Indicators

State	2010	2011	2012	2013	2014
Wisconsin	16,665	17,280	18,076	19,136	19,858
Wyoming	827	892	974	884	966
Puerto Rico	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

High school graduates

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	2,591,426	2,605,963	2,657,053	2,758,228	2,790,460	2,831,959	2,848,989	2,927,180	3,032,173	3,069,241
Alabama	37,819	37,082	35,887	36,741	36,464	37,453	37,918	38,912	41,346	42,082
Alaska	6,615	6,812	6,945	7,297	7,236	6,909	7,361	7,666	7,855	8,008
Arizona	38,304	46,733	47,175	49,986	45,508	59,498	54,091	55,954	61,667	62,374
Arkansas	27,335	27,100	26,984	27,555	27,181	26,621	28,790	27,166	28,725	28,057
California	309,866	315,189	325,895	341,097	343,480	355,217	343,515	356,641	374,561	372,310
Colorado	38,924	39,241	40,760	42,379	44,777	44,532	44,424	45,628	46,082	47,459
Connecticut	31,562	30,388	32,327	33,667	34,573	35,515	36,222	37,541	38,419	34,968
Delaware	6,108	6,614	6,482	6,817	6,951	6,934	7,275	7,205	7,388	7,839
District of Columbia	2,695	2,808	3,090	2,725	3,031	2,781	3,150	2,944	3,352	3,517
Florida	106,708	111,112	119,537	127,484	131,418	133,318	134,686	142,284	149,046	153,461
Georgia	62,563	62,499	65,983	66,890	68,550	70,834	73,498	77,829	83,505	88,003
Hawaii	10,437	10,102	10,452	10,013	10,324	10,813	10,922	11,063	11,613	11,508
Idaho	16,170	15,941	15,874	15,858	15,547	15,768	16,096	16,242	16,567	16,807
Illinois	111,835	110,624	116,657	117,507	124,763	123,615	126,817	130,220	135,143	131,670
Indiana	57,012	56,172	56,722	57,897	56,008	55,444	57,920	59,887	61,901	63,663
Iowa	33,926	33,774	33,789	34,860	34,339	33,547	33,693	34,127	34,573	33,926
Kansas	29,102	29,360	29,541	29,963	30,155	30,355	29,818	30,139	30,737	30,368
Kentucky	36,830	36,957	36,337	37,654	37,787	38,399	38,449	39,099	39,339	41,851
Louisiana	38,430	38,314	37,905	37,610	37,019	36,009	33,275	34,274	34,401	35,622
Maine	12,211	12,654	12,593	12,947	13,278	13,077	12,950	13,151	14,350	14,093
Maryland	47,849	49,222	50,881	51,864	52,870	54,170	55,536	57,564	59,171	58,304
Massachusetts	52,950	54,393	55,272	55,987	58,326	59,665	61,272	63,903	65,197	65,258
Michigan	97,679	96,515	95,001	100,301	98,823	101,582	102,582	111,838	115,183	112,742

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	57,372	56,581	57,440	59,432	59,096	58,391	58,898	59,497	60,409	59,729
Mississippi	24,232	23,748	23,740	23,810	23,735	23,523	23,848	24,186	24,795	24,505
Missouri	52,848	54,138	54,487	56,925	57,983	57,841	58,417	60,275	61,717	62,969
Montana	10,903	10,628	10,554	10,657	10,500	10,335	10,283	10,122	10,396	10,077
Nebraska	20,149	19,658	19,910	20,161	20,309	19,940	19,764	19,873	20,035	19,501
Nevada	14,551	15,127	16,270	16,378	15,201	15,740	16,455	17,149	18,815	19,904
New Hampshire	11,829	12,294	12,452	13,210	13,309	13,775	13,988	14,452	14,982	14,757
New Jersey	74,420	76,130	77,664	81,391	83,826	86,502	90,049	93,013	94,994	95,085
New Mexico	18,031	18,199	18,094	16,923	17,892	17,353	17,822	16,131	18,264	17,931
New York	141,731	141,884	140,139	143,818	142,526	153,203	161,817	168,333	176,310	180,917
North Carolina	62,140	63,288	65,955	69,696	72,126	75,010	76,710	76,031	83,307	86,712
North Dakota	8,606	8,445	8,114	8,169	7,888	7,555	7,192	7,159	6,999	7,232
Ohio	111,668	111,281	110,608	115,762	119,029	116,702	117,356	117,658	120,758	122,203
Oklahoma	37,646	37,458	36,852	36,694	36,799	36,227	36,497	37,100	37,630	37,219
Oregon	30,151	29,939	31,153	32,587	32,958	32,602	32,394	33,446	34,949	35,138
Pennsylvania	113,959	114,436	114,943	119,933	123,474	124,758	127,830	128,603	130,298	130,658
Rhode Island	8,477	8,603	9,006	9,318	9,258	9,881	10,108	10,384	10,347	10,028
South Carolina	31,617	30,026	31,302	32,482	33,235	33,439	34,970	35,108	35,303	39,114
South Dakota	9,278	8,881	8,796	8,999	9,001	8,585	8,589	8,346	8,582	8,123
Tennessee	41,568	40,642	40,894	44,113	46,096	47,967	50,880	54,502	57,486	60,368
Texas	212,925	215,316	225,167	238,111	244,165	239,717	240,485	241,193	252,121	264,275
Utah	32,501	31,036	30,183	29,527	30,252	30,253	29,050	28,276	28,167	30,463
Vermont	6,675	6,856	7,083	6,970	7,100	7,152	6,779	7,317	7,392	7,209
Virginia	65,596	66,067	66,519	72,943	72,042	73,667	69,597	73,997	77,369	79,651
Washington	57,597	55,081	58,311	60,435	61,274	61,094	60,213	62,801	61,625	62,764
West Virginia	19,437	18,440	17,128	17,287	17,339	17,137	16,763	17,407	17,489	17,690

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	58,545	59,341	60,575	63,272	62,784	63,229	63,003	63,968	65,183	65,410
Wyoming	6,462	6,071	6,106	5,845	5,833	5,616	5,527	5,441	5,494	5,493
Puerto Rico	30,856	30,154	30,278	31,408	30,083	29,071	31,896	31,718	30,016	29,286

Science and Engineering Indicators 2018

State Indicators

High school graduates

State	2010	2011	2012	2013	2014
United States	3,154,494	3,171,345	3,175,951	3,170,154	3,168,670
Alabama	43,166	46,035	45,394	44,233	44,540
Alaska	8,245	8,064	7,989	7,860	7,720
Arizona	61,145	64,472	63,208	62,208	66,710
Arkansas	28,276	28,205	28,419	28,928	29,610
California	404,987	410,467	418,664	422,125	424,110
Colorado	49,321	50,122	50,087	50,968	51,310
Connecticut	34,495	38,854	38,681	38,722	37,860
Delaware	8,133	8,043	8,247	8,070	8,240
District of Columbia	3,602	3,477	3,860	3,961	3,880
Florida	156,130	155,493	151,964	158,029	158,450
Georgia	91,561	92,338	90,582	92,416	94,390
Hawaii	10,998	10,716	11,360	10,790	11,050
Idaho	17,793	17,525	17,568	17,198	19,120
Illinois	139,035	134,956	139,575	139,228	137,650
Indiana	64,551	66,133	65,667	66,595	67,560
Iowa	34,462	33,853	33,230	32,548	32,600
Kansas	31,642	31,370	31,898	31,922	32,150
Kentucky	42,664	43,031	42,642	42,888	42,400
Louisiana	36,573	35,844	36,675	37,508	38,190
Maine	14,069	13,653	13,473	13,170	12,730
Maryland	59,078	58,745	58,811	58,896	58,130
Massachusetts	64,462	64,724	65,157	66,360	65,200
Michigan	110,682	106,017	105,446	104,210	102,520

State Indicators

State	2010	2011	2012	2013	2014
Minnesota	59,667	59,357	57,501	58,255	56,380
Mississippi	25,478	27,321	26,158	26,502	26,650
Missouri	63,994	62,994	61,313	61,407	60,900
Montana	10,075	9,732	9,750	9,369	9,470
Nebraska	19,370	20,331	20,464	20,442	20,580
Nevada	20,956	21,182	21,891	23,038	22,720
New Hampshire	15,034	14,495	14,426	14,262	13,790
New Jersey	96,225	95,186	93,819	96,490	95,230
New Mexico	18,595	19,352	20,315	19,232	18,590
New York	183,826	182,759	180,806	180,351	178,820
North Carolina	88,704	89,892	93,977	94,339	96,220
North Dakota	7,155	7,156	6,942	6,900	6,960
Ohio	123,437	124,229	123,135	122,491	119,520
Oklahoma	38,503	37,744	37,305	37,033	37,260
Oregon	34,671	34,723	34,261	33,899	34,450
Pennsylvania	131,182	130,284	131,733	129,777	127,210
Rhode Island	9,908	9,724	9,751	9,579	9,730
South Carolina	40,438	40,708	41,442	42,246	41,720
South Dakota	8,162	8,248	8,196	8,239	7,960
Tennessee	62,408	61,862	62,454	61,323	60,980
Texas	280,894	290,470	292,531	301,390	304,380
Utah	31,481	30,888	31,157	33,186	33,400
Vermont	7,199	6,932	6,859	6,491	6,360
Virginia	81,511	82,895	83,336	83,279	83,100
Washington	66,046	66,453	65,205	66,066	66,240
West Virginia	17,651	17,311	17,603	17,924	17,520

State Indicators

State	2010	2011	2012	2013	2014
Wisconsin	64,687	64,135	62,705	61,425	60,820
Wyoming	5,695	5,600	5,553	5,489	5,590
Puerto Rico	25,514	26,231	25,720	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

S-13 Public High School Students Scoring 3 or Higher on at Least One Advanced Placement Exam

Description

This indicator represents the extent to which high school students are successfully demonstrating mastery of college-level material in specific disciplines. More than 30 different Advanced Placement (AP) Exams are offered each spring by the College Board. The exams include a multiple-choice section and a free-response section. To prepare for the AP Exam in a subject area, most students enroll in an AP class that employs a curriculum of high academic intensity. Research shows that performance on AP Exams is one of the best predictors of success in college.

State scores on this indicator reflect students' access to rigorous coursework as well as their success in comprehending and using it. The indicator value is defined as the percentage of U.S. public high school graduates who have scored 3 or higher on at least one AP Exam, which is a subset of Indicator S-12, Public High School Students Taking Advanced Placement Exams. Many colleges and universities grant college credit or advanced placement for AP Exam scores of 3 or higher. Students who score a 3 or higher on at least one AP Exam typically experience greater academic success in college and higher college graduation rates than students who do not achieve these exam scores.

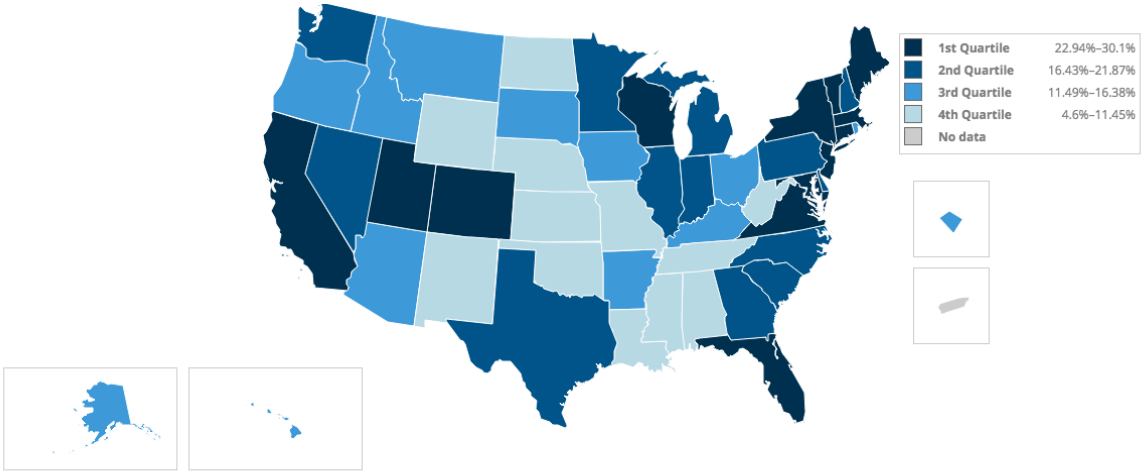
A fee is charged by the College Board for the AP Exam. Recognizing that cost may be an impediment to taking the test, the College Board provides a partial fee waiver to qualified low-income students. Since 1997, many states and municipalities have started partially or fully subsidizing the cost of taking the test. Some of this subsidy is from the federal Department of Education.

Data sources: College Board, Advanced Placement Report to the Nation; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics.

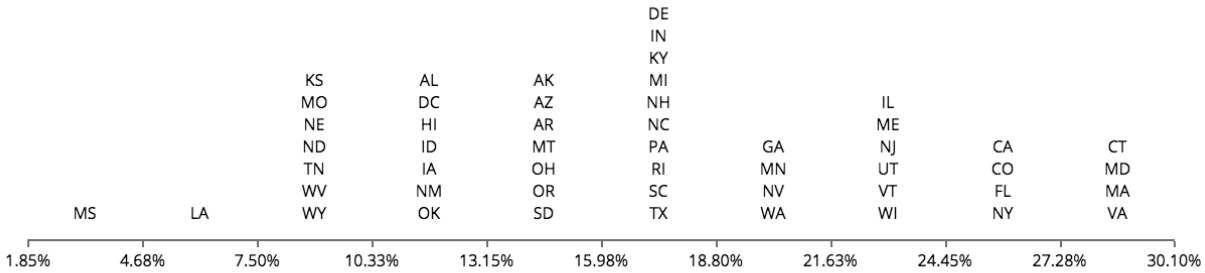
State Indicators

S-13 Public High School Students Scoring 3 or Higher on at Least One Advanced Placement Exam

2014



Distribution of states across indicator values, 2014



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

Public High School Students Scoring 3 or Higher on at Least One Advanced Placement Exam

(Percent)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	10.06	10.65	11.48	12.03	12.53	13.37	14.13	14.49	15.20	15.61
Alabama	3.99	4.19	4.76	4.69	5.03	5.23	5.61	6.16	6.50	7.06
Alaska	10.23	9.75	10.97	11.00	10.57	13.08	12.78	12.48	13.53	12.28
Arizona	7.32	6.64	6.96	7.43	8.79	7.66	9.11	9.70	9.71	10.40
Arkansas	4.27	4.38	4.94	5.48	6.04	7.73	9.21	9.64	10.73	11.41
California	15.00	15.86	16.51	17.27	17.84	19.04	20.67	20.22	20.92	21.68
Colorado	12.23	13.29	13.69	14.68	15.10	16.48	17.45	18.78	19.93	19.97
Connecticut	12.78	14.47	15.49	15.56	16.44	18.42	18.20	18.88	19.93	22.23
Delaware	7.65	8.10	9.52	10.12	10.59	12.49	13.98	13.59	13.54	13.82
District of Columbia	6.64	6.77	7.57	8.92	7.09	7.41	7.17	7.17	8.80	7.39
Florida	13.01	13.41	14.44	15.26	16.27	17.26	18.41	18.53	19.23	20.14
Georgia	10.01	10.81	11.65	12.17	12.34	13.53	14.68	14.89	15.75	16.50
Hawaii	5.80	6.23	6.53	6.74	7.43	7.68	7.10	7.84	7.68	8.38
Idaho	6.51	6.64	7.28	7.49	8.09	9.41	9.37	9.88	9.63	10.31
Illinois	9.87	10.98	11.71	12.97	12.60	13.54	14.29	14.48	15.02	16.27
Indiana	6.23	6.58	7.29	7.52	7.99	8.92	9.24	9.66	10.15	10.30
Iowa	4.90	4.99	5.41	5.85	6.33	6.48	7.33	7.74	8.48	8.62
Kansas	4.39	5.09	5.52	5.76	6.15	6.18	7.37	7.33	8.34	8.91
Kentucky	5.50	5.97	6.59	7.01	7.55	7.67	8.66	9.00	10.08	10.39
Louisiana	1.85	1.89	2.04	2.15	2.32	2.30	2.52	2.68	3.24	3.50
Maine	10.11	10.83	13.51	13.49	13.93	14.02	14.83	17.30	17.80	18.24
Maryland	14.23	14.85	16.54	17.71	19.32	21.10	21.76	22.38	23.27	24.77
Massachusetts	14.50	14.63	15.87	16.82	17.15	18.32	18.83	19.26	20.13	20.89

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	8.31	8.93	10.10	10.48	10.76	11.33	11.78	11.68	12.55	13.19
Minnesota	8.05	8.56	9.80	9.90	10.57	11.32	12.09	13.14	14.15	15.24
Mississippi	2.34	2.65	2.93	2.81	2.84	3.13	3.35	3.49	3.94	4.16
Missouri	3.67	4.08	4.71	4.86	5.01	5.66	5.81	6.12	6.36	6.97
Montana	6.75	7.12	8.80	8.60	8.89	9.90	9.83	10.21	10.47	10.58
Nebraska	3.14	3.48	3.68	3.55	3.88	4.26	5.15	5.56	6.72	7.40
Nevada	8.14	8.40	8.45	10.31	12.32	13.44	13.97	14.17	14.44	15.19
New Hampshire	9.21	10.18	10.77	11.29	11.53	10.91	12.93	14.20	15.08	15.31
New Jersey	12.94	13.33	14.46	14.78	15.09	15.95	16.37	16.96	17.89	18.43
New Mexico	6.24	6.47	6.71	7.52	8.39	8.62	9.11	10.18	9.53	9.26
New York	18.11	18.65	20.12	20.50	21.36	21.32	20.66	21.21	21.43	21.01
North Carolina	11.20	12.56	13.67	14.73	14.95	15.27	16.02	16.91	17.39	17.00
North Dakota	4.37	4.76	4.95	5.79	5.69	6.05	7.19	7.57	7.02	6.19
Ohio	6.90	7.24	8.04	8.43	8.74	9.49	9.84	10.45	10.85	11.18
Oklahoma	5.41	6.18	7.11	8.10	8.15	8.12	9.15	8.81	9.65	9.43
Oregon	7.06	7.55	7.95	8.04	8.25	10.12	9.96	11.40	12.19	12.23
Pennsylvania	8.27	8.82	9.50	9.52	9.93	10.15	10.61	11.23	12.07	12.31
Rhode Island	6.94	6.16	7.40	7.27	7.84	7.93	8.35	8.67	9.58	10.89
South Carolina	10.69	11.84	12.60	12.66	11.73	12.78	12.96	13.57	13.83	13.38
South Dakota	5.82	6.27	6.93	6.97	8.14	8.67	8.87	9.50	9.46	10.51
Tennessee	6.71	6.98	7.71	7.71	7.38	7.77	8.01	7.97	8.29	8.01
Texas	9.87	10.47	11.01	11.89	12.60	13.38	14.43	14.46	15.28	15.12
Utah	17.54	16.85	18.51	19.19	18.62	20.05	21.04	20.85	21.60	20.16
Vermont	11.15	11.92	12.85	13.73	14.17	14.22	16.49	17.92	18.95	18.55
Virginia	15.63	16.50	16.83	16.50	17.14	18.88	21.19	21.63	22.23	23.31
Washington	7.81	9.08	9.64	10.43	11.12	12.83	13.54	14.23	16.35	16.47

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	4.60	4.86	5.17	5.55	6.22	5.67	6.35	6.60	6.86	7.69
Wisconsin	10.54	10.79	11.72	12.22	13.28	13.95	14.84	15.72	16.42	16.87
Wyoming	3.81	5.60	5.68	6.18	6.53	5.64	6.66	8.14	7.43	7.76
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national total for the United States for Advanced Placement data is the value reported by the College Board and does not include U.S. territories; The national graduate total for the United States includes U.S. territories and estimates for nonreporting states; the value for 2014 is an NCES projection.

Source(s):
College Board, Advanced Placement Report to the Nation and AP Cohort Data (various years), data as of June 2015; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics (various years), data as of February 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Public High School Students Scoring 3 or Higher on at Least One Advanced Placement Exam

(Percent)

State	2010	2011	2012	2013	2014
United States	16.12	17.06	18.06	19.18	19.98
Alabama	8.28	8.41	9.38	10.79	10.97
Alaska	13.10	12.48	13.29	13.54	13.63
Arizona	11.39	11.90	13.14	14.10	13.53
Arkansas	12.81	13.57	14.87	15.18	15.84
California	21.20	22.03	22.86	24.05	24.89
Colorado	20.94	21.33	22.84	23.77	25.23
Connecticut	24.41	23.86	25.04	26.94	28.63
Delaware	14.51	14.57	15.24	17.21	17.37
District of Columbia	7.91	9.29	10.08	11.23	11.49
Florida	21.54	23.61	25.87	26.11	27.24
Georgia	17.11	17.84	19.61	20.05	20.36
Hawaii	9.10	9.89	10.56	11.77	12.62
Idaho	10.64	11.86	12.04	13.01	11.80
Illinois	16.56	18.12	18.96	20.84	21.87
Indiana	12.03	13.26	14.67	15.46	16.76
Iowa	9.13	10.02	10.48	10.91	11.84
Kansas	8.86	9.38	9.77	9.95	10.20
Kentucky	11.49	12.53	14.23	15.30	16.38
Louisiana	3.57	4.11	4.17	5.09	6.02
Maine	17.27	20.18	21.77	22.24	22.95
Maryland	25.67	26.53	27.76	29.05	30.10
Massachusetts	21.91	23.37	24.94	26.54	28.01

State Indicators

State	2010	2011	2012	2013	2014
Michigan	14.38	15.68	16.37	17.50	18.67
Minnesota	16.42	17.68	19.25	19.74	21.00
Mississippi	4.38	4.15	4.38	4.27	4.60
Missouri	7.32	7.87	9.06	9.39	10.02
Montana	11.65	12.29	12.36	12.66	13.24
Nebraska	7.73	7.89	8.42	9.32	9.67
Nevada	15.02	16.29	16.48	16.93	18.93
New Hampshire	15.37	16.93	16.84	17.55	18.06
New Jersey	18.93	20.47	21.62	22.75	24.04
New Mexico	9.79	10.10	10.38	11.30	11.45
New York	21.47	22.67	23.58	24.90	25.75
North Carolina	16.90	17.29	17.62	18.09	18.18
North Dakota	6.62	7.76	7.97	8.93	8.78
Ohio	11.60	12.44	13.16	14.16	15.01
Oklahoma	10.12	10.31	10.78	11.05	11.20
Oregon	13.21	13.59	14.67	15.64	15.50
Pennsylvania	12.57	13.53	14.17	15.36	16.43
Rhode Island	11.05	12.01	13.35	14.44	16.20
South Carolina	13.38	14.38	15.04	16.19	17.16
South Dakota	10.81	11.81	12.24	12.33	13.23
Tennessee	8.04	8.53	9.27	9.77	10.17
Texas	15.03	15.85	16.77	17.40	18.32
Utah	20.66	22.19	23.42	23.72	23.94
Vermont	20.28	19.62	20.78	21.83	23.58
Virginia	23.51	24.78	25.83	26.93	27.56
Washington	16.93	17.85	19.23	20.00	20.45

State Indicators

State	2010	2011	2012	2013	2014
West Virginia	7.52	8.57	9.27	9.02	9.57
Wisconsin	17.96	18.80	20.08	21.80	22.94
Wyoming	7.90	8.95	9.42	9.46	10.07
Puerto Rico	NA	NA	NA	NA	NA

NA not available

Note(s):
The national total for the United States for Advanced Placement data is the value reported by the College Board and does not include U.S. territories; The national graduate total for the United States includes U.S. territories and estimates for nonreporting states; the value for 2014 is an NCES projection.

Source(s):
College Board, Advanced Placement Report to the Nation and AP Cohort Data (various years), data as of June 2015; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics (various years), data as of February 2017.

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Science and Engineering Indicators 2018

State Indicators

Public high school graduates who scored 3+ on an Advanced Placement Exam

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	260,658	277,507	305,098	331,734	349,693	378,694	402,610	424,004	460,785	479,223
Alabama	1,510	1,552	1,710	1,723	1,833	1,959	2,129	2,398	2,689	2,972
Alaska	677	664	762	803	765	904	941	957	1,063	983
Arizona	2,805	3,102	3,285	3,715	3,998	4,557	4,929	5,428	5,985	6,484
Arkansas	1,166	1,187	1,333	1,509	1,643	2,058	2,652	2,620	3,081	3,201
California	46,495	49,991	53,816	58,907	61,272	67,644	71,007	72,097	78,342	80,728
Colorado	4,762	5,217	5,582	6,220	6,761	7,339	7,753	8,569	9,185	9,476
Connecticut	4,034	4,397	5,006	5,238	5,684	6,542	6,593	7,089	7,658	7,774
Delaware	467	536	617	690	736	866	1,017	979	1,000	1,083
District of Columbia	179	190	234	243	215	206	226	211	295	260
Florida	13,885	14,896	17,256	19,452	21,383	23,016	24,791	26,360	28,667	30,912
Georgia	6,263	6,754	7,686	8,141	8,461	9,582	10,786	11,592	13,149	14,524
Hawaii	605	629	682	675	767	830	776	867	892	964
Idaho	1,052	1,059	1,156	1,188	1,257	1,484	1,508	1,605	1,596	1,732
Illinois	11,038	12,150	13,666	15,237	15,720	16,739	18,123	18,857	20,293	21,425
Indiana	3,553	3,696	4,134	4,352	4,475	4,946	5,351	5,786	6,283	6,556
Iowa	1,663	1,686	1,828	2,041	2,175	2,175	2,471	2,640	2,932	2,924
Kansas	1,278	1,493	1,631	1,727	1,856	1,876	2,197	2,208	2,562	2,706
Kentucky	2,027	2,208	2,396	2,639	2,853	2,946	3,331	3,518	3,967	4,348
Louisiana	711	726	775	807	857	830	839	920	1,116	1,245
Maine	1,235	1,371	1,701	1,746	1,850	1,833	1,921	2,275	2,554	2,571
Maryland	6,811	7,309	8,414	9,184	10,215	11,428	12,082	12,882	13,768	14,441
Massachusetts	7,680	7,956	8,773	9,419	10,000	10,929	11,537	12,307	13,121	13,631
Michigan	8,113	8,620	9,594	10,507	10,637	11,505	12,083	13,062	14,461	14,872

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	4,620	4,844	5,631	5,882	6,246	6,612	7,120	7,815	8,549	9,102
Mississippi	567	630	696	669	673	736	798	845	976	1,019
Missouri	1,937	2,208	2,566	2,766	2,905	3,272	3,396	3,686	3,927	4,388
Montana	736	757	929	917	933	1,023	1,011	1,033	1,088	1,066
Nebraska	632	684	733	715	788	849	1,018	1,105	1,346	1,443
Nevada	1,184	1,270	1,375	1,688	1,873	2,116	2,298	2,430	2,716	3,023
New Hampshire	1,089	1,251	1,341	1,491	1,534	1,503	1,808	2,052	2,259	2,260
New Jersey	9,631	10,146	11,230	12,027	12,650	13,799	14,740	15,772	16,999	17,522
New Mexico	1,125	1,178	1,215	1,273	1,501	1,496	1,623	1,642	1,740	1,661
New York	25,669	26,463	28,196	29,479	30,439	32,665	33,430	35,707	37,788	38,015
North Carolina	6,960	7,946	9,016	10,266	10,781	11,454	12,291	12,858	14,484	14,745
North Dakota	376	402	402	473	449	457	517	542	491	448
Ohio	7,704	8,059	8,896	9,764	10,406	11,075	11,552	12,301	13,102	13,663
Oklahoma	2,037	2,316	2,620	2,972	3,000	2,941	3,339	3,268	3,632	3,509
Oregon	2,129	2,259	2,477	2,619	2,720	3,300	3,227	3,812	4,260	4,299
Pennsylvania	9,429	10,093	10,918	11,421	12,265	12,657	13,561	14,442	15,722	16,078
Rhode Island	588	530	666	677	726	784	844	900	991	1,092
South Carolina	3,381	3,554	3,944	4,112	3,899	4,274	4,532	4,765	4,881	5,233
South Dakota	540	557	610	627	733	744	762	793	812	854
Tennessee	2,790	2,838	3,153	3,401	3,400	3,727	4,074	4,344	4,768	4,835
Texas	21,015	22,546	24,801	28,311	30,759	32,070	34,709	34,869	38,526	39,958
Utah	5,701	5,231	5,586	5,665	5,632	6,067	6,113	5,896	6,085	6,141
Vermont	744	817	910	957	1,006	1,017	1,118	1,311	1,401	1,337
Virginia	10,254	10,900	11,198	12,039	12,346	13,911	14,751	16,007	17,199	18,566
Washington	4,499	5,002	5,619	6,306	6,816	7,840	8,154	8,938	10,073	10,336
West Virginia	894	896	886	959	1,079	971	1,065	1,148	1,199	1,360

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	6,172	6,401	7,100	7,734	8,340	8,823	9,348	10,053	10,704	11,032
Wyoming	246	340	347	361	381	317	368	443	408	426
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Public high school graduates who scored 3+ on an Advanced Placement Exam

State	2010	2011	2012	2013	2014
United States	508,378	541,000	573,470	607,974	633,166
Alabama	3,573	3,872	4,258	4,773	4,887
Alaska	1,080	1,006	1,062	1,064	1,052
Arizona	6,963	7,675	8,307	8,769	9,026
Arkansas	3,623	3,827	4,227	4,390	4,690
California	85,845	90,409	95,695	101,500	105,572
Colorado	10,330	10,692	11,442	12,116	12,943
Connecticut	8,420	9,270	9,685	10,432	10,841
Delaware	1,180	1,172	1,257	1,389	1,431
District of Columbia	285	323	389	445	446
Florida	33,636	36,707	39,306	41,256	43,154
Georgia	15,668	16,476	17,767	18,534	19,214
Hawaii	1,001	1,060	1,200	1,270	1,394
Idaho	1,893	2,079	2,115	2,238	2,256
Illinois	23,024	24,449	26,461	29,016	30,098
Indiana	7,764	8,772	9,634	10,298	11,320
Iowa	3,145	3,392	3,481	3,550	3,859
Kansas	2,805	2,943	3,117	3,177	3,280
Kentucky	4,903	5,393	6,067	6,561	6,943
Louisiana	1,306	1,474	1,531	1,911	2,298
Maine	2,430	2,755	2,933	2,929	2,921
Maryland	15,167	15,586	16,327	17,111	17,498
Massachusetts	14,122	15,129	16,251	17,615	18,263
Michigan	15,914	16,628	17,262	18,234	19,141

State Indicators

State	2010	2011	2012	2013	2014
Minnesota	9,795	10,493	11,067	11,497	11,839
Mississippi	1,115	1,133	1,145	1,132	1,225
Missouri	4,682	4,959	5,554	5,767	6,102
Montana	1,174	1,196	1,205	1,186	1,254
Nebraska	1,497	1,605	1,724	1,905	1,991
Nevada	3,148	3,451	3,607	3,901	4,302
New Hampshire	2,311	2,454	2,430	2,503	2,490
New Jersey	18,214	19,486	20,283	21,947	22,895
New Mexico	1,820	1,954	2,108	2,173	2,128
New York	39,462	41,427	42,627	44,909	46,053
North Carolina	14,995	15,545	16,558	17,067	17,497
North Dakota	474	555	553	616	611
Ohio	14,323	15,453	16,201	17,343	17,944
Oklahoma	3,895	3,892	4,023	4,092	4,174
Oregon	4,579	4,719	5,025	5,303	5,341
Pennsylvania	16,488	17,631	18,665	19,934	20,898
Rhode Island	1,095	1,168	1,302	1,383	1,576
South Carolina	5,409	5,855	6,231	6,838	7,159
South Dakota	882	974	1,003	1,016	1,053
Tennessee	5,017	5,274	5,790	5,994	6,203
Texas	42,226	46,025	49,062	52,434	55,771
Utah	6,503	6,853	7,298	7,872	7,995
Vermont	1,460	1,360	1,425	1,417	1,500
Virginia	19,162	20,542	21,524	22,426	22,900
Washington	11,182	11,865	12,542	13,214	13,546
West Virginia	1,328	1,483	1,631	1,616	1,677

State Indicators

State	2010	2011	2012	2013	2014
Wisconsin	11,615	12,058	12,590	13,392	13,952
Wyoming	450	501	523	519	563
Puerto Rico	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

High school graduates

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	2,591,426	2,605,963	2,657,053	2,758,228	2,790,460	2,831,959	2,848,989	2,927,180	3,032,173	3,069,241
Alabama	37,819	37,082	35,887	36,741	36,464	37,453	37,918	38,912	41,346	42,082
Alaska	6,615	6,812	6,945	7,297	7,236	6,909	7,361	7,666	7,855	8,008
Arizona	38,304	46,733	47,175	49,986	45,508	59,498	54,091	55,954	61,667	62,374
Arkansas	27,335	27,100	26,984	27,555	27,181	26,621	28,790	27,166	28,725	28,057
California	309,866	315,189	325,895	341,097	343,480	355,217	343,515	356,641	374,561	372,310
Colorado	38,924	39,241	40,760	42,379	44,777	44,532	44,424	45,628	46,082	47,459
Connecticut	31,562	30,388	32,327	33,667	34,573	35,515	36,222	37,541	38,419	34,968
Delaware	6,108	6,614	6,482	6,817	6,951	6,934	7,275	7,205	7,388	7,839
District of Columbia	2,695	2,808	3,090	2,725	3,031	2,781	3,150	2,944	3,352	3,517
Florida	106,708	111,112	119,537	127,484	131,418	133,318	134,686	142,284	149,046	153,461
Georgia	62,563	62,499	65,983	66,890	68,550	70,834	73,498	77,829	83,505	88,003
Hawaii	10,437	10,102	10,452	10,013	10,324	10,813	10,922	11,063	11,613	11,508
Idaho	16,170	15,941	15,874	15,858	15,547	15,768	16,096	16,242	16,567	16,807
Illinois	111,835	110,624	116,657	117,507	124,763	123,615	126,817	130,220	135,143	131,670
Indiana	57,012	56,172	56,722	57,897	56,008	55,444	57,920	59,887	61,901	63,663
Iowa	33,926	33,774	33,789	34,860	34,339	33,547	33,693	34,127	34,573	33,926
Kansas	29,102	29,360	29,541	29,963	30,155	30,355	29,818	30,139	30,737	30,368
Kentucky	36,830	36,957	36,337	37,654	37,787	38,399	38,449	39,099	39,339	41,851
Louisiana	38,430	38,314	37,905	37,610	37,019	36,009	33,275	34,274	34,401	35,622
Maine	12,211	12,654	12,593	12,947	13,278	13,077	12,950	13,151	14,350	14,093
Maryland	47,849	49,222	50,881	51,864	52,870	54,170	55,536	57,564	59,171	58,304
Massachusetts	52,950	54,393	55,272	55,987	58,326	59,665	61,272	63,903	65,197	65,258
Michigan	97,679	96,515	95,001	100,301	98,823	101,582	102,582	111,838	115,183	112,742

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	57,372	56,581	57,440	59,432	59,096	58,391	58,898	59,497	60,409	59,729
Mississippi	24,232	23,748	23,740	23,810	23,735	23,523	23,848	24,186	24,795	24,505
Missouri	52,848	54,138	54,487	56,925	57,983	57,841	58,417	60,275	61,717	62,969
Montana	10,903	10,628	10,554	10,657	10,500	10,335	10,283	10,122	10,396	10,077
Nebraska	20,149	19,658	19,910	20,161	20,309	19,940	19,764	19,873	20,035	19,501
Nevada	14,551	15,127	16,270	16,378	15,201	15,740	16,455	17,149	18,815	19,904
New Hampshire	11,829	12,294	12,452	13,210	13,309	13,775	13,988	14,452	14,982	14,757
New Jersey	74,420	76,130	77,664	81,391	83,826	86,502	90,049	93,013	94,994	95,085
New Mexico	18,031	18,199	18,094	16,923	17,892	17,353	17,822	16,131	18,264	17,931
New York	141,731	141,884	140,139	143,818	142,526	153,203	161,817	168,333	176,310	180,917
North Carolina	62,140	63,288	65,955	69,696	72,126	75,010	76,710	76,031	83,307	86,712
North Dakota	8,606	8,445	8,114	8,169	7,888	7,555	7,192	7,159	6,999	7,232
Ohio	111,668	111,281	110,608	115,762	119,029	116,702	117,356	117,658	120,758	122,203
Oklahoma	37,646	37,458	36,852	36,694	36,799	36,227	36,497	37,100	37,630	37,219
Oregon	30,151	29,939	31,153	32,587	32,958	32,602	32,394	33,446	34,949	35,138
Pennsylvania	113,959	114,436	114,943	119,933	123,474	124,758	127,830	128,603	130,298	130,658
Rhode Island	8,477	8,603	9,006	9,318	9,258	9,881	10,108	10,384	10,347	10,028
South Carolina	31,617	30,026	31,302	32,482	33,235	33,439	34,970	35,108	35,303	39,114
South Dakota	9,278	8,881	8,796	8,999	9,001	8,585	8,589	8,346	8,582	8,123
Tennessee	41,568	40,642	40,894	44,113	46,096	47,967	50,880	54,502	57,486	60,368
Texas	212,925	215,316	225,167	238,111	244,165	239,717	240,485	241,193	252,121	264,275
Utah	32,501	31,036	30,183	29,527	30,252	30,253	29,050	28,276	28,167	30,463
Vermont	6,675	6,856	7,083	6,970	7,100	7,152	6,779	7,317	7,392	7,209
Virginia	65,596	66,067	66,519	72,943	72,042	73,667	69,597	73,997	77,369	79,651
Washington	57,597	55,081	58,311	60,435	61,274	61,094	60,213	62,801	61,625	62,764
West Virginia	19,437	18,440	17,128	17,287	17,339	17,137	16,763	17,407	17,489	17,690

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	58,545	59,341	60,575	63,272	62,784	63,229	63,003	63,968	65,183	65,410
Wyoming	6,462	6,071	6,106	5,845	5,833	5,616	5,527	5,441	5,494	5,493
Puerto Rico	30,856	30,154	30,278	31,408	30,083	29,071	31,896	31,718	30,016	29,286

Science and Engineering Indicators 2018

State Indicators

High school graduates

State	2010	2011	2012	2013	2014
United States	3,154,494	3,171,345	3,175,951	3,170,154	3,168,670
Alabama	43,166	46,035	45,394	44,233	44,540
Alaska	8,245	8,064	7,989	7,860	7,720
Arizona	61,145	64,472	63,208	62,208	66,710
Arkansas	28,276	28,205	28,419	28,928	29,610
California	404,987	410,467	418,664	422,125	424,110
Colorado	49,321	50,122	50,087	50,968	51,310
Connecticut	34,495	38,854	38,681	38,722	37,860
Delaware	8,133	8,043	8,247	8,070	8,240
District of Columbia	3,602	3,477	3,860	3,961	3,880
Florida	156,130	155,493	151,964	158,029	158,450
Georgia	91,561	92,338	90,582	92,416	94,390
Hawaii	10,998	10,716	11,360	10,790	11,050
Idaho	17,793	17,525	17,568	17,198	19,120
Illinois	139,035	134,956	139,575	139,228	137,650
Indiana	64,551	66,133	65,667	66,595	67,560
Iowa	34,462	33,853	33,230	32,548	32,600
Kansas	31,642	31,370	31,898	31,922	32,150
Kentucky	42,664	43,031	42,642	42,888	42,400
Louisiana	36,573	35,844	36,675	37,508	38,190
Maine	14,069	13,653	13,473	13,170	12,730
Maryland	59,078	58,745	58,811	58,896	58,130
Massachusetts	64,462	64,724	65,157	66,360	65,200
Michigan	110,682	106,017	105,446	104,210	102,520

State Indicators

State	2010	2011	2012	2013	2014
Minnesota	59,667	59,357	57,501	58,255	56,380
Mississippi	25,478	27,321	26,158	26,502	26,650
Missouri	63,994	62,994	61,313	61,407	60,900
Montana	10,075	9,732	9,750	9,369	9,470
Nebraska	19,370	20,331	20,464	20,442	20,580
Nevada	20,956	21,182	21,891	23,038	22,720
New Hampshire	15,034	14,495	14,426	14,262	13,790
New Jersey	96,225	95,186	93,819	96,490	95,230
New Mexico	18,595	19,352	20,315	19,232	18,590
New York	183,826	182,759	180,806	180,351	178,820
North Carolina	88,704	89,892	93,977	94,339	96,220
North Dakota	7,155	7,156	6,942	6,900	6,960
Ohio	123,437	124,229	123,135	122,491	119,520
Oklahoma	38,503	37,744	37,305	37,033	37,260
Oregon	34,671	34,723	34,261	33,899	34,450
Pennsylvania	131,182	130,284	131,733	129,777	127,210
Rhode Island	9,908	9,724	9,751	9,579	9,730
South Carolina	40,438	40,708	41,442	42,246	41,720
South Dakota	8,162	8,248	8,196	8,239	7,960
Tennessee	62,408	61,862	62,454	61,323	60,980
Texas	280,894	290,470	292,531	301,390	304,380
Utah	31,481	30,888	31,157	33,186	33,400
Vermont	7,199	6,932	6,859	6,491	6,360
Virginia	81,511	82,895	83,336	83,279	83,100
Washington	66,046	66,453	65,205	66,066	66,240
West Virginia	17,651	17,311	17,603	17,924	17,520

State Indicators

State	2010	2011	2012	2013	2014
Wisconsin	64,687	64,135	62,705	61,425	60,820
Wyoming	5,695	5,600	5,553	5,489	5,590
Puerto Rico	25,514	26,231	25,720	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

S-14 Public High School Students Scoring 3 or Higher on the Advanced Placement Calculus AB Exam

Description

The Advanced Placement (AP) Calculus AB exam assesses how well a student has mastered the concepts and techniques of differential and integral calculus. The indicator value is defined as the percentage of U.S. public high school graduates who have scored 3 or higher on the AP Calculus AB exam during their high school career and is a subset of S-13, Public High School Students Scoring 3 or Higher on at Least One Advanced Placement Exam. Many colleges and universities grant college credit or advanced placement for AP Exam scores of 3 or higher. Successful performance on the Calculus AB exam indicates that the student has a solid mathematical background and is prepared to undertake advanced training in mathematics, science, or engineering at the college or university level.

AP courses in calculus consist of a full high school academic year of work and are comparable to calculus courses taught at colleges and universities. Prior to taking an AP Calculus course, students are expected to have completed 4 years of secondary mathematics intended for college-bound students consisting of courses in algebra, geometry, trigonometry, analytic geometry, and elementary functions. Even though a Calculus AB course may cover elementary functions, most of its topics will address differential and integral calculus. The use of a graphing calculator in AP Calculus is considered an integral part of the course, and graphing calculators are required on portions of the AP Exam.

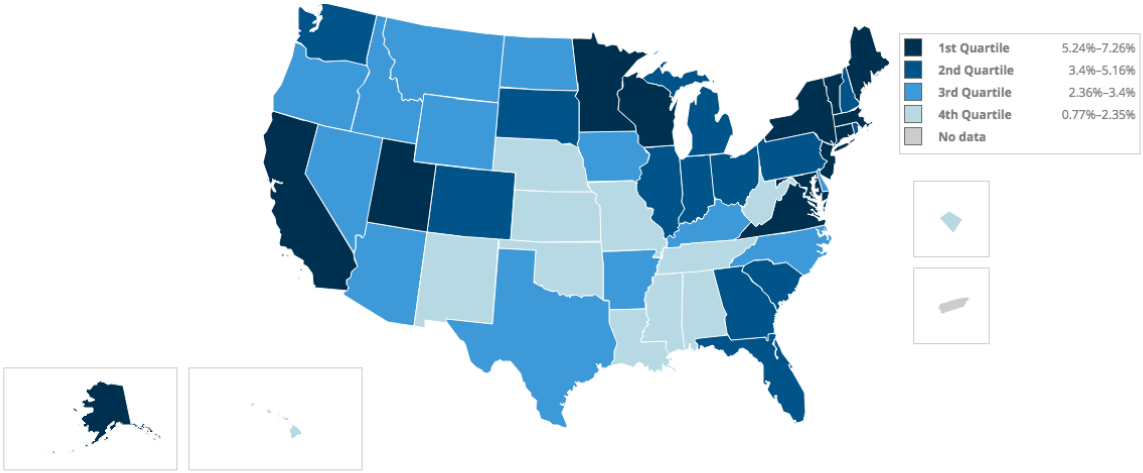
A fee is charged by the College Board for the AP Exam. Recognizing that cost may be an impediment to taking the test, the College Board provides a partial fee waiver to qualified low-income students. Since 1997, many states and municipalities have started partially or fully subsidizing the cost of taking the test. Some of this subsidy is from the federal Department of Education.

Data sources: Derived from data provided by the College Board; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics.

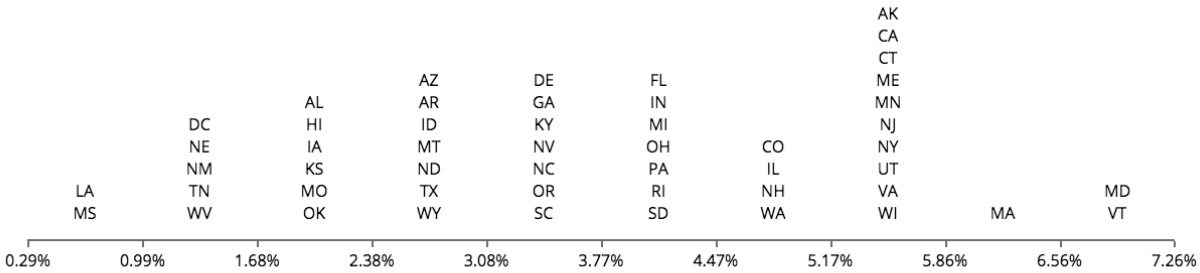
State Indicators

S-14 Public High School Students Scoring 3 or Higher on the Advanced Placement Calculus AB Exam

2014



Distribution of states across indicator values, 2014



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

Public High School Students Scoring 3 or Higher on the Advanced Placement Calculus AB Exam

(Percent)

State	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
United States	2.79	3.06	3.12	2.91	2.92	3.24	3.26	3.46	3.43	3.36
Alabama	1.01	1.10	1.09	0.94	0.96	1.26	1.44	1.52	1.57	1.65
Alaska	3.29	3.79	3.71	3.25	3.94	4.09	4.12	4.70	4.46	4.21
Arizona	1.78	1.83	1.89	1.87	1.64	1.84	2.04	1.79	1.88	2.13
Arkansas	1.05	1.18	1.37	1.43	1.54	2.01	1.89	2.21	1.99	2.21
California	3.64	3.95	3.94	3.83	3.96	4.57	4.48	4.66	4.86	4.58
Colorado	2.83	2.77	2.87	2.83	2.91	3.18	3.73	4.01	4.13	4.31
Connecticut	3.66	4.05	3.83	3.58	3.56	4.05	4.26	4.46	4.92	5.31
Delaware	3.27	4.13	4.46	3.77	3.37	3.73	3.86	3.79	3.81	3.58
District of Columbia	0.50	1.52	1.65	1.09	1.44	1.02	0.99	0.84	1.14	1.03
Florida	3.04	3.19	3.19	3.06	2.96	3.19	3.23	3.35	3.24	3.23
Georgia	2.94	3.23	3.23	2.69	2.83	3.27	3.23	3.64	3.26	2.95
Hawaii	1.85	2.14	2.12	1.97	1.82	2.01	1.80	1.97	1.72	1.95
Idaho	1.73	2.05	2.31	2.27	2.47	2.57	2.46	2.74	2.81	2.90
Illinois	3.23	3.28	3.62	3.28	3.35	3.64	3.61	3.78	3.85	3.79
Indiana	2.75	3.06	2.88	2.54	2.44	2.88	3.04	3.36	3.31	3.17
Iowa	1.54	1.73	1.59	1.67	1.54	1.78	1.73	1.81	1.80	1.76
Kansas	1.39	1.47	1.64	1.71	1.68	1.90	1.88	2.20	2.14	2.19
Kentucky	1.82	2.06	2.13	2.04	2.00	2.41	2.27	2.55	2.54	2.52
Louisiana	0.45	0.39	0.39	0.34	0.29	0.33	0.48	0.57	0.66	0.63
Maine	3.05	3.60	3.01	3.25	3.82	4.13	4.12	4.17	4.50	4.61
Maryland	3.42	3.78	4.30	3.86	4.05	4.38	4.50	4.67	5.07	5.24
Massachusetts	4.03	4.46	4.82	4.37	4.40	4.82	5.03	5.34	5.34	5.33

State Indicators

State	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Michigan	2.73	3.06	3.14	3.01	2.94	3.19	3.13	3.26	3.33	3.47
Minnesota	3.15	3.40	3.37	3.35	3.30	3.44	3.49	3.85	3.96	3.95
Mississippi	0.57	0.69	0.63	0.59	0.61	0.60	0.68	0.83	0.74	0.47
Missouri	0.96	1.19	1.20	1.11	1.17	1.38	1.21	1.34	1.38	1.44
Montana	1.28	2.08	1.87	1.63	1.73	1.92	1.87	1.92	1.92	2.14
Nebraska	0.60	0.79	0.57	0.68	0.72	0.85	0.83	1.00	1.23	1.19
Nevada	2.06	2.16	2.79	2.59	2.76	3.30	3.14	3.02	3.10	2.61
New Hampshire	3.20	3.73	3.56	3.35	2.85	3.70	4.03	4.37	4.57	3.85
New Jersey	3.80	4.06	4.06	3.74	3.71	3.99	3.97	4.21	4.41	4.27
New Mexico	1.63	1.82	1.79	1.85	1.64	1.57	1.85	1.67	1.58	1.59
New York	5.14	5.77	5.76	5.22	4.66	5.02	4.78	5.00	4.62	4.56
North Carolina	3.66	3.92	4.04	3.49	3.44	3.59	3.74	3.80	3.47	3.15
North Dakota	1.52	1.68	1.48	1.70	1.56	1.95	2.43	2.09	1.31	1.77
Ohio	2.39	2.78	2.89	2.61	2.85	3.00	2.91	3.01	3.01	2.93
Oklahoma	1.49	1.38	1.54	1.27	1.00	1.38	1.27	1.49	1.38	1.23
Oregon	1.91	2.02	2.29	1.97	2.08	2.13	2.52	2.66	2.63	2.73
Pennsylvania	2.48	2.67	2.61	2.48	2.59	2.75	2.93	3.14	3.16	3.16
Rhode Island	1.62	2.10	2.03	1.92	1.98	1.74	2.33	2.74	2.86	3.14
South Carolina	4.21	4.67	4.37	3.63	3.89	3.88	3.74	3.84	3.62	3.10
South Dakota	2.61	3.05	3.18	3.20	3.12	3.34	3.61	3.33	3.82	3.34
Tennessee	1.62	1.67	1.87	1.53	1.45	1.53	1.39	1.56	1.27	1.22
Texas	2.00	2.25	2.42	2.29	2.22	2.60	2.60	2.83	2.66	2.48
Utah	4.79	4.83	5.53	4.73	4.46	5.14	4.94	5.53	4.91	5.04
Vermont	3.53	4.04	4.06	4.20	4.12	5.04	5.25	5.61	5.52	5.47
Virginia	3.64	4.08	3.68	3.49	3.47	3.94	3.98	4.26	4.25	4.13
Washington	3.10	3.30	3.58	3.39	3.67	4.05	4.06	4.55	4.61	4.58

State Indicators

State	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
West Virginia	1.32	1.31	1.52	1.41	1.26	1.66	1.35	1.33	1.36	1.26
Wisconsin	3.15	3.65	3.57	3.43	3.60	3.58	3.71	4.15	4.08	3.96
Wyoming	2.21	1.80	2.00	1.92	1.57	1.68	2.59	2.22	2.55	2.30
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national total for the United States for Advanced Placement data is the value reported by the College Board and does not include U.S. territories; The national graduate total for the United States includes U.S. territories and estimates for nonreporting states; the value for 2014 is an NCES projection.

Source(s):
Derived from data provided by the College Board. Copyright © 2001–2016 The College Board. www.collegeboard.org; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics (various years), data as of February 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Public High School Students Scoring 3 or Higher on the Advanced Placement Calculus AB Exam

(Percent)

State	2011	2012	2013	2014
United States	3.45	3.79	4.07	4.22
Alabama	1.77	2.15	2.52	2.35
Alaska	4.68	4.99	4.90	5.48
Arizona	2.04	2.48	2.67	2.46
Arkansas	2.35	2.99	3.03	2.96
California	4.68	5.09	5.50	5.80
Colorado	4.32	4.62	4.47	5.06
Connecticut	5.00	5.45	5.80	5.77
Delaware	3.23	2.49	2.66	3.18
District of Columbia	0.98	0.83	1.36	1.42
Florida	3.29	3.91	4.04	4.32
Georgia	2.90	3.44	3.41	3.40
Hawaii	1.54	2.11	2.43	2.04
Idaho	2.78	2.65	2.99	2.99
Illinois	4.03	4.39	4.71	4.95
Indiana	3.48	3.94	4.07	4.34
Iowa	2.04	2.28	2.12	2.36
Kansas	2.25	2.13	2.26	2.14
Kentucky	2.72	2.99	3.30	3.26
Louisiana	0.79	0.68	0.85	0.88
Maine	4.45	5.06	5.37	5.48
Maryland	5.50	6.24	6.95	7.26
Massachusetts	5.63	6.15	6.45	6.52

State Indicators

State	2011	2012	2013	2014
Michigan	3.55	3.88	4.04	4.31
Minnesota	4.14	4.70	4.94	5.24
Mississippi	0.52	0.57	0.78	0.77
Missouri	1.32	1.59	1.65	1.72
Montana	2.18	2.36	2.51	2.42
Nebraska	1.25	1.51	1.43	1.33
Nevada	3.06	2.87	3.24	3.40
New Hampshire	4.16	4.19	4.55	4.50
New Jersey	4.58	5.24	5.35	5.77
New Mexico	1.35	1.37	1.40	1.43
New York	4.68	5.06	5.38	5.56
North Carolina	3.15	3.17	3.25	3.12
North Dakota	2.24	2.23	2.75	2.61
Ohio	3.04	3.37	3.64	3.81
Oklahoma	1.22	1.49	1.78	1.69
Oregon	2.72	3.15	3.30	3.20
Pennsylvania	3.23	3.46	3.72	4.12
Rhode Island	2.74	3.09	3.59	3.90
South Carolina	2.98	3.06	3.59	3.75
South Dakota	3.86	3.86	4.19	4.33
Tennessee	1.22	1.41	1.46	1.59
Texas	2.54	2.70	2.82	2.94
Utah	5.46	5.38	5.89	5.35
Vermont	4.82	6.05	6.38	7.14
Virginia	4.35	5.05	5.68	5.65
Washington	4.57	4.78	5.01	5.16

State Indicators

State	2011	2012	2013	2014
West Virginia	1.41	1.77	1.82	1.68
Wisconsin	4.17	4.52	4.98	5.29
Wyoming	2.89	2.88	2.24	2.56
Puerto Rico	NA	NA	NA	NA

NA not available

Note(s):
The national total for the United States for Advanced Placement data is the value reported by the College Board and does not include U.S. territories; The national graduate total for the United States includes U.S. territories and estimates for nonreporting states; the value for 2014 is an NCES projection.

Source(s):
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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Public high school graduates who scored 3+ on the Advanced Placement Calculus AB Exam

State	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
United States	72,762	81,293	86,044	81,258	82,769	92,248	95,338	104,772	105,308	105,952
Alabama	375	396	400	344	359	476	562	627	660	712
Alaska	224	263	271	235	272	301	316	369	357	347
Arizona	831	863	944	852	978	995	1,144	1,103	1,175	1,303
Arkansas	284	318	378	390	410	579	514	636	558	625
California	11,486	12,866	13,434	13,155	14,059	15,698	15,989	17,448	18,097	18,548
Colorado	1,112	1,129	1,215	1,267	1,298	1,411	1,700	1,848	1,959	2,124
Connecticut	1,111	1,309	1,288	1,238	1,266	1,468	1,598	1,714	1,722	1,831
Delaware	216	268	304	262	234	271	278	280	299	291
District of Columbia	14	47	45	33	40	32	29	28	40	37
Florida	3,373	3,812	4,072	4,022	3,943	4,290	4,600	4,987	4,979	5,045
Georgia	1,839	2,130	2,158	1,845	2,005	2,404	2,515	3,038	2,871	2,699
Hawaii	187	224	212	203	197	220	199	229	198	215
Idaho	276	326	367	353	390	414	400	454	473	516
Illinois	3,578	3,823	4,249	4,095	4,139	4,619	4,706	5,113	5,063	5,269
Indiana	1,547	1,733	1,667	1,423	1,352	1,667	1,819	2,081	2,105	2,044
Iowa	520	584	553	572	515	601	589	625	612	608
Kansas	409	434	492	515	509	567	566	676	649	693
Kentucky	674	748	803	771	767	926	889	1,003	1,063	1,074
Louisiana	174	146	145	127	104	110	164	195	236	231
Maine	386	453	390	432	499	535	542	598	634	648
Maryland	1,684	1,924	2,229	2,040	2,194	2,432	2,590	2,765	2,955	3,095
Massachusetts	2,194	2,467	2,697	2,547	2,628	2,952	3,212	3,482	3,485	3,435
Michigan	2,638	2,906	3,145	2,975	2,984	3,272	3,501	3,755	3,751	3,838

State Indicators

State	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Minnesota	1,784	1,954	2,001	1,981	1,927	2,025	2,079	2,328	2,368	2,359
Mississippi	135	163	149	141	143	144	164	206	181	121
Missouri	521	648	685	646	679	807	727	830	869	920
Montana	136	219	199	171	179	197	189	200	193	216
Nebraska	117	157	115	138	144	168	164	200	240	231
Nevada	312	352	457	394	434	543	538	569	618	547
New Hampshire	393	465	470	446	392	518	583	654	675	579
New Jersey	2,890	3,150	3,304	3,136	3,211	3,594	3,690	4,001	4,195	4,111
New Mexico	296	330	303	331	285	279	298	305	284	295
New York	7,292	8,081	8,286	7,445	7,143	8,130	8,045	8,815	8,361	8,391
North Carolina	2,314	2,584	2,819	2,515	2,577	2,751	2,844	3,162	3,011	2,792
North Dakota	128	136	121	134	118	140	174	146	95	127
Ohio	2,662	3,074	3,349	3,109	3,325	3,520	3,424	3,639	3,674	3,622
Oklahoma	557	509	564	466	362	502	473	561	513	475
Oregon	572	628	745	648	678	690	843	931	923	947
Pennsylvania	2,833	3,067	3,135	3,067	3,235	3,517	3,774	4,087	4,134	4,140
Rhode Island	139	189	189	178	196	176	242	284	287	311
South Carolina	1,264	1,463	1,418	1,207	1,302	1,358	1,313	1,357	1,415	1,253
South Dakota	232	268	286	288	268	287	301	286	310	273
Tennessee	660	681	827	705	694	779	759	898	768	760
Texas	4,305	5,076	5,767	5,587	5,312	6,248	6,261	7,125	7,030	6,967
Utah	1,488	1,459	1,634	1,432	1,350	1,493	1,396	1,558	1,496	1,588
Vermont	242	286	283	298	295	342	384	415	398	394
Virginia	2,404	2,715	2,684	2,511	2,554	2,739	2,948	3,296	3,388	3,367
Washington	1,709	1,925	2,161	2,077	2,243	2,437	2,551	2,802	2,891	3,026
West Virginia	244	224	262	244	216	278	235	233	240	222

State Indicators

State	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Wisconsin	1,867	2,211	2,256	2,155	2,277	2,253	2,376	2,708	2,670	2,559
Wyoming	134	110	117	112	88	93	141	122	140	131
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Public high school graduates who scored 3+ on the Advanced Placement Calculus AB Exam

State	2011	2012	2013	2014
United States	109,423	120,469	129,066	133,725
Alabama	817	977	1,114	1,048
Alaska	377	399	385	423
Arizona	1,316	1,565	1,660	1,641
Arkansas	663	851	876	876
California	19,200	21,294	23,216	24,578
Colorado	2,166	2,315	2,280	2,595
Connecticut	1,942	2,110	2,244	2,185
Delaware	260	205	215	262
District of Columbia	34	32	54	55
Florida	5,110	5,948	6,391	6,839
Georgia	2,680	3,112	3,154	3,209
Hawaii	165	240	262	225
Idaho	487	465	515	571
Illinois	5,439	6,129	6,551	6,810
Indiana	2,300	2,588	2,709	2,933
Iowa	690	757	690	770
Kansas	707	680	722	688
Kentucky	1,171	1,273	1,415	1,383
Louisiana	283	249	318	335
Maine	608	682	707	698
Maryland	3,231	3,672	4,094	4,218
Massachusetts	3,644	4,010	4,282	4,251
Michigan	3,760	4,096	4,208	4,416

State Indicators

State	2011	2012	2013	2014
Minnesota	2,455	2,705	2,877	2,954
Mississippi	143	149	206	206
Missouri	833	972	1,016	1,047
Montana	212	230	235	229
Nebraska	255	310	292	273
Nevada	648	628	747	772
New Hampshire	603	604	649	620
New Jersey	4,356	4,919	5,164	5,496
New Mexico	261	278	270	266
New York	8,556	9,156	9,706	9,938
North Carolina	2,836	2,983	3,062	2,999
North Dakota	160	155	190	182
Ohio	3,778	4,149	4,464	4,551
Oklahoma	459	555	661	631
Oregon	946	1,079	1,120	1,103
Pennsylvania	4,206	4,559	4,832	5,236
Rhode Island	266	301	344	379
South Carolina	1,212	1,270	1,516	1,566
South Dakota	318	316	345	345
Tennessee	754	880	895	968
Texas	7,372	7,904	8,498	8,953
Utah	1,688	1,677	1,954	1,786
Vermont	334	415	414	454
Virginia	3,603	4,205	4,729	4,694
Washington	3,036	3,114	3,309	3,416
West Virginia	244	311	326	294

State Indicators

State	2011	2012	2013	2014
Wisconsin	2,677	2,836	3,060	3,215
Wyoming	162	160	123	143
Puerto Rico	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

High school graduates

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	2,591,426	2,605,963	2,657,053	2,758,228	2,790,460	2,831,959	2,848,989	2,927,180	3,032,173	3,069,241
Alabama	37,819	37,082	35,887	36,741	36,464	37,453	37,918	38,912	41,346	42,082
Alaska	6,615	6,812	6,945	7,297	7,236	6,909	7,361	7,666	7,855	8,008
Arizona	38,304	46,733	47,175	49,986	45,508	59,498	54,091	55,954	61,667	62,374
Arkansas	27,335	27,100	26,984	27,555	27,181	26,621	28,790	27,166	28,725	28,057
California	309,866	315,189	325,895	341,097	343,480	355,217	343,515	356,641	374,561	372,310
Colorado	38,924	39,241	40,760	42,379	44,777	44,532	44,424	45,628	46,082	47,459
Connecticut	31,562	30,388	32,327	33,667	34,573	35,515	36,222	37,541	38,419	34,968
Delaware	6,108	6,614	6,482	6,817	6,951	6,934	7,275	7,205	7,388	7,839
District of Columbia	2,695	2,808	3,090	2,725	3,031	2,781	3,150	2,944	3,352	3,517
Florida	106,708	111,112	119,537	127,484	131,418	133,318	134,686	142,284	149,046	153,461
Georgia	62,563	62,499	65,983	66,890	68,550	70,834	73,498	77,829	83,505	88,003
Hawaii	10,437	10,102	10,452	10,013	10,324	10,813	10,922	11,063	11,613	11,508
Idaho	16,170	15,941	15,874	15,858	15,547	15,768	16,096	16,242	16,567	16,807
Illinois	111,835	110,624	116,657	117,507	124,763	123,615	126,817	130,220	135,143	131,670
Indiana	57,012	56,172	56,722	57,897	56,008	55,444	57,920	59,887	61,901	63,663
Iowa	33,926	33,774	33,789	34,860	34,339	33,547	33,693	34,127	34,573	33,926
Kansas	29,102	29,360	29,541	29,963	30,155	30,355	29,818	30,139	30,737	30,368
Kentucky	36,830	36,957	36,337	37,654	37,787	38,399	38,449	39,099	39,339	41,851
Louisiana	38,430	38,314	37,905	37,610	37,019	36,009	33,275	34,274	34,401	35,622
Maine	12,211	12,654	12,593	12,947	13,278	13,077	12,950	13,151	14,350	14,093
Maryland	47,849	49,222	50,881	51,864	52,870	54,170	55,536	57,564	59,171	58,304
Massachusetts	52,950	54,393	55,272	55,987	58,326	59,665	61,272	63,903	65,197	65,258
Michigan	97,679	96,515	95,001	100,301	98,823	101,582	102,582	111,838	115,183	112,742

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	57,372	56,581	57,440	59,432	59,096	58,391	58,898	59,497	60,409	59,729
Mississippi	24,232	23,748	23,740	23,810	23,735	23,523	23,848	24,186	24,795	24,505
Missouri	52,848	54,138	54,487	56,925	57,983	57,841	58,417	60,275	61,717	62,969
Montana	10,903	10,628	10,554	10,657	10,500	10,335	10,283	10,122	10,396	10,077
Nebraska	20,149	19,658	19,910	20,161	20,309	19,940	19,764	19,873	20,035	19,501
Nevada	14,551	15,127	16,270	16,378	15,201	15,740	16,455	17,149	18,815	19,904
New Hampshire	11,829	12,294	12,452	13,210	13,309	13,775	13,988	14,452	14,982	14,757
New Jersey	74,420	76,130	77,664	81,391	83,826	86,502	90,049	93,013	94,994	95,085
New Mexico	18,031	18,199	18,094	16,923	17,892	17,353	17,822	16,131	18,264	17,931
New York	141,731	141,884	140,139	143,818	142,526	153,203	161,817	168,333	176,310	180,917
North Carolina	62,140	63,288	65,955	69,696	72,126	75,010	76,710	76,031	83,307	86,712
North Dakota	8,606	8,445	8,114	8,169	7,888	7,555	7,192	7,159	6,999	7,232
Ohio	111,668	111,281	110,608	115,762	119,029	116,702	117,356	117,658	120,758	122,203
Oklahoma	37,646	37,458	36,852	36,694	36,799	36,227	36,497	37,100	37,630	37,219
Oregon	30,151	29,939	31,153	32,587	32,958	32,602	32,394	33,446	34,949	35,138
Pennsylvania	113,959	114,436	114,943	119,933	123,474	124,758	127,830	128,603	130,298	130,658
Rhode Island	8,477	8,603	9,006	9,318	9,258	9,881	10,108	10,384	10,347	10,028
South Carolina	31,617	30,026	31,302	32,482	33,235	33,439	34,970	35,108	35,303	39,114
South Dakota	9,278	8,881	8,796	8,999	9,001	8,585	8,589	8,346	8,582	8,123
Tennessee	41,568	40,642	40,894	44,113	46,096	47,967	50,880	54,502	57,486	60,368
Texas	212,925	215,316	225,167	238,111	244,165	239,717	240,485	241,193	252,121	264,275
Utah	32,501	31,036	30,183	29,527	30,252	30,253	29,050	28,276	28,167	30,463
Vermont	6,675	6,856	7,083	6,970	7,100	7,152	6,779	7,317	7,392	7,209
Virginia	65,596	66,067	66,519	72,943	72,042	73,667	69,597	73,997	77,369	79,651
Washington	57,597	55,081	58,311	60,435	61,274	61,094	60,213	62,801	61,625	62,764
West Virginia	19,437	18,440	17,128	17,287	17,339	17,137	16,763	17,407	17,489	17,690

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	58,545	59,341	60,575	63,272	62,784	63,229	63,003	63,968	65,183	65,410
Wyoming	6,462	6,071	6,106	5,845	5,833	5,616	5,527	5,441	5,494	5,493
Puerto Rico	30,856	30,154	30,278	31,408	30,083	29,071	31,896	31,718	30,016	29,286

Science and Engineering Indicators 2018

State Indicators

High school graduates

State	2010	2011	2012	2013	2014
United States	3,154,494	3,171,345	3,175,951	3,170,154	3,168,670
Alabama	43,166	46,035	45,394	44,233	44,540
Alaska	8,245	8,064	7,989	7,860	7,720
Arizona	61,145	64,472	63,208	62,208	66,710
Arkansas	28,276	28,205	28,419	28,928	29,610
California	404,987	410,467	418,664	422,125	424,110
Colorado	49,321	50,122	50,087	50,968	51,310
Connecticut	34,495	38,854	38,681	38,722	37,860
Delaware	8,133	8,043	8,247	8,070	8,240
District of Columbia	3,602	3,477	3,860	3,961	3,880
Florida	156,130	155,493	151,964	158,029	158,450
Georgia	91,561	92,338	90,582	92,416	94,390
Hawaii	10,998	10,716	11,360	10,790	11,050
Idaho	17,793	17,525	17,568	17,198	19,120
Illinois	139,035	134,956	139,575	139,228	137,650
Indiana	64,551	66,133	65,667	66,595	67,560
Iowa	34,462	33,853	33,230	32,548	32,600
Kansas	31,642	31,370	31,898	31,922	32,150
Kentucky	42,664	43,031	42,642	42,888	42,400
Louisiana	36,573	35,844	36,675	37,508	38,190
Maine	14,069	13,653	13,473	13,170	12,730
Maryland	59,078	58,745	58,811	58,896	58,130
Massachusetts	64,462	64,724	65,157	66,360	65,200
Michigan	110,682	106,017	105,446	104,210	102,520

State Indicators

State	2010	2011	2012	2013	2014
Minnesota	59,667	59,357	57,501	58,255	56,380
Mississippi	25,478	27,321	26,158	26,502	26,650
Missouri	63,994	62,994	61,313	61,407	60,900
Montana	10,075	9,732	9,750	9,369	9,470
Nebraska	19,370	20,331	20,464	20,442	20,580
Nevada	20,956	21,182	21,891	23,038	22,720
New Hampshire	15,034	14,495	14,426	14,262	13,790
New Jersey	96,225	95,186	93,819	96,490	95,230
New Mexico	18,595	19,352	20,315	19,232	18,590
New York	183,826	182,759	180,806	180,351	178,820
North Carolina	88,704	89,892	93,977	94,339	96,220
North Dakota	7,155	7,156	6,942	6,900	6,960
Ohio	123,437	124,229	123,135	122,491	119,520
Oklahoma	38,503	37,744	37,305	37,033	37,260
Oregon	34,671	34,723	34,261	33,899	34,450
Pennsylvania	131,182	130,284	131,733	129,777	127,210
Rhode Island	9,908	9,724	9,751	9,579	9,730
South Carolina	40,438	40,708	41,442	42,246	41,720
South Dakota	8,162	8,248	8,196	8,239	7,960
Tennessee	62,408	61,862	62,454	61,323	60,980
Texas	280,894	290,470	292,531	301,390	304,380
Utah	31,481	30,888	31,157	33,186	33,400
Vermont	7,199	6,932	6,859	6,491	6,360
Virginia	81,511	82,895	83,336	83,279	83,100
Washington	66,046	66,453	65,205	66,066	66,240
West Virginia	17,651	17,311	17,603	17,924	17,520

State Indicators

State	2010	2011	2012	2013	2014
Wisconsin	64,687	64,135	62,705	61,425	60,820
Wyoming	5,695	5,600	5,553	5,489	5,590
Puerto Rico	25,514	26,231	25,720	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

S-15 Individuals with High School or Higher Level Degree among 25–44-Year-Old Population

Description

This indicator represents the percentage of the early- to mid-career population that has earned at least a high school credential. The indicator displays results based on where high school graduates live rather than where they were educated. Both foreign-educated and U.S.-educated individuals living in a state are included in the state total. High values indicate a resident population and potential workforce with widespread basic education credentials.

Estimates of educational attainment have been developed by the U.S. Census Bureau. Data are derived from the American Community Survey (ACS), the largest household survey in the United States, with a sample size of about 3.5 million addresses. The ACS collects information on an annual basis.

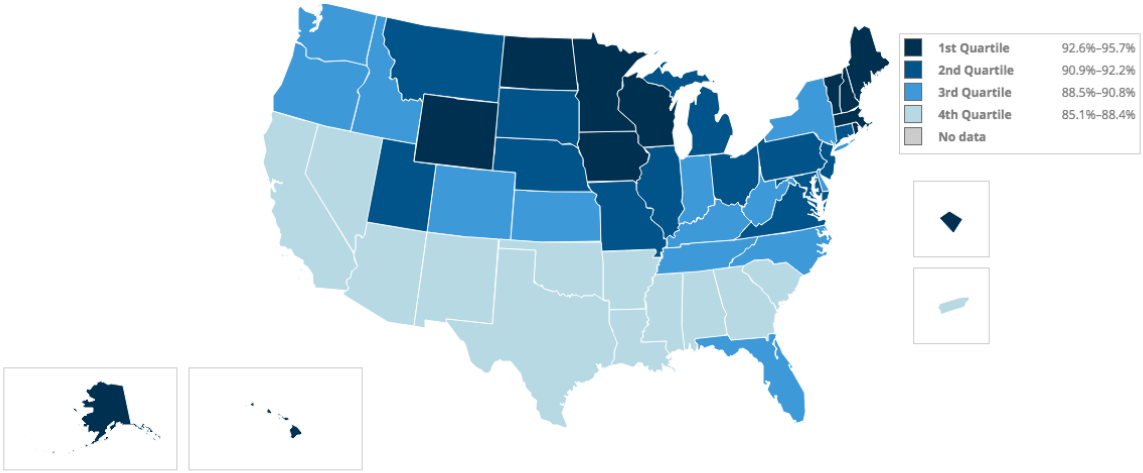
Estimates of the population aged 25–44 are provided by the Census Bureau based on the 2000 and 2010 Decennial Censuses and are reported by the state of residence. Each year, the Census Bureau utilizes current data on births, deaths, and migration to calculate population change since the most recent decennial census and produces time series of estimates of population. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

Data sources: U.S. Census Bureau, special tabulations of the American Community Survey; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program.

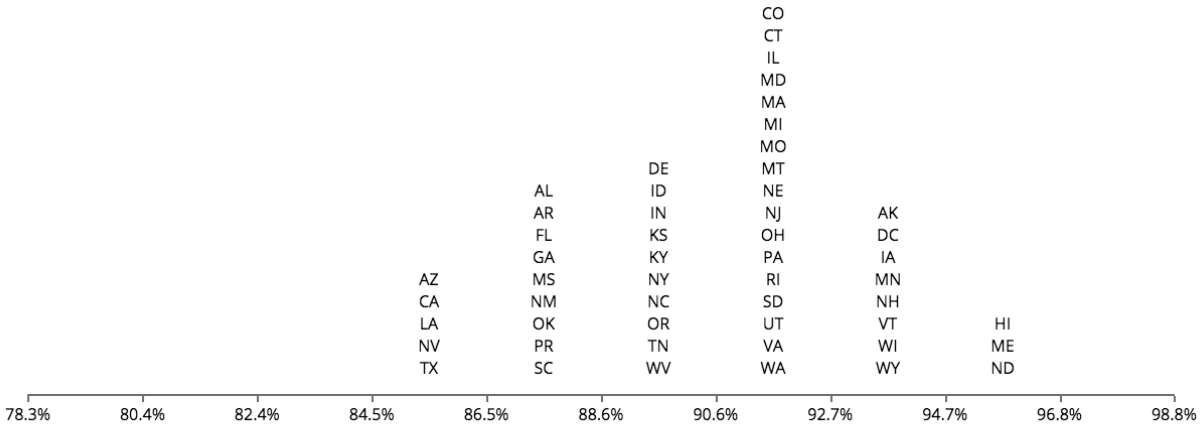
State Indicators

S-15 Individuals with High School or Higher Level Degree among 25–44-Year-Old Population

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

Individuals with High School or Higher Level Degree among 25–44-Year-Old Population

(Percent)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	86.0	87.7	87.7	87.5	88.0	87.2	87.5	87.9	88.0	88.6
Alabama	84.3	84.4	84.1	85.0	85.7	83.9	84.8	87.0	86.0	86.8
Alaska	86.2	93.9	93.8	95.3	93.7	91.8	93.3	93.6	92.7	93.7
Arizona	84.4	87.8	86.9	87.1	90.7	85.2	85.1	85.9	85.1	85.8
Arkansas	85.5	86.3	85.3	85.3	87.6	86.0	87.4	87.7	87.9	88.3
California	78.3	81.7	81.6	81.1	81.9	81.3	82.1	82.7	83.0	84.4
Colorado	90.4	90.8	92.3	91.5	90.4	89.1	90.1	89.8	90.3	90.7
Connecticut	88.9	92.9	91.1	91.1	90.0	90.8	90.9	92.1	91.6	91.4
Delaware	88.8	89.7	89.5	88.6	91.4	87.5	88.0	88.5	88.1	89.0
District of Columbia	87.8	89.5	91.5	90.4	90.8	91.9	90.8	90.8	94.2	93.4
Florida	84.1	87.4	86.9	87.0	88.2	86.6	87.1	87.7	87.4	88.6
Georgia	88.2	87.6	87.5	87.9	87.9	85.9	86.2	86.8	86.7	87.0
Hawaii	86.9	93.8	94.2	93.1	95.8	92.9	95.1	94.6	96.5	96.7
Idaho	87.5	89.8	92.6	89.3	89.1	89.9	89.2	91.1	88.9	89.9
Illinois	89.0	89.7	89.8	89.0	89.5	88.8	89.4	89.7	89.3	90.1
Indiana	87.7	89.1	89.9	89.2	89.6	88.5	88.4	88.6	88.7	89.7
Iowa	94.8	92.5	93.2	92.8	92.0	92.3	92.5	93.1	93.0	93.4
Kansas	91.8	91.2	91.9	90.6	90.1	89.2	89.9	90.0	90.7	91.0
Kentucky	85.3	87.9	88.2	88.5	88.4	87.5	87.6	88.6	88.9	88.6
Louisiana	82.9	83.0	81.7	84.3	86.5	84.6	85.1	85.1	85.6	86.4
Maine	92.5	95.3	94.2	95.3	94.0	94.0	93.7	93.8	94.1	94.5
Maryland	86.9	90.3	89.2	88.9	89.7	89.5	90.0	90.6	90.3	90.4
Massachusetts	92.4	92.5	93.3	93.1	93.9	92.1	91.4	92.3	92.6	92.3

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Michigan	90.7	92.8	93.1	93.3	92.6	91.0	91.0	90.7	90.8	91.1
Minnesota	94.5	94.3	94.3	93.8	92.9	93.2	92.8	93.6	93.0	94.1
Mississippi	83.8	83.6	82.0	84.1	84.4	84.2	84.0	85.2	85.7	87.5
Missouri	88.8	90.0	90.6	90.1	90.9	89.3	89.9	90.0	90.4	90.7
Montana	94.9	93.6	93.4	93.6	91.5	92.7	94.1	93.1	93.5	92.6
Nebraska	91.5	91.9	90.6	90.8	89.1	89.9	90.2	90.1	88.9	90.4
Nevada	80.9	83.6	81.6	80.4	81.5	84.2	82.7	84.5	84.3	84.8
New Hampshire	93.2	96.6	95.2	95.6	94.6	93.9	93.5	93.9	94.2	94.5
New Jersey	87.1	90.8	90.5	90.1	90.3	90.7	90.7	90.4	90.8	91.3
New Mexico	81.5	85.1	85.1	84.4	84.1	83.6	83.9	86.0	85.3	85.1
New York	87.2	87.7	87.7	87.5	88.8	87.5	87.6	87.6	88.1	88.9
North Carolina	86.1	85.6	86.0	85.9	86.2	87.1	86.1	86.7	87.1	87.7
North Dakota	98.8	94.5	93.9	94.7	92.8	95.0	93.9	95.9	94.2	94.5
Ohio	89.7	91.0	91.8	92.4	93.1	91.1	91.0	91.2	90.7	91.4
Oklahoma	86.5	87.4	87.5	87.3	86.4	87.8	87.7	87.7	87.5	88.0
Oregon	88.5	89.8	90.4	90.3	88.9	87.8	88.5	89.3	89.6	89.7
Pennsylvania	89.3	90.6	90.6	90.4	92.9	91.7	91.5	91.6	91.3	91.4
Rhode Island	90.4	88.9	89.5	89.4	92.8	87.6	89.3	88.9	88.8	89.7
South Carolina	85.5	85.3	86.5	86.0	86.7	87.0	87.3	88.0	87.4	87.7
South Dakota	92.8	93.2	90.9	94.1	91.7	92.8	92.1	92.8	93.7	93.1
Tennessee	86.9	87.1	87.3	88.6	89.2	88.0	88.5	89.4	89.0	89.6
Texas	79.1	81.7	81.9	81.6	81.5	81.9	82.5	83.1	83.6	84.2
Utah	95.1	91.7	92.5	93.1	91.5	90.8	89.4	90.9	91.7	91.4
Vermont	94.5	96.2	96.0	95.2	93.1	94.2	94.5	92.7	92.3	95.4
Virginia	86.6	90.3	90.2	88.8	89.4	89.5	90.8	91.6	91.5	91.9
Washington	89.8	91.2	90.8	90.2	90.1	89.5	90.3	90.2	90.1	90.7

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West Virginia	87.5	88.6	88.4	88.6	88.8	89.2	88.8	88.8	89.2	90.6
Wisconsin	91.5	93.2	93.1	93.3	91.3	91.5	92.0	92.5	92.5	93.0
Wyoming	90.9	92.1	90.7	93.1	90.4	93.3	92.2	92.5	95.3	94.8
Puerto Rico	84.5	86.2	86.5	87.5	89.1	83.0	84.0	85.7	85.3	85.4

Note(s):
The national total for degree holders for the United States includes Puerto Rico; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Census Bureau, special tabulations of the American Community Survey (various years), data as of November 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Individuals with High School or Higher Level Degree among 25–44-Year-Old Population

(Percent)

State	2015	2016
United States	89.0	89.0
Alabama	86.9	86.7
Alaska	93.9	94.6
Arizona	85.9	86.1
Arkansas	88.2	86.9
California	84.8	85.1
Colorado	92.0	90.8
Connecticut	92.6	92.0
Delaware	88.0	88.8
District of Columbia	94.6	93.4
Florida	89.3	88.5
Georgia	87.3	87.5
Hawaii	96.7	95.4
Idaho	90.5	90.3
Illinois	90.4	90.9
Indiana	88.9	88.8
Iowa	93.1	92.8
Kansas	90.2	90.3
Kentucky	89.4	89.5
Louisiana	86.8	86.1
Maine	93.3	95.3
Maryland	91.2	91.2
Massachusetts	93.2	92.7

State Indicators

State	2015	2016
Michigan	91.3	91.4
Minnesota	93.5	93.3
Mississippi	86.8	87.1
Missouri	90.6	91.1
Montana	94.1	91.4
Nebraska	91.8	91.4
Nevada	85.6	85.6
New Hampshire	94.4	94.1
New Jersey	91.7	91.8
New Mexico	84.2	87.0
New York	89.2	88.9
North Carolina	87.9	88.7
North Dakota	96.8	95.7
Ohio	91.9	91.4
Oklahoma	88.2	87.5
Oregon	90.1	90.5
Pennsylvania	91.6	92.2
Rhode Island	91.2	92.6
South Carolina	88.0	87.9
South Dakota	92.6	91.4
Tennessee	89.1	90.6
Texas	84.8	85.1
Utah	92.3	91.7
Vermont	91.8	92.9
Virginia	92.3	91.5
Washington	91.1	90.7

State Indicators

State	2015	2016
West Virginia	91.7	89.4
Wisconsin	93.1	93.0
Wyoming	93.7	94.2
Puerto Rico	86.9	88.4

Note(s):
The national total for degree holders for the United States includes Puerto Rico; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Census Bureau, special tabulations of the American Community Survey (various years), data as of November 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

High school graduates 25–44 years old

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	72,084,295	73,373,035	73,232,215	73,006,065	73,216,585	72,499,535	72,966,880	73,683,935	74,125,010	75,159,240
Alabama	1,035,195	1,041,195	1,036,145	1,046,900	1,055,385	1,031,025	1,038,840	1,066,565	1,056,400	1,068,245
Alaska	162,670	177,010	176,845	180,800	179,000	181,365	186,625	190,605	191,545	194,810
Arizona	1,367,585	1,461,335	1,462,670	1,472,640	1,528,930	1,431,665	1,436,550	1,458,930	1,456,295	1,485,620
Arkansas	633,555	644,780	637,070	635,715	651,055	638,890	651,635	654,620	657,455	662,120
California	8,316,850	8,641,475	8,581,685	8,524,730	8,590,130	8,550,640	8,684,130	8,809,560	8,917,545	9,163,070
Colorado	1,240,695	1,253,855	1,283,905	1,284,990	1,279,280	1,274,625	1,304,870	1,319,465	1,346,505	1,374,110
Connecticut	852,930	876,845	847,350	841,415	820,615	820,030	815,390	821,190	813,210	803,455
Delaware	206,585	208,665	207,160	204,105	209,050	199,100	200,260	202,055	203,415	208,515
District of Columbia	163,025	168,220	173,875	174,425	180,720	191,140	198,755	207,555	223,380	226,600
Florida	4,000,760	4,201,615	4,166,135	4,143,130	4,170,015	4,092,195	4,153,735	4,224,490	4,260,865	4,388,475
Georgia	2,369,000	2,389,315	2,404,615	2,424,140	2,418,545	2,349,170	2,356,860	2,375,835	2,373,470	2,393,580
Hawaii	308,635	336,005	334,900	333,870	344,835	336,660	348,050	351,285	363,505	367,255
Idaho	327,870	344,340	362,470	354,495	355,985	360,610	359,685	369,255	363,720	372,870
Illinois	3,200,555	3,204,665	3,188,985	3,147,000	3,146,715	3,108,830	3,119,360	3,120,825	3,100,475	3,116,375
Indiana	1,500,650	1,519,940	1,528,485	1,508,235	1,502,415	1,475,485	1,471,265	1,471,260	1,477,775	1,497,770
Iowa	713,525	691,725	697,235	692,820	685,785	690,180	693,855	697,570	699,285	704,575
Kansas	656,920	650,565	656,850	649,800	649,025	647,570	653,235	656,510	661,970	664,720
Kentucky	993,095	1,022,180	1,023,570	1,020,570	1,014,340	1,000,245	997,295	1,004,260	1,003,920	999,145
Louisiana	1,026,230	956,120	949,440	986,305	1,022,070	1,013,445	1,027,440	1,034,900	1,048,065	1,067,265
Maine	317,655	321,680	312,985	311,450	301,405	295,890	292,585	290,685	290,685	291,520
Maryland	1,399,880	1,442,855	1,409,455	1,395,410	1,398,325	1,395,475	1,410,515	1,429,080	1,431,380	1,438,925
Massachusetts	1,690,235	1,660,825	1,651,535	1,633,415	1,635,795	1,596,290	1,588,630	1,613,420	1,628,775	1,630,350
Michigan	2,455,340	2,467,685	2,421,940	2,367,265	2,293,445	2,213,740	2,192,905	2,170,755	2,169,875	2,177,980

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	1,345,740	1,332,480	1,330,265	1,318,125	1,299,950	1,301,585	1,298,650	1,314,025	1,311,910	1,331,415
Mississippi	648,460	641,560	629,510	645,110	644,970	642,315	639,785	648,515	652,220	666,040
Missouri	1,378,000	1,392,465	1,397,470	1,381,330	1,388,875	1,362,605	1,371,220	1,372,030	1,381,535	1,389,675
Montana	216,510	213,880	216,165	218,355	214,585	218,790	223,375	222,770	226,460	226,975
Nebraska	421,010	421,145	415,180	416,915	412,125	419,815	423,825	426,115	424,015	432,540
Nevada	585,940	625,410	624,385	623,090	631,070	648,010	634,590	651,880	655,060	668,260
New Hampshire	330,925	337,035	326,095	320,995	310,705	302,785	298,045	296,660	295,600	295,825
New Jersey	2,165,295	2,220,610	2,184,315	2,153,545	2,135,875	2,127,020	2,118,730	2,107,215	2,109,275	2,117,650
New Mexico	411,610	431,945	433,950	429,345	430,510	432,435	436,330	448,395	444,965	443,710
New York	4,786,795	4,751,230	4,698,850	4,657,235	4,697,650	4,610,455	4,630,435	4,651,615	4,695,600	4,746,150
North Carolina	2,148,500	2,155,550	2,187,835	2,208,320	2,217,820	2,244,070	2,219,455	2,236,690	2,255,685	2,279,455
North Dakota	155,295	147,530	148,755	150,885	150,985	158,350	159,980	168,930	173,620	180,365
Ohio	2,759,770	2,765,830	2,754,010	2,733,545	2,716,280	2,628,140	2,612,565	2,610,985	2,603,545	2,630,225
Oklahoma	807,210	820,765	827,695	828,415	828,945	851,110	856,715	864,220	872,275	885,300
Oregon	872,275	893,510	907,880	914,290	907,375	900,195	913,085	927,925	937,605	950,120
Pennsylvania	2,908,595	2,921,525	2,895,585	2,869,670	2,922,660	2,866,565	2,860,910	2,870,060	2,869,080	2,883,655
Rhode Island	264,155	252,935	248,540	243,620	247,680	230,895	233,865	232,510	233,105	236,920
South Carolina	999,625	1,006,115	1,026,575	1,028,610	1,036,560	1,038,170	1,040,905	1,053,915	1,055,170	1,071,355
South Dakota	180,015	180,185	177,250	183,535	180,580	184,770	185,250	189,290	193,665	193,960
Tennessee	1,459,560	1,473,535	1,480,790	1,499,475	1,502,095	1,477,310	1,484,695	1,504,215	1,501,955	1,522,570
Texas	5,248,280	5,507,180	5,598,950	5,646,385	5,709,405	5,814,365	5,937,000	6,075,635	6,198,250	6,361,085
Utah	646,630	643,345	672,440	695,055	700,665	709,520	708,545	728,555	745,545	753,585
Vermont	150,075	150,035	147,145	144,055	138,870	139,055	138,200	134,520	133,715	136,965
Virginia	1,896,615	1,977,745	1,971,610	1,943,345	1,959,385	1,971,750	2,014,375	2,047,380	2,056,195	2,070,070
Washington	1,592,550	1,634,205	1,637,950	1,641,390	1,654,320	1,652,185	1,683,780	1,699,130	1,716,625	1,754,955
West Virginia	411,155	414,635	411,720	410,655	408,715	408,390	404,535	402,260	401,740	405,595

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	1,367,665	1,378,345	1,369,475	1,364,580	1,326,455	1,322,255	1,322,585	1,322,890	1,318,370	1,321,000
Wyoming	117,950	121,025	122,415	128,705	129,555	135,225	134,650	137,995	143,575	144,080
Puerto Rico	868,650	878,375	874,100	873,860	879,050	807,145	798,310	796,935	779,125	762,380

Science and Engineering Indicators 2018

State Indicators

High school graduates 25–44 years old

State	2015	2016
United States	75,945,910	76,515,565
Alabama	1,071,290	1,069,685
Alaska	196,505	201,130
Arizona	1,504,810	1,530,970
Arkansas	664,520	658,570
California	9,299,050	9,423,595
Colorado	1,425,445	1,438,325
Connecticut	805,795	795,725
Delaware	207,945	210,340
District of Columbia	233,845	237,150
Florida	4,509,780	4,555,440
Georgia	2,415,445	2,437,365
Hawaii	370,380	367,425
Idaho	379,545	385,955
Illinois	3,109,095	3,111,145
Indiana	1,485,185	1,486,980
Iowa	705,860	706,870
Kansas	659,210	660,805
Kentucky	1,008,355	1,009,400
Louisiana	1,082,460	1,081,550
Maine	286,915	293,170
Maryland	1,453,760	1,455,975
Massachusetts	1,651,675	1,646,835
Michigan	2,186,595	2,202,125

State Indicators

State	2015	2016
Minnesota	1,325,075	1,329,670
Mississippi	659,845	661,865
Missouri	1,391,965	1,406,755
Montana	233,710	230,705
Nebraska	441,020	441,835
Nevada	685,445	698,720
New Hampshire	294,265	294,340
New Jersey	2,117,975	2,118,805
New Mexico	438,965	454,745
New York	4,771,530	4,761,515
North Carolina	2,293,040	2,328,530
North Dakota	191,895	191,375
Ohio	2,648,340	2,638,800
Oklahoma	897,100	896,500
Oregon	972,195	1,001,185
Pennsylvania	2,893,510	2,911,815
Rhode Island	241,690	246,440
South Carolina	1,090,060	1,102,720
South Dakota	193,600	192,695
Tennessee	1,521,980	1,561,185
Texas	6,519,635	6,649,745
Utah	773,695	788,205
Vermont	130,700	132,120
Virginia	2,081,760	2,065,290
Washington	1,795,715	1,834,325
West Virginia	408,365	394,850

State Indicators

State	2015	2016
Wisconsin	1,316,210	1,315,525
Wyoming	143,850	144,445
Puerto Rico	759,320	754,325
Science and Engineering Indicators 2018		

State Indicators

Individuals 25–44 years old

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	86,021,754	85,565,627	85,027,918	84,432,564	84,099,077	83,791,910	83,658,364	83,519,695	83,398,876	83,197,208
Alabama	1,284,371	1,266,952	1,249,808	1,238,460	1,231,571	1,228,586	1,233,767	1,232,608	1,231,410	1,232,200
Alaska	202,899	198,158	194,428	190,773	189,864	188,753	188,470	188,612	189,673	191,023
Arizona	1,514,406	1,526,458	1,543,384	1,554,533	1,580,090	1,620,018	1,664,223	1,682,760	1,690,369	1,685,082
Arkansas	749,201	743,315	737,150	734,963	736,873	741,013	747,504	747,162	745,354	743,283
California	10,724,282	10,750,718	10,725,588	10,697,022	10,675,493	10,619,001	10,578,738	10,519,395	10,505,976	10,493,897
Colorado	1,404,449	1,412,620	1,406,914	1,387,655	1,381,778	1,372,686	1,380,451	1,391,221	1,404,254	1,415,641
Connecticut	1,031,174	1,017,477	1,006,189	993,386	976,914	959,888	944,217	930,413	923,555	911,836
Delaware	236,255	233,890	232,409	231,993	232,563	232,763	232,516	231,339	230,357	228,638
District of Columbia	188,950	190,251	189,118	187,244	186,503	185,619	187,870	190,131	192,899	199,093
Florida	4,574,160	4,591,807	4,617,681	4,636,916	4,693,728	4,759,595	4,804,621	4,794,919	4,764,109	4,728,842
Georgia	2,656,884	2,668,017	2,668,636	2,662,858	2,674,993	2,685,792	2,727,666	2,747,437	2,758,599	2,750,052
Hawaii	361,421	357,271	354,814	350,487	351,586	355,213	358,311	355,570	358,796	360,092
Idaho	362,462	362,154	362,465	363,761	368,918	374,779	383,267	391,280	396,766	399,670
Illinois	3,787,941	3,756,180	3,720,108	3,675,421	3,634,054	3,595,524	3,572,420	3,552,188	3,537,433	3,517,245
Indiana	1,787,894	1,769,492	1,749,881	1,734,492	1,720,907	1,711,914	1,705,535	1,699,363	1,690,585	1,676,552
Iowa	805,939	793,288	780,285	768,483	759,650	753,008	747,836	747,886	746,335	745,305
Kansas	767,825	755,887	744,899	732,616	724,588	715,568	713,707	714,627	717,210	720,316
Kentucky	1,207,861	1,194,291	1,181,622	1,170,580	1,167,552	1,163,875	1,162,541	1,160,702	1,152,941	1,147,693
Louisiana	1,289,109	1,268,704	1,254,237	1,242,754	1,241,246	1,237,958	1,152,042	1,162,238	1,169,750	1,181,653
Maine	369,562	364,111	359,629	354,995	349,636	343,558	337,692	332,401	326,952	320,549
Maryland	1,663,110	1,652,198	1,643,595	1,632,141	1,620,262	1,610,134	1,598,650	1,580,856	1,569,212	1,558,062
Massachusetts	1,986,325	1,967,815	1,940,811	1,905,515	1,867,029	1,828,665	1,795,786	1,769,742	1,754,618	1,741,440
Michigan	2,952,464	2,905,689	2,851,453	2,801,823	2,754,780	2,708,190	2,658,755	2,601,061	2,537,217	2,476,233

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	1,496,022	1,486,814	1,471,180	1,453,237	1,438,206	1,423,781	1,412,852	1,411,388	1,405,692	1,399,672
Mississippi	805,410	794,888	785,469	777,834	775,580	774,027	767,066	768,082	767,502	764,156
Missouri	1,623,972	1,606,777	1,590,123	1,572,464	1,560,550	1,551,228	1,547,126	1,542,309	1,532,837	1,527,653
Montana	244,578	238,899	234,222	230,567	229,675	228,195	228,548	231,371	233,215	234,399
Nebraska	486,133	478,968	473,420	468,695	464,418	460,291	458,133	458,373	459,084	462,372
Nevada	632,738	648,880	663,253	677,529	701,910	724,049	747,896	765,237	774,847	774,536
New Hampshire	380,967	378,536	373,700	368,330	361,463	355,033	348,846	342,511	335,808	328,416
New Jersey	2,621,571	2,603,347	2,581,946	2,553,301	2,520,242	2,485,042	2,446,589	2,413,538	2,389,516	2,364,261
New Mexico	514,911	506,151	503,680	501,832	502,867	505,077	507,378	509,824	508,578	511,617
New York	5,823,214	5,775,563	5,719,243	5,659,284	5,583,555	5,492,496	5,417,603	5,357,444	5,324,739	5,290,037
North Carolina	2,502,030	2,504,293	2,497,029	2,486,750	2,489,901	2,494,079	2,518,651	2,544,472	2,570,907	2,573,672
North Dakota	174,094	168,631	164,379	160,764	159,374	157,141	156,114	158,461	159,328	162,677
Ohio	3,313,221	3,259,384	3,204,892	3,156,115	3,115,878	3,078,364	3,037,836	3,000,205	2,959,430	2,916,945
Oklahoma	972,426	960,435	951,788	940,700	936,143	933,315	938,630	945,623	949,236	959,376
Oregon	996,147	992,783	991,822	987,749	981,831	985,556	994,743	1,004,706	1,012,559	1,020,615
Pennsylvania	3,495,003	3,435,158	3,381,750	3,336,783	3,294,544	3,257,164	3,224,924	3,197,312	3,173,801	3,146,144
Rhode Island	310,069	306,912	304,816	302,712	299,215	292,094	284,670	277,823	272,611	266,874
South Carolina	1,184,456	1,175,787	1,170,078	1,165,350	1,168,196	1,169,533	1,179,555	1,186,911	1,196,665	1,195,108
South Dakota	205,892	202,454	199,552	196,608	195,250	194,053	193,284	194,894	195,036	196,965
Tennessee	1,715,304	1,699,828	1,685,039	1,675,364	1,675,964	1,679,791	1,690,961	1,697,092	1,691,716	1,684,731
Texas	6,495,058	6,529,822	6,552,685	6,556,417	6,589,095	6,634,314	6,742,164	6,835,875	6,921,332	7,007,959
Utah	627,787	633,099	641,229	650,255	663,806	679,624	701,224	726,571	746,850	765,668
Vermont	175,916	172,405	169,409	165,614	161,932	158,855	155,997	153,309	151,259	149,150
Virginia	2,237,682	2,227,441	2,212,969	2,196,616	2,192,025	2,190,025	2,190,642	2,186,905	2,189,453	2,191,638
Washington	1,814,246	1,805,606	1,792,653	1,774,739	1,771,863	1,774,193	1,791,998	1,803,331	1,819,408	1,835,742
West Virginia	498,535	487,860	481,424	476,738	472,377	469,859	468,119	465,516	463,268	460,260

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	1,578,869	1,561,327	1,544,764	1,526,655	1,510,765	1,495,134	1,479,447	1,471,698	1,462,682	1,452,804
Wyoming	138,145	134,483	132,677	130,128	129,628	129,772	131,399	135,001	138,230	143,309
Puerto Rico	1,048,414	1,042,353	1,037,623	1,034,563	1,032,246	1,027,725	1,019,384	1,010,002	998,917	986,055

Science and Engineering Indicators 2018

State Indicators

Individuals 25–44 years old

State	2010	2011	2012	2013	2014	2015	2016
United States	83,173,237	83,412,874	83,782,248	84,247,929	84,798,348	85,361,982	86,000,713
Alabama	1,228,978	1,225,634	1,226,353	1,228,347	1,230,594	1,232,897	1,233,200
Alaska	197,517	200,002	203,563	206,575	207,927	209,339	212,598
Arizona	1,681,276	1,687,681	1,699,025	1,711,497	1,731,179	1,751,183	1,778,348
Arkansas	743,050	745,216	746,558	748,294	750,170	753,451	757,481
California	10,512,391	10,571,346	10,651,255	10,745,573	10,861,413	10,965,621	11,077,717
Colorado	1,430,149	1,447,895	1,468,606	1,491,649	1,515,469	1,550,077	1,584,485
Connecticut	903,104	896,900	892,103	887,452	878,660	869,920	865,026
Delaware	227,468	227,605	228,424	230,859	234,274	236,303	236,926
District of Columbia	208,090	218,863	228,577	237,033	242,543	247,300	253,880
Florida	4,727,007	4,768,130	4,818,453	4,874,142	4,954,171	5,051,928	5,147,714
Georgia	2,733,258	2,734,267	2,738,442	2,738,272	2,750,340	2,766,800	2,785,270
Hawaii	362,425	365,901	371,302	376,826	379,968	382,886	385,131
Idaho	401,002	403,370	405,336	409,290	414,914	419,606	427,556
Illinois	3,500,538	3,489,539	3,478,308	3,472,623	3,459,204	3,438,036	3,420,788
Indiana	1,667,816	1,664,993	1,661,341	1,666,835	1,669,673	1,670,534	1,674,571
Iowa	748,136	749,752	749,556	751,551	754,578	757,891	761,908
Kansas	725,776	726,506	729,068	729,900	730,187	731,072	731,695
Kentucky	1,142,933	1,138,649	1,133,232	1,129,696	1,127,096	1,127,392	1,128,341
Louisiana	1,197,346	1,206,772	1,215,994	1,225,045	1,235,901	1,247,248	1,255,903
Maine	314,789	312,103	309,981	309,062	308,593	307,640	307,761
Maryland	1,559,855	1,566,931	1,577,528	1,585,566	1,590,862	1,594,602	1,595,834
Massachusetts	1,733,305	1,738,358	1,747,654	1,758,282	1,767,195	1,772,450	1,777,342
Michigan	2,433,532	2,408,814	2,393,961	2,389,454	2,390,497	2,395,882	2,408,971

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	1,396,248	1,399,366	1,403,484	1,410,900	1,415,140	1,417,686	1,425,118
Mississippi	762,824	761,913	761,063	760,674	760,776	760,047	759,788
Missouri	1,525,178	1,524,950	1,524,200	1,527,996	1,532,218	1,536,268	1,543,906
Montana	236,001	237,500	239,253	242,301	245,097	248,256	252,419
Nebraska	467,033	469,996	473,125	476,737	478,319	480,158	483,474
Nevada	769,354	766,879	771,761	776,988	787,617	800,510	815,885
New Hampshire	322,611	318,701	315,897	313,684	313,019	311,584	312,785
New Jersey	2,346,017	2,336,404	2,330,142	2,323,822	2,318,307	2,309,847	2,308,261
New Mexico	517,396	520,123	521,382	521,877	521,329	521,194	522,592
New York	5,271,378	5,288,119	5,307,099	5,327,043	5,341,564	5,348,795	5,353,334
North Carolina	2,575,118	2,576,995	2,580,484	2,590,070	2,600,169	2,608,892	2,625,691
North Dakota	166,628	170,338	176,161	184,213	190,879	198,242	199,967
Ohio	2,886,045	2,872,245	2,862,653	2,869,282	2,877,473	2,881,214	2,887,030
Oklahoma	969,276	977,057	985,949	997,305	1,006,091	1,017,009	1,024,244
Oregon	1,024,895	1,031,782	1,038,993	1,046,561	1,059,123	1,078,951	1,106,741
Pennsylvania	3,126,572	3,126,262	3,133,536	3,143,973	3,153,942	3,158,013	3,158,878
Rhode Island	263,517	261,756	261,483	262,558	264,164	264,933	266,053
South Carolina	1,193,852	1,192,932	1,197,807	1,207,402	1,221,676	1,238,814	1,254,441
South Dakota	199,057	201,065	203,893	206,750	208,320	209,084	210,858
Tennessee	1,677,890	1,677,077	1,683,001	1,688,293	1,698,535	1,708,312	1,723,338
Texas	7,096,850	7,195,358	7,309,268	7,416,119	7,550,968	7,688,925	7,812,015
Utah	781,517	792,675	801,458	812,973	824,718	838,623	859,778
Vermont	147,563	146,261	145,055	144,800	143,497	142,347	142,213
Virginia	2,204,259	2,217,478	2,234,087	2,246,952	2,253,213	2,256,437	2,257,985
Washington	1,846,005	1,865,039	1,884,398	1,905,767	1,933,851	1,970,778	2,022,565
West Virginia	458,010	455,631	453,078	450,295	447,677	445,342	441,833

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	1,445,260	1,437,766	1,429,747	1,424,774	1,420,131	1,414,193	1,414,479
Wyoming	144,921	146,057	149,168	150,663	152,018	153,571	153,282
Puerto Rico	972,221	949,922	930,003	913,334	893,109	873,899	853,314

Science and Engineering Indicators 2018

State Indicators

S-16 Associate's Degrees in Science and Engineering Conferred per 1,000 Individuals 18–24 Years Old

Description

This indicator represents the extent to which a state provides associate's-level training in science and engineering fields, controlling for the size of its college-age population. The cohort 18–24 years old was chosen to approximate the age range of most students who are pursuing an associate's degree.

Educational attainment in an S&E field provides the advanced skills and technical expertise needed for a competitive workforce. A skilled workforce is important for a region's innovative capacity, productivity, and technological growth.

The National Center for Education Statistics counts the number of associate's degrees awarded in S&E fields. S&E fields include the physical, life, earth, ocean, atmospheric, computer, and social sciences; mathematics; engineering; and psychology. They do not include medical fields or technologies. Associate's degrees are awarded at both 2-year and 4-year institutions in the United States, and the data include degrees from both public and private institutions. These values are reported by the state in which the school is located.

Estimates of the population aged 18–24 are provided by the U.S. Census Bureau based on the 2000 and 2010 Decennial Censuses and are reported by the state of residence. Each year, the Census Bureau utilizes current data on births, deaths, and migration to calculate population change since the most recent decennial census and produces time series of estimates of population. Because these are estimates, small differences in the indicator value between states or across time generally are not meaningful. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

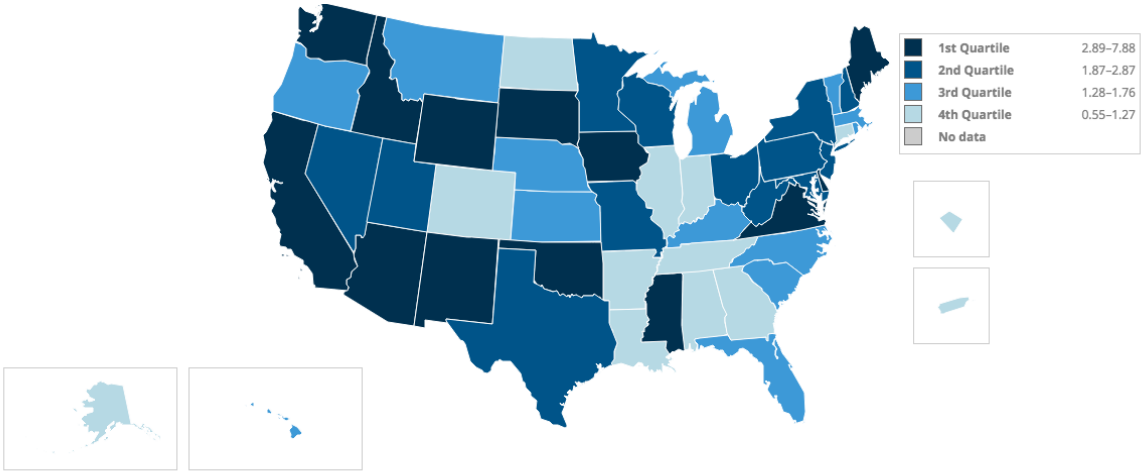
Because students may move across state lines after receiving their associate's degree, this indicator does not necessarily predict the qualifications of a state's future technical workforce.

Data sources: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program.

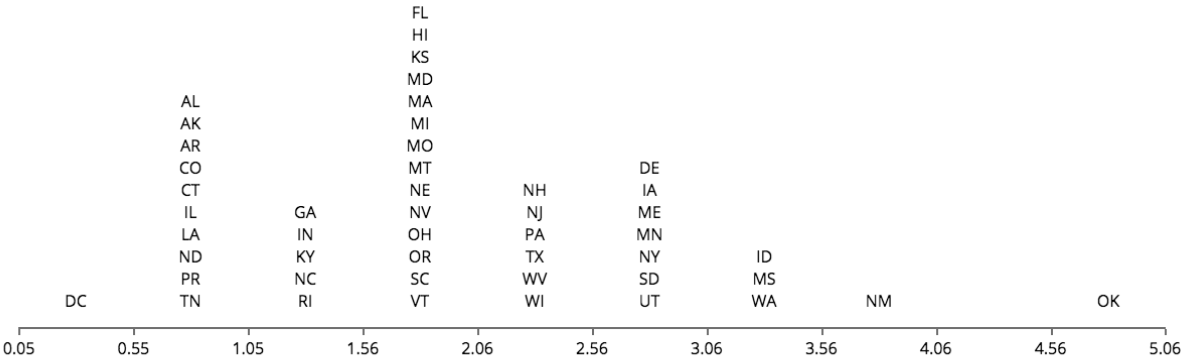
State Indicators

S-16 Associate's Degrees in Science and Engineering Conferred per 1,000 Individuals 18–24 Years Old

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

Associate's Degrees in Science and Engineering Conferred per 1,000 Individuals 18–24 Years Old

(Degrees)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	1.39	1.59	1.77	2.14	2.03	1.83	1.66	1.57	1.61	1.76
Alabama	1.11	1.30	1.54	1.64	1.38	1.15	0.97	0.69	0.77	0.72
Alaska	0.05	NA	NA	0.91	0.51	0.27	0.43	0.22	0.19	0.18
Arizona	1.52	1.86	1.99	2.37	2.65	2.37	2.19	2.47	4.26	8.23
Arkansas	0.69	0.61	0.75	1.05	0.79	0.78	0.83	0.77	0.61	0.74
California	2.24	2.14	2.47	2.80	2.58	2.42	2.39	2.41	2.53	2.89
Colorado	1.38	1.66	1.86	1.70	1.50	1.16	0.74	0.62	0.66	1.11
Connecticut	0.42	0.44	0.57	0.82	0.78	0.87	0.71	0.53	0.53	0.57
Delaware	1.04	0.92	0.77	0.85	1.44	1.42	1.85	1.53	1.08	1.47
District of Columbia	2.13	2.98	3.31	2.55	3.04	0.55	2.68	2.04	1.68	1.25
Florida	0.71	1.50	1.33	2.71	2.26	2.03	1.50	1.25	1.00	0.93
Georgia	0.25	0.32	0.43	1.34	1.47	1.14	1.12	0.92	0.92	0.92
Hawaii	1.69	1.55	1.51	2.69	2.37	2.19	1.67	1.87	1.16	1.22
Idaho	2.98	3.61	3.25	2.79	2.37	1.48	1.20	1.24	1.49	1.41
Illinois	0.41	0.57	0.61	1.39	1.14	1.32	1.14	1.03	0.98	0.79
Indiana	1.18	1.19	1.61	1.69	1.64	1.59	1.50	1.26	1.21	1.33
Iowa	0.64	1.09	1.44	2.49	2.58	2.30	2.22	2.26	2.20	2.41
Kansas	3.38	3.15	3.00	2.97	1.93	1.90	1.58	1.42	1.49	1.43
Kentucky	0.93	1.12	1.44	1.67	1.75	1.55	1.39	1.44	1.17	1.21
Louisiana	1.05	1.57	1.14	1.20	1.17	1.23	0.80	0.73	0.65	0.59
Maine	0.52	0.76	0.92	0.67	1.00	0.53	0.56	0.58	0.72	0.50
Maryland	0.59	0.62	0.64	0.88	0.86	0.98	0.82	0.74	0.81	0.92
Massachusetts	1.13	1.07	1.52	1.55	1.64	1.31	1.01	0.99	0.97	1.06

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	1.08	1.38	1.55	1.61	1.54	1.57	1.53	1.56	1.68	2.04
Minnesota	1.11	1.55	1.72	2.61	2.25	2.12	1.78	1.70	1.72	1.87
Mississippi	0.96	1.15	1.85	1.51	1.79	1.65	1.33	1.57	1.58	1.54
Missouri	1.22	1.46	1.73	2.69	2.22	1.71	1.42	1.37	1.44	1.49
Montana	1.65	1.86	2.15	2.31	2.01	1.59	1.69	1.28	1.65	1.27
Nebraska	2.51	3.14	3.48	2.72	2.34	2.60	1.95	1.82	1.74	1.82
Nevada	0.54	0.80	1.30	1.40	1.39	1.18	1.19	1.32	1.23	1.24
New Hampshire	2.70	3.05	3.04	2.52	2.59	2.16	1.90	2.21	1.95	2.12
New Jersey	2.12	1.66	1.96	1.96	1.93	1.62	1.46	1.28	1.27	1.29
New Mexico	1.26	2.05	1.38	1.61	1.50	1.49	1.65	1.75	1.59	1.59
New York	2.19	2.85	2.73	2.98	2.57	2.26	1.91	1.69	1.62	1.63
North Carolina	0.48	0.72	1.02	1.95	1.91	1.58	1.39	1.07	0.89	0.99
North Dakota	0.63	1.10	0.91	1.31	1.73	1.03	0.77	0.90	1.14	0.94
Ohio	1.39	1.52	1.84	2.26	2.38	2.01	2.01	1.78	1.93	1.91
Oklahoma	2.46	2.68	2.56	3.12	3.08	3.47	3.30	3.40	3.10	3.04
Oregon	0.90	0.85	1.01	1.29	1.39	1.11	1.11	0.86	0.76	1.01
Pennsylvania	1.77	1.93	2.62	2.51	2.45	2.27	2.07	1.97	1.89	1.89
Rhode Island	2.61	2.44	3.01	2.68	2.67	2.56	2.38	2.13	2.25	2.14
South Carolina	1.06	1.10	1.18	1.27	1.08	1.09	0.95	0.86	0.89	0.86
South Dakota	2.22	2.31	2.99	3.98	4.42	2.55	1.95	2.13	1.95	1.94
Tennessee	0.51	0.57	1.03	1.18	1.01	1.05	0.96	0.88	0.87	0.93
Texas	1.26	1.52	1.48	1.72	1.75	1.62	1.49	1.43	1.45	1.45
Utah	1.84	2.12	2.95	2.86	2.70	2.47	2.02	1.97	1.78	1.64
Vermont	2.41	1.90	2.34	2.25	1.88	1.37	1.62	1.13	0.89	1.06
Virginia	1.79	1.98	2.33	2.76	2.71	2.70	3.03	3.05	3.83	3.76
Washington	1.17	1.66	2.19	2.80	3.22	2.32	1.90	1.71	1.77	1.76

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	0.54	1.46	1.56	1.62	1.50	1.43	0.80	1.03	0.94	0.98
Wisconsin	1.13	1.51	1.68	2.79	2.64	2.27	1.91	1.76	1.57	1.64
Wyoming	4.37	5.23	5.52	5.76	5.46	5.42	5.57	5.53	5.74	5.33
Puerto Rico	1.99	1.65	1.42	1.27	1.34	1.06	0.83	0.88	0.82	0.95

NA not available

Note(s):
The national associate's S&E degrees total for the United States includes U.S. territories; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (various years). Data on degrees conferred prior to 2016 were retrieved from the National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR); data for 2016 are from the NCES IPEDS Data System, accessed 2 November, 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Associate's Degrees in Science and Engineering Conferred per 1,000 Individuals 18–24 Years Old

(Degrees)

State	2010	2011	2012	2013	2014	2015	2016
United States	2.00	2.42	2.66	2.69	2.77	2.88	2.85
Alabama	0.79	0.95	1.00	0.92	0.84	0.83	0.63
Alaska	0.48	1.24	0.97	1.20	1.00	0.74	0.78
Arizona	12.85	17.87	18.80	13.90	12.01	10.11	7.88
Arkansas	0.82	0.62	0.59	0.64	0.70	0.74	0.64
California	3.23	3.82	4.37	5.24	5.95	6.66	7.74
Colorado	1.18	0.89	0.76	0.83	0.81	0.89	0.80
Connecticut	0.56	0.64	0.70	0.79	0.78	0.92	0.84
Delaware	1.31	1.46	1.55	2.03	2.51	2.51	2.90
District of Columbia	1.16	1.22	0.81	0.83	0.72	0.74	0.55
Florida	0.94	1.09	1.31	1.60	1.86	1.85	1.57
Georgia	1.01	1.31	1.28	1.33	1.35	1.49	1.25
Hawaii	1.03	1.05	1.51	1.49	1.52	1.23	1.76
Idaho	1.28	1.68	2.23	3.29	3.44	3.22	3.45
Illinois	0.91	1.07	1.18	1.17	1.15	1.19	1.05
Indiana	1.44	1.91	2.43	2.59	2.73	2.25	1.27
Iowa	2.72	3.97	4.48	3.59	3.49	3.21	2.89
Kansas	1.41	2.05	2.13	1.67	2.06	2.02	1.74
Kentucky	1.43	1.66	1.50	1.26	1.22	1.56	1.28
Louisiana	0.76	0.84	0.90	0.89	0.95	0.86	0.67
Maine	0.47	0.58	0.55	0.65	2.26	2.76	2.93
Maryland	1.37	1.54	1.63	1.50	1.85	2.09	2.05
Massachusetts	1.20	1.34	1.56	1.64	1.79	1.89	1.70

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	2.23	2.48	2.32	2.13	1.96	1.92	1.64
Minnesota	2.27	2.63	2.77	2.87	2.74	2.80	2.58
Mississippi	1.85	2.43	2.95	2.49	2.78	3.19	3.38
Missouri	1.62	1.88	2.05	1.92	1.83	2.02	1.94
Montana	1.26	1.80	1.93	1.76	1.86	1.56	1.59
Nebraska	1.73	1.66	1.96	2.07	1.97	1.77	1.56
Nevada	1.29	2.00	1.81	1.85	2.11	2.24	1.87
New Hampshire	2.23	2.37	2.52	2.42	2.24	2.21	2.09
New Jersey	1.49	1.64	1.85	1.79	1.99	2.19	2.35
New Mexico	1.46	1.70	1.98	2.99	3.34	3.79	4.01
New York	1.60	2.05	2.18	2.52	2.62	2.79	2.87
North Carolina	1.09	1.45	1.61	1.48	1.50	1.61	1.42
North Dakota	1.17	1.21	1.04	1.15	1.07	0.80	0.86
Ohio	1.92	2.33	2.42	2.21	2.01	2.01	1.96
Oklahoma	3.37	4.00	4.70	4.89	5.08	5.06	4.77
Oregon	1.09	1.50	1.72	1.65	1.71	1.89	1.74
Pennsylvania	1.99	2.19	2.48	2.39	2.36	2.30	2.19
Rhode Island	2.37	2.23	1.77	1.56	1.35	1.54	1.42
South Carolina	0.97	1.00	1.57	1.96	1.74	1.87	1.67
South Dakota	2.13	2.96	2.68	2.93	3.03	2.90	3.05
Tennessee	0.74	0.96	1.24	1.04	1.05	0.97	0.70
Texas	1.62	1.77	2.02	2.03	2.00	2.22	2.14
Utah	1.85	2.18	2.25	2.14	2.23	2.47	2.63
Vermont	1.13	1.63	1.47	1.53	1.52	1.31	1.61
Virginia	4.07	4.82	5.37	5.48	5.23	5.57	5.29
Washington	2.10	2.42	2.95	3.03	3.15	3.19	3.45

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	1.06	1.79	1.64	2.07	1.70	2.32	2.24
Wisconsin	1.85	2.40	2.67	2.51	2.22	1.95	2.07
Wyoming	5.93	6.03	6.05	6.73	6.38	7.74	7.18
Puerto Rico	1.03	0.98	1.03	0.77	1.11	0.98	0.84

NA not available

Note(s):
The national associate's S&E degrees total for the United States includes U.S. territories; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (various years). Data on degrees conferred prior to 2016 were retrieved from the National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR); data for 2016 are from the NCES IPEDS Data System, accessed 2 November, 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S&E associate's degrees

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	19,810	19,352	22,722	23,420	25,581	24,228	25,655	27,201	30,897	35,376
Alabama	836	707	1,087	1,083	523	505	602	614	505	450
Alaska	2	4	3	31	11	7	5	5	6	1
Arizona	198	188	236	256	239	234	231	251	289	380
Arkansas	27	22	5	93	119	12	4	13	15	28
California	4,348	4,038	4,502	5,237	5,489	5,975	6,467	6,949	8,201	8,609
Colorado	365	381	162	106	80	89	100	169	236	392
Connecticut	45	45	32	36	52	24	27	29	24	56
Delaware	54	51	47	54	44	47	46	45	46	53
District of Columbia	93	100	109	138	157	143	160	182	157	140
Florida	161	183	201	285	309	272	331	468	718	868
Georgia	194	184	162	77	147	99	174	152	220	214
Hawaii	77	92	90	59	68	59	100	76	146	130
Idaho	296	246	314	312	367	387	395	361	484	488
Illinois	32	14	21	12	20	18	125	159	175	279
Indiana	435	498	609	561	541	461	457	475	522	558
Iowa	204	94	112	124	138	98	138	138	106	132
Kansas	413	389	513	472	578	541	590	710	681	735
Kentucky	246	248	241	306	310	285	273	271	315	389
Louisiana	87	63	127	113	114	153	127	144	157	446
Maine	55	54	72	90	62	67	46	59	44	63
Maryland	107	108	247	234	261	234	231	198	240	228
Massachusetts	446	358	391	280	460	390	429	403	564	534
Michigan	1,022	1,064	1,002	1,068	2,359	1,114	990	958	1,168	1,180

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	165	233	265	321	232	170	231	235	337	354
Mississippi	235	251	228	238	220	215	186	145	236	276
Missouri	244	271	194	188	135	195	268	289	301	456
Montana	41	26	69	53	75	89	107	102	124	118
Nebraska	110	127	146	163	209	220	200	262	313	382
Nevada	30	49	40	54	42	46	47	37	62	77
New Hampshire	134	155	195	133	126	138	147	178	195	228
New Jersey	450	446	495	565	670	682	640	875	999	1,136
New Mexico	131	102	107	148	155	143	191	215	205	192
New York	2,151	1,998	2,786	2,883	2,919	2,700	2,796	2,863	3,174	3,618
North Carolina	89	59	82	86	126	109	112	126	146	234
North Dakota	27	25	33	51	26	43	66	28	48	46
Ohio	1,138	1,184	1,420	1,218	1,240	1,239	1,415	1,256	1,280	1,476
Oklahoma	719	795	796	786	864	877	865	894	943	945
Oregon	162	124	138	139	131	101	97	134	177	145
Pennsylvania	679	699	749	848	866	928	976	1,069	1,300	2,416
Rhode Island	157	176	191	151	163	153	132	208	195	166
South Carolina	12	1	323	251	246	241	248	296	304	370
South Dakota	62	53	53	42	74	79	179	142	181	172
Tennessee	177	151	209	143	138	126	144	151	157	221
Texas	1,391	1,327	1,722	1,778	2,071	2,045	1,919	1,915	2,064	2,318
Utah	121	143	199	169	218	307	307	379	523	533
Vermont	49	51	48	43	66	48	61	72	45	83
Virginia	508	520	604	468	558	607	609	630	705	888
Washington	209	267	300	272	292	279	355	411	395	467
West Virginia	59	68	70	60	76	74	79	70	106	94

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	230	254	290	434	413	437	490	589	491	498
Wyoming	190	211	225	206	270	234	342	290	247	223
Puerto Rico	388	453	442	484	507	482	386	490	607	879

Science and Engineering Indicators 2018

State Indicators

S&E associate's degrees

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	38,434	45,226	51,194	62,805	60,246	54,750	49,850	47,485	49,166	54,284
Alabama	489	583	694	748	634	527	447	319	363	341
Alaska	3	NA	NA	62	37	20	32	16	14	13
Arizona	789	996	1,094	1,328	1,515	1,373	1,295	1,496	2,647	5,179
Arkansas	181	163	205	288	218	215	227	213	171	209
California	7,612	7,463	8,777	10,098	9,435	8,923	8,839	9,011	9,636	11,203
Colorado	600	751	865	793	708	549	355	294	319	540
Connecticut	115	122	162	239	233	266	220	167	170	185
Delaware	79	72	62	70	119	119	157	133	96	132
District of Columbia	156	216	238	182	220	41	206	160	137	106
Florida	954	2,105	1,944	4,098	3,558	3,281	2,480	2,115	1,718	1,611
Georgia	212	275	375	1,185	1,333	1,022	1,022	852	871	891
Hawaii	196	187	188	340	304	285	220	239	149	157
Idaho	417	521	477	419	361	227	185	191	232	219
Illinois	503	707	752	1,723	1,425	1,639	1,407	1,273	1,220	982
Indiana	733	747	1,015	1,081	1,056	1,018	958	801	776	863
Iowa	191	331	443	778	814	720	692	696	675	738
Kansas	935	892	864	870	572	563	468	413	436	413
Kentucky	376	460	596	691	730	643	563	588	476	499
Louisiana	502	761	563	601	593	618	369	342	304	281
Maine	54	81	101	76	115	62	66	67	84	58
Maryland	266	292	310	436	437	505	430	397	441	510
Massachusetts	657	634	917	948	1,011	816	646	645	641	717
Michigan	1,016	1,317	1,498	1,580	1,520	1,542	1,489	1,506	1,629	1,988

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	527	752	856	1,328	1,154	1,095	923	871	880	949
Mississippi	300	363	586	481	571	517	407	477	483	468
Missouri	656	809	973	1,546	1,296	1,000	830	800	844	879
Montana	142	166	198	221	196	157	168	124	160	121
Nebraska	440	562	634	505	441	493	368	337	321	333
Nevada	99	152	255	284	294	261	273	313	300	307
New Hampshire	280	328	338	289	304	260	231	270	240	262
New Jersey	1,443	1,144	1,366	1,385	1,382	1,166	1,062	946	951	984
New Mexico	224	379	263	317	302	303	334	353	320	322
New York	3,872	5,144	4,960	5,479	4,751	4,186	3,561	3,201	3,137	3,201
North Carolina	394	594	851	1,602	1,605	1,349	1,217	943	814	925
North Dakota	46	84	72	107	147	88	66	75	94	76
Ohio	1,477	1,642	2,003	2,491	2,614	2,194	2,175	1,922	2,102	2,100
Oklahoma	880	991	967	1,193	1,190	1,330	1,259	1,292	1,175	1,153
Oregon	298	287	350	450	484	387	389	304	273	364
Pennsylvania	1,942	2,167	2,984	2,918	2,876	2,692	2,484	2,398	2,328	2,369
Rhode Island	280	268	339	304	307	296	278	249	267	257
South Carolina	437	458	501	541	471	477	417	390	411	406
South Dakota	173	184	243	331	375	216	165	176	160	159
Tennessee	281	322	587	675	580	605	548	513	512	557
Texas	2,800	3,478	3,456	4,098	4,228	3,941	3,671	3,539	3,636	3,708
Utah	588	697	984	954	887	806	651	630	569	523
Vermont	137	112	142	141	120	89	106	74	58	69
Virginia	1,226	1,401	1,673	2,030	2,041	2,071	2,368	2,402	3,032	3,006
Washington	660	973	1,319	1,718	1,992	1,442	1,197	1,076	1,140	1,150
West Virginia	94	254	273	283	260	245	135	171	157	165

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	591	806	918	1,554	1,489	1,282	1,080	984	875	910
Wyoming	219	271	298	321	311	307	315	313	327	306
Puerto Rico	855	709	606	537	557	434	331	343	315	360

NA not available

Science and Engineering Indicators 2018

State Indicators

S&E associate's degrees

State	2010	2011	2012	2013	2014	2015	2016
United States	62,211	76,021	84,641	85,798	87,976	90,589	88,832
Alabama	380	459	484	448	403	391	290
Alaska	36	95	76	96	79	57	59
Arizona	8,174	11,586	12,440	9,281	8,076	6,791	5,296
Arkansas	233	179	171	186	201	211	180
California	12,703	15,201	17,535	21,052	23,742	26,123	29,799
Colorado	580	445	386	429	422	473	425
Connecticut	185	217	240	274	275	324	297
Delaware	119	135	144	186	224	218	248
District of Columbia	100	103	67	68	58	60	44
Florida	1,640	1,926	2,344	2,868	3,318	3,256	2,732
Georgia	985	1,296	1,296	1,348	1,366	1,508	1,253
Hawaii	135	139	202	200	204	163	226
Idaho	198	261	347	512	538	500	540
Illinois	1,133	1,340	1,486	1,474	1,432	1,472	1,270
Indiana	941	1,255	1,619	1,741	1,835	1,503	843
Iowa	833	1,238	1,416	1,152	1,130	1,038	931
Kansas	407	596	631	499	619	606	517
Kentucky	596	699	641	543	525	663	537
Louisiana	363	400	430	421	441	392	297
Maine	55	68	64	74	255	306	323
Maryland	767	872	925	848	1,041	1,158	1,121
Massachusetts	822	928	1,086	1,150	1,261	1,331	1,200
Michigan	2,175	2,454	2,335	2,150	1,977	1,904	1,597

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	1,144	1,329	1,407	1,459	1,393	1,419	1,307
Mississippi	565	750	917	783	861	964	1,000
Missouri	957	1,114	1,220	1,144	1,085	1,188	1,123
Montana	120	174	190	176	186	156	158
Nebraska	317	306	365	391	376	340	301
Nevada	320	500	459	470	536	563	468
New Hampshire	275	297	318	309	289	284	267
New Jersey	1,149	1,277	1,459	1,423	1,587	1,734	1,848
New Mexico	298	353	417	629	693	772	804
New York	3,167	4,105	4,362	5,036	5,177	5,417	5,473
North Carolina	1,023	1,379	1,547	1,432	1,450	1,557	1,370
North Dakota	95	101	91	106	100	75	78
Ohio	2,117	2,588	2,691	2,460	2,220	2,187	2,106
Oklahoma	1,285	1,538	1,834	1,921	1,991	1,968	1,827
Oregon	392	542	630	605	626	692	637
Pennsylvania	2,514	2,776	3,133	2,996	2,904	2,778	2,595
Rhode Island	285	269	213	184	158	178	162
South Carolina	465	482	760	947	833	885	784
South Dakota	174	245	225	248	257	245	258
Tennessee	452	591	778	653	658	607	431
Texas	4,197	4,642	5,416	5,506	5,506	6,148	5,925
Utah	590	701	737	715	749	837	902
Vermont	74	108	98	103	103	89	109
Virginia	3,278	3,926	4,408	4,518	4,310	4,554	4,300
Washington	1,363	1,599	1,959	2,017	2,096	2,116	2,282
West Virginia	179	306	283	356	290	384	362

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	1,017	1,326	1,493	1,415	1,257	1,105	1,163
Wyoming	334	341	352	398	369	439	396
Puerto Rico	389	369	382	285	399	339	282

Science and Engineering Indicators 2018

State Indicators

Individuals 18–24 years old

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	27,744,738	28,423,532	28,908,773	29,340,084	29,719,320	29,849,590	30,001,425	30,197,665	30,579,025	30,909,846
Alabama	442,244	447,963	450,657	456,549	457,934	458,170	459,114	462,996	470,431	476,884
Alaska	57,670	61,774	65,287	68,253	71,882	73,591	74,369	74,383	75,206	73,249
Arizona	519,627	536,018	549,407	559,859	571,196	580,341	591,986	605,860	621,451	629,438
Arkansas	263,749	268,131	272,203	275,122	275,779	274,439	273,882	275,325	278,835	281,953
California	3,391,356	3,488,933	3,557,190	3,608,183	3,661,991	3,684,405	3,700,882	3,742,151	3,812,579	3,882,345
Colorado	433,665	453,712	464,101	466,666	471,390	472,661	477,387	475,931	481,504	485,310
Connecticut	272,527	278,499	285,757	292,790	298,738	306,038	310,891	315,199	320,268	325,143
Delaware	75,953	78,530	80,679	82,204	82,812	83,750	84,759	86,897	88,587	89,792
District of Columbia	73,084	72,568	71,806	71,395	72,344	74,299	76,839	78,528	81,763	84,944
Florida	1,341,695	1,401,785	1,456,250	1,513,146	1,573,346	1,614,399	1,652,892	1,687,966	1,717,154	1,731,012
Georgia	844,819	866,190	877,530	883,347	904,353	898,133	915,634	928,910	948,921	967,705
Hawaii	116,069	120,970	124,630	126,618	128,434	130,135	131,489	127,842	128,537	128,942
Idaho	139,787	144,212	146,715	150,356	152,372	153,122	153,844	154,347	155,327	155,175
Illinois	1,216,712	1,230,513	1,233,528	1,241,064	1,253,340	1,243,356	1,238,706	1,241,440	1,245,766	1,249,006
Indiana	618,678	628,372	631,917	639,311	642,292	639,669	638,724	637,509	643,543	648,815
Iowa	299,309	303,271	306,683	311,990	315,079	313,294	312,319	307,599	307,267	306,811
Kansas	276,874	282,851	288,353	292,928	296,216	296,639	296,431	290,759	292,316	288,906
Kentucky	404,122	411,270	414,048	414,808	417,231	414,078	405,029	407,676	407,552	411,033
Louisiana	476,115	485,975	494,717	501,600	506,373	501,875	459,662	466,575	469,138	473,182
Maine	104,441	107,177	110,043	113,528	115,063	116,655	117,346	116,426	117,246	117,074
Maryland	454,223	470,318	484,638	498,098	508,100	517,295	525,903	535,532	543,624	552,217
Massachusetts	582,419	594,747	602,799	612,982	617,664	623,551	637,145	648,900	661,626	674,971
Michigan	936,873	955,459	968,580	983,181	987,400	982,064	975,541	967,382	970,359	972,787

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	473,390	486,444	496,503	508,666	513,913	515,385	517,679	512,542	512,238	508,202
Mississippi	312,494	316,243	317,256	318,421	318,565	313,339	306,076	304,284	304,997	304,758
Missouri	539,169	552,622	563,553	574,714	583,646	584,938	583,691	583,425	586,722	588,424
Montana	86,160	89,343	91,911	95,495	97,456	98,622	99,357	96,964	97,094	95,647
Nebraska	175,138	178,947	182,262	185,977	188,301	189,908	188,966	185,312	184,622	183,325
Nevada	182,316	190,232	195,507	202,535	211,757	220,418	229,614	237,590	244,687	246,657
New Hampshire	103,843	107,717	111,142	114,468	117,460	120,104	121,400	121,926	122,815	123,384
New Jersey	679,480	690,374	698,237	707,974	715,500	720,555	729,181	738,538	751,070	761,463
New Mexico	178,009	184,493	191,116	197,243	201,894	202,928	202,027	201,915	201,729	202,410
New York	1,770,901	1,802,422	1,817,402	1,837,040	1,847,979	1,855,760	1,869,014	1,898,728	1,936,825	1,968,102
North Carolina	814,559	824,717	831,246	822,476	841,493	852,278	876,910	883,733	910,643	930,168
North Dakota	73,369	76,459	78,829	81,755	85,049	85,272	85,992	82,958	82,307	81,007
Ohio	1,062,598	1,079,689	1,090,537	1,102,013	1,099,582	1,089,625	1,083,220	1,081,338	1,089,460	1,098,028
Oklahoma	358,278	369,614	377,519	382,018	386,493	383,690	381,715	379,930	378,846	379,849
Oregon	329,918	337,357	344,972	349,353	348,770	349,448	350,178	352,686	356,879	359,611
Pennsylvania	1,099,628	1,121,223	1,140,351	1,160,469	1,173,247	1,183,666	1,200,427	1,214,618	1,231,877	1,252,413
Rhode Island	107,167	109,990	112,756	113,403	115,173	115,595	116,788	117,090	118,410	120,362
South Carolina	411,181	418,111	422,972	426,375	435,193	436,657	440,769	451,135	462,550	472,254
South Dakota	78,009	79,716	81,213	83,126	84,773	84,665	84,428	82,444	82,232	81,791
Tennessee	552,574	563,268	567,742	569,833	575,572	577,652	572,909	584,262	589,192	601,552
Texas	2,213,745	2,283,119	2,340,371	2,386,950	2,420,595	2,434,329	2,463,849	2,477,138	2,511,528	2,548,560
Utah	319,748	328,513	333,724	333,377	328,927	326,725	322,408	320,017	319,576	319,374
Vermont	56,798	58,845	60,590	62,583	63,919	64,910	65,566	65,359	65,116	65,131
Virginia	685,504	706,828	719,251	735,315	753,770	767,898	781,520	787,086	792,590	799,881
Washington	563,285	586,456	602,467	613,184	617,717	622,059	628,998	629,091	642,409	652,077
West Virginia	173,008	174,409	174,600	174,922	173,667	170,930	168,204	166,625	166,170	168,023

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	522,855	534,453	545,215	557,344	563,471	565,538	564,587	558,563	555,711	553,763
Wyoming	50,139	51,810	53,946	55,739	56,968	56,693	56,592	56,595	56,979	57,436
Puerto Rico	429,464	430,880	428,065	423,338	417,141	408,044	398,586	389,640	384,751	379,500

Science and Engineering Indicators 2018

State Indicators

Individuals 18–24 years old

State	2010	2011	2012	2013	2014	2015	2016
United States	31,142,916	31,466,489	31,760,339	31,872,876	31,797,953	31,507,801	31,179,139
Alabama	479,993	481,675	483,985	484,912	478,688	468,855	459,616
Alaska	75,444	76,374	78,133	80,131	79,164	77,519	75,274
Arizona	636,064	648,466	661,741	667,771	672,301	671,833	672,268
Arkansas	285,562	289,012	290,119	290,019	288,759	285,507	281,738
California	3,934,016	3,975,732	4,015,379	4,013,829	3,987,645	3,923,647	3,848,787
Colorado	491,414	499,709	507,533	515,465	522,183	530,067	534,131
Connecticut	331,355	337,340	340,718	345,534	350,400	352,240	352,024
Delaware	91,057	92,170	92,920	91,718	89,344	86,989	85,584
District of Columbia	86,291	84,527	83,136	81,783	80,615	80,824	80,141
Florida	1,745,479	1,774,229	1,788,029	1,789,014	1,780,571	1,759,078	1,739,623
Georgia	975,587	992,510	1,013,408	1,012,603	1,014,071	1,011,112	1,005,386
Hawaii	131,324	132,577	133,686	134,563	133,899	132,282	128,771
Idaho	154,398	155,075	155,514	155,836	156,570	155,392	156,563
Illinois	1,247,611	1,250,030	1,255,592	1,258,145	1,250,294	1,234,068	1,214,511
Indiana	651,642	658,360	665,163	671,014	672,718	667,571	661,254
Iowa	306,720	311,956	316,088	321,082	323,807	323,354	322,097
Kansas	289,077	290,697	295,939	298,732	300,356	300,185	297,133
Kentucky	415,967	421,402	426,848	431,402	430,140	425,590	419,965
Louisiana	475,164	474,938	475,885	473,553	465,434	454,825	442,533
Maine	116,004	116,384	115,813	114,126	112,726	111,064	110,283
Maryland	559,387	566,867	566,454	565,328	561,271	553,904	546,861
Massachusetts	685,162	691,504	694,516	699,665	703,756	703,202	704,251
Michigan	976,443	990,710	1,005,400	1,011,418	1,010,334	993,580	975,645

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	503,045	505,465	507,145	508,420	509,041	507,574	507,542
Mississippi	305,847	308,450	311,197	313,833	309,939	301,878	295,917
Missouri	589,939	591,724	595,014	597,032	594,345	587,595	578,691
Montana	95,084	96,806	98,645	99,772	100,073	99,966	99,302
Nebraska	182,980	184,521	186,555	188,493	190,999	191,916	192,718
Nevada	248,824	249,866	253,090	253,782	253,464	251,065	250,225
New Hampshire	123,586	125,349	126,377	127,427	129,162	128,723	127,516
New Jersey	770,272	780,439	788,209	794,391	797,635	792,759	786,743
New Mexico	204,791	207,808	210,086	210,152	207,757	203,527	200,362
New York	1,985,556	1,999,000	2,003,302	1,997,415	1,978,274	1,940,521	1,905,051
North Carolina	941,591	950,232	961,429	968,825	966,091	967,191	966,234
North Dakota	81,236	83,582	87,441	92,044	93,290	94,232	91,112
Ohio	1,103,158	1,109,511	1,113,010	1,111,766	1,103,659	1,088,191	1,075,485
Oklahoma	381,746	384,554	389,938	392,971	391,661	388,745	383,081
Oregon	359,062	362,531	366,194	366,135	366,523	365,371	365,578
Pennsylvania	1,263,088	1,269,277	1,265,858	1,253,265	1,232,175	1,206,557	1,187,598
Rhode Island	120,337	120,763	120,376	118,075	116,663	115,528	114,376
South Carolina	477,606	481,259	485,037	484,374	480,047	473,993	468,536
South Dakota	81,845	82,851	84,015	84,664	84,904	84,585	84,605
Tennessee	607,665	614,831	627,051	630,451	629,044	624,040	617,867
Texas	2,583,963	2,628,905	2,678,577	2,717,025	2,750,113	2,767,496	2,767,722
Utah	318,444	321,461	327,274	333,859	335,310	339,370	343,283
Vermont	65,244	66,154	66,563	67,385	67,932	68,160	67,743
Virginia	804,674	813,756	820,152	825,017	824,224	818,193	812,207
Washington	650,546	659,963	664,983	665,408	666,192	662,656	661,194
West Virginia	169,432	171,014	172,069	172,352	170,672	165,711	161,635

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	549,958	553,004	558,339	563,092	565,759	565,271	561,861
Wyoming	56,354	56,521	58,191	59,107	57,871	56,683	55,188
Puerto Rico	375,882	374,648	372,223	368,701	360,088	347,616	335,328

Science and Engineering Indicators 2018

State Indicators

S-17 Associate's Degrees in Technology Conferred per 1,000 Individuals 18–24 Years Old

Description

This indicator represents the extent to which a state provides associate's-level training in technology fields, controlling for the size of its college-age population. The cohort 18–24 years old was chosen to approximate the age range of most students who are pursuing an associate's degree.

Educational attainment in a technology field provides the advanced skills and technical expertise needed for a competitive workforce. A skilled workforce is important for a region's innovative capacity, productivity, and technological growth.

The National Center for Education Statistics counts the number of associate's degrees awarded in technology fields. Technology fields include science technologies and engineering technologies. Instructional programs in these fields prepare individuals to apply basic S&E principles and technical skills in support of scientific research and development and engineering and related projects. Technology fields do not include medical fields or technologies. Associate's degrees are awarded at both 2-year and 4-year institutions in the United States, and the data include degrees from both public and private institutions. These values are reported by the state in which the school is located.

Estimates of the population aged 18–24 are provided by the U.S. Census Bureau based on the 2000 and 2010 Decennial Censuses and are reported by the state of residence. Each year, the Census Bureau utilizes current data on births, deaths, and migration to calculate population change since the most recent decennial census and produces time series of estimates of population. Because these are estimates, small differences in the indicator value between states or across time generally are not meaningful. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

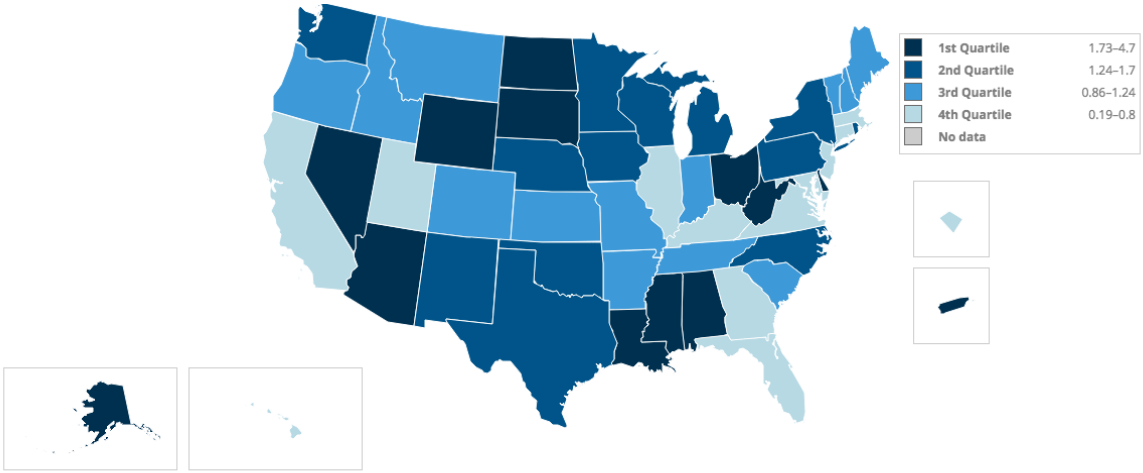
Because students may move across state lines after receiving their associate's degree, this indicator does not necessarily predict the qualifications of a state's future technical workforce.

Data sources: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program.

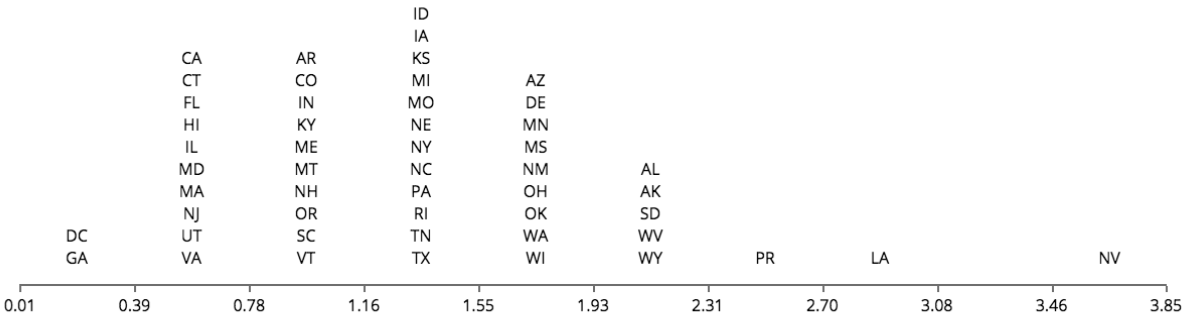
State Indicators

S-17 Associate's Degrees in Technology Conferred per 1,000 Individuals 18–24 Years Old

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

Associate's Degrees in Technology Conferred per 1,000 Individuals 18–24 Years Old

(Degrees)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	1.50	1.44	1.35	1.39	1.29	1.14	1.05	1.07	1.11	1.15
Alabama	1.05	0.96	0.80	0.95	0.69	0.62	0.51	0.55	0.55	0.57
Alaska	1.73	2.02	1.50	1.51	1.54	1.48	1.52	1.48	1.78	1.64
Arizona	1.93	1.89	1.65	1.25	1.49	1.49	1.68	1.85	1.87	1.96
Arkansas	0.74	0.80	0.77	0.73	0.77	0.62	0.63	0.55	0.72	0.82
California	1.21	1.10	1.14	1.07	0.81	0.41	0.30	0.34	0.40	0.41
Colorado	1.11	0.88	0.85	0.98	1.02	0.97	0.85	0.70	0.77	0.84
Connecticut	1.21	1.11	0.92	1.04	0.97	0.70	0.61	0.62	0.60	0.77
Delaware	2.11	2.01	1.81	1.96	1.68	1.59	1.19	1.25	1.22	1.28
District of Columbia	0.29	0.14	0.08	0.11	0.12	0.03	0.14	0.08	0.09	0.05
Florida	1.23	1.24	1.04	1.18	1.04	0.86	0.77	0.77	1.25	1.42
Georgia	0.24	0.26	0.26	0.26	0.19	0.18	0.21	0.25	0.27	0.34
Hawaii	2.66	2.79	2.99	4.89	3.36	2.45	2.05	1.86	2.83	2.48
Idaho	1.82	1.77	1.32	1.32	1.26	1.14	0.99	1.07	1.05	1.11
Illinois	1.02	1.00	0.95	0.99	0.93	0.86	0.73	0.68	0.66	0.63
Indiana	2.69	2.19	2.23	2.54	2.37	2.43	2.30	2.18	2.02	1.80
Iowa	1.60	1.53	1.93	1.91	1.75	1.69	1.41	1.47	1.47	1.43
Kansas	0.71	0.74	0.49	0.68	0.69	0.61	0.62	0.65	0.68	0.66
Kentucky	1.26	1.39	1.18	1.16	1.10	0.97	1.14	1.15	1.11	1.12
Louisiana	1.27	1.23	1.14	1.44	1.35	1.16	0.98	1.06	1.23	1.42
Maine	1.43	1.27	1.49	1.74	1.50	1.77	1.95	1.67	1.41	1.73
Maryland	0.52	0.46	0.45	0.58	0.53	0.71	0.58	0.69	0.74	0.78
Massachusetts	1.61	1.68	1.60	1.60	1.75	1.47	1.30	1.12	1.07	1.16

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	1.82	1.73	1.62	2.00	1.85	1.64	1.70	1.81	1.92	1.93
Minnesota	1.71	1.69	1.68	1.47	1.71	1.49	1.27	1.25	1.73	1.83
Mississippi	1.11	1.03	0.90	0.97	0.87	0.73	0.86	0.63	0.78	0.72
Missouri	1.85	1.82	1.75	1.87	1.43	1.22	1.06	0.99	1.01	1.23
Montana	1.40	1.11	1.02	0.96	0.93	0.73	0.75	0.51	0.75	0.76
Nebraska	2.11	2.03	2.05	2.40	2.18	1.92	2.09	1.97	2.02	2.14
Nevada	0.79	0.97	0.73	0.63	0.64	0.65	0.55	1.07	0.92	1.15
New Hampshire	1.67	1.25	1.50	1.69	1.50	1.36	1.22	1.21	1.41	1.39
New Jersey	0.61	0.58	0.57	0.60	0.60	0.64	0.78	0.77	0.78	0.72
New Mexico	2.30	2.35	1.51	1.51	1.66	1.32	1.18	1.13	1.01	1.16
New York	1.59	1.73	1.73	1.46	1.28	1.22	1.13	1.19	1.17	1.03
North Carolina	1.21	1.23	1.09	1.19	1.23	1.15	0.96	1.03	1.07	1.09
North Dakota	3.15	3.41	3.02	3.38	3.41	3.21	3.65	3.85	3.45	4.27
Ohio	2.13	1.97	1.93	2.14	2.15	1.90	1.93	2.02	2.10	2.06
Oklahoma	0.74	0.97	1.01	1.20	1.12	1.12	1.28	1.25	1.19	1.49
Oregon	2.39	1.64	1.58	2.14	1.61	1.26	0.89	0.94	0.74	0.84
Pennsylvania	2.49	2.36	2.28	2.44	2.09	1.92	1.69	1.67	1.77	1.67
Rhode Island	3.49	3.96	3.72	3.62	3.14	2.71	2.89	2.97	2.64	2.73
South Carolina	1.14	1.08	1.07	0.97	0.94	0.94	0.84	0.71	0.74	0.78
South Dakota	1.95	1.76	1.75	1.91	1.73	1.70	1.76	2.17	1.81	1.88
Tennessee	1.81	1.69	1.38	1.46	1.41	1.35	1.35	1.15	1.10	1.29
Texas	1.59	1.66	1.27	1.23	1.31	1.15	1.01	1.09	1.11	1.04
Utah	0.93	0.94	0.85	0.90	0.79	0.67	0.65	0.71	0.65	0.93
Vermont	2.48	2.38	2.89	2.44	2.47	2.25	1.66	1.84	1.24	1.35
Virginia	2.22	1.76	1.74	1.91	1.66	1.54	1.44	1.35	1.15	1.19
Washington	1.83	1.81	1.25	1.35	1.58	1.34	1.02	1.24	1.00	1.48

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	2.19	2.28	2.08	2.44	2.08	2.01	1.59	1.94	1.56	1.60
Wisconsin	2.10	2.01	2.23	1.77	1.89	1.84	1.63	1.62	1.69	2.06
Wyoming	1.10	1.33	0.91	1.15	1.51	1.50	0.97	1.48	1.23	1.36
Puerto Rico	1.86	1.48	1.42	1.18	1.34	1.53	1.56	1.72	1.75	1.79

Note(s):
The national associate's technology degrees total for the United States includes U.S. territories; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (various years). Data on degrees conferred prior to 2016 were retrieved from the National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR); data for 2016 are from the NCES IPEDS Data System, accessed 2 November, 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

Recommended Citation: National Science Board. 2018. “Associate's Degrees in Technology Conferred per 1,000 Individuals 18–24 Years Old.” Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/technology-associates-degrees-per-1000-18-24-year-olds

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Associate's Degrees in Technology Conferred per 1,000 Individuals 18–24 Years Old

(Degrees)

State	2010	2011	2012	2013	2014	2015	2016
United States	1.19	1.30	1.38	1.28	1.20	1.22	1.15
Alabama	0.86	1.18	1.33	1.81	1.88	2.20	2.14
Alaska	2.05	2.19	1.69	1.72	2.07	2.05	2.17
Arizona	1.64	1.96	2.24	2.15	1.95	2.08	1.83
Arkansas	0.92	1.27	1.13	0.87	0.90	0.90	0.92
California	0.48	0.49	0.66	0.65	0.62	0.55	0.42
Colorado	0.89	0.95	1.13	1.24	1.07	1.18	0.86
Connecticut	0.61	0.62	0.58	0.65	0.73	0.63	0.74
Delaware	1.66	1.57	1.52	1.70	1.93	1.82	1.75
District of Columbia	0.01	0.04	0.04	0.21	0.19	0.22	0.19
Florida	1.15	0.99	1.00	0.87	0.59	0.59	0.43
Georgia	0.32	0.34	0.32	0.32	0.31	0.34	0.29
Hawaii	1.87	2.27	2.02	1.69	0.91	0.53	0.60
Idaho	1.06	1.32	1.32	1.59	1.40	1.23	1.20
Illinois	0.67	0.76	0.77	0.65	0.66	0.74	0.64
Indiana	1.72	1.78	1.66	1.49	1.26	1.29	1.10
Iowa	1.44	1.67	1.77	1.54	1.77	1.56	1.41
Kansas	0.90	1.02	1.23	1.09	1.33	1.53	1.21
Kentucky	1.13	1.36	1.34	1.03	0.90	0.93	0.80
Louisiana	1.53	1.74	1.98	2.02	2.14	2.75	2.95
Maine	1.48	1.44	1.59	1.30	1.01	1.22	1.12
Maryland	0.82	0.90	0.84	0.88	0.85	0.84	0.68
Massachusetts	1.06	1.05	1.16	1.06	1.03	0.81	0.66

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	1.94	2.11	2.21	1.96	1.62	1.59	1.54
Minnesota	1.68	2.18	2.18	1.91	1.72	1.93	1.70
Mississippi	1.07	0.93	1.10	1.24	1.47	1.59	1.73
Missouri	1.37	1.50	1.61	1.45	1.27	1.32	1.24
Montana	0.93	1.75	2.07	1.55	1.32	1.53	1.11
Nebraska	2.03	1.87	1.85	2.08	1.81	1.87	1.53
Nevada	1.24	1.47	2.18	2.10	2.62	3.34	3.64
New Hampshire	1.23	1.22	1.21	1.12	1.08	0.92	0.98
New Jersey	0.77	0.84	0.84	0.85	0.78	0.77	0.76
New Mexico	1.13	1.40	1.63	1.83	1.59	1.54	1.68
New York	1.14	1.31	1.32	1.36	1.31	1.38	1.41
North Carolina	1.28	1.51	1.55	1.43	1.32	1.28	1.30
North Dakota	5.71	4.86	4.20	4.16	3.98	4.52	4.70
Ohio	2.24	2.38	2.57	2.22	1.90	1.86	1.80
Oklahoma	1.62	1.69	1.54	1.85	1.59	1.84	1.66
Oregon	0.99	1.28	1.59	1.48	1.23	1.31	1.00
Pennsylvania	1.71	1.81	1.72	1.55	1.53	1.38	1.24
Rhode Island	2.93	2.68	2.36	1.87	1.87	1.77	1.38
South Carolina	0.90	1.02	0.98	1.05	0.99	1.08	0.98
South Dakota	1.72	2.82	2.68	2.20	2.60	2.12	2.12
Tennessee	1.50	1.78	1.89	1.64	1.43	1.33	1.23
Texas	1.19	1.26	1.29	1.23	1.19	1.31	1.46
Utah	0.75	0.73	0.82	0.67	0.73	0.76	0.59
Vermont	1.26	1.15	1.04	1.04	0.97	0.69	1.00
Virginia	1.24	1.37	1.33	1.14	0.98	0.88	0.61
Washington	1.31	1.71	2.03	1.70	1.86	1.64	1.66

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	1.49	1.96	1.96	1.68	1.49	1.96	1.99
Wisconsin	2.11	2.63	2.56	2.07	1.94	1.93	1.63
Wyoming	1.88	1.86	2.34	1.96	2.44	2.33	2.16
Puerto Rico	2.08	2.03	3.19	2.12	2.30	2.58	2.34

Note(s):
The national associate's technology degrees total for the United States includes U.S. territories; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (various years). Data on degrees conferred prior to 2016 were retrieved from the National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR); data for 2016 are from the NCES IPEDS Data System, accessed 2 November, 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Technology associate's degrees

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	47,951	46,129	41,733	42,011	43,829	40,524	39,232	39,716	37,768	39,094
Alabama	4,387	4,691	2,621	2,575	3,651	3,439	3,109	3,000	416	439
Alaska	23	23	25	58	54	69	53	71	59	98
Arizona	1,062	891	963	768	748	574	643	978	941	1,092
Arkansas	486	258	121	113	99	97	112	136	201	178
California	3,373	2,528	2,862	2,863	2,885	3,124	3,250	3,664	3,573	3,879
Colorado	1,279	970	724	663	677	645	714	509	480	471
Connecticut	725	591	608	574	545	438	367	326	352	357
Delaware	202	196	199	199	184	164	164	127	142	132
District of Columbia	37	35	24	17	17	25	42	33	12	7
Florida	1,817	1,666	1,346	1,411	1,416	1,360	1,486	1,658	1,638	1,799
Georgia	545	551	464	406	406	379	321	325	330	301
Hawaii	121	47	108	87	96	112	90	132	234	257
Idaho	250	213	175	136	210	153	171	224	198	279
Illinois	1,393	1,591	1,796	1,685	1,461	1,464	1,309	1,499	1,424	1,435
Indiana	1,853	1,791	1,717	1,848	1,861	1,805	1,689	1,590	1,622	1,440
Iowa	1,097	851	782	693	573	430	367	373	435	474
Kansas	171	168	208	258	261	201	181	146	159	161
Kentucky	632	588	480	566	566	491	444	492	485	530
Louisiana	231	258	241	184	262	231	334	269	333	523
Maine	134	172	157	194	233	190	187	166	144	130
Maryland	409	325	337	384	314	313	288	296	289	253
Massachusetts	1,276	1,193	1,152	829	983	945	880	837	861	797
Michigan	2,317	2,305	2,237	2,576	3,815	1,790	1,725	1,843	1,782	1,806

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	318	483	558	515	520	1,357	918	661	692	653
Mississippi	396	432	306	287	249	203	191	213	234	252
Missouri	658	788	683	568	642	643	870	722	1,005	923
Montana	62	62	28	43	63	50	44	69	77	82
Nebraska	336	367	358	182	346	386	257	402	388	325
Nevada	55	31	58	41	48	57	36	56	55	95
New Hampshire	250	288	291	313	241	182	212	184	150	188
New Jersey	525	496	501	557	549	572	547	533	513	467
New Mexico	167	177	267	272	255	176	248	260	320	362
New York	3,335	3,245	3,061	3,055	3,014	2,974	2,736	2,675	2,671	2,809
North Carolina	1,153	1,191	1,161	1,153	1,281	1,233	1,110	1,211	1,097	996
North Dakota	315	235	160	218	107	170	190	185	233	232
Ohio	2,901	2,630	2,529	2,749	2,578	2,370	2,466	2,355	2,121	2,234
Oklahoma	891	729	297	598	478	394	256	256	264	283
Oregon	771	701	575	540	621	542	427	394	542	483
Pennsylvania	3,173	3,319	3,051	3,140	3,128	2,526	2,361	2,093	2,193	2,705
Rhode Island	436	484	504	472	412	373	378	355	422	343
South Carolina	732	810	680	487	452	522	536	529	580	467
South Dakota	8	25	8	13	9	10	149	95	76	77
Tennessee	693	1,376	844	915	888	691	793	747	714	789
Texas	2,769	2,570	2,297	2,482	2,307	2,257	2,341	2,676	2,910	3,042
Utah	376	316	287	277	263	351	292	279	270	281
Vermont	193	182	223	182	162	135	133	111	113	136
Virginia	722	905	981	948	991	1,063	1,021	1,049	1,163	1,185
Washington	588	470	561	753	703	846	860	880	866	861
West Virginia	563	337	384	359	457	375	261	335	352	339

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	1,313	1,178	1,255	1,358	1,423	1,321	1,361	1,306	1,329	1,344
Wyoming	69	56	67	69	45	33	46	58	50	50
Puerto Rico	358	339	401	375	274	269	263	327	248	244

Science and Engineering Indicators 2018

State Indicators

Technology associate's degrees

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	41,694	41,042	38,990	40,780	38,446	34,089	31,545	32,307	33,942	35,438
Alabama	465	428	361	434	316	286	232	256	261	270
Alaska	100	125	98	103	111	109	113	110	134	120
Arizona	1,004	1,013	904	699	851	867	996	1,121	1,165	1,232
Arkansas	194	215	209	200	212	170	173	152	202	231
California	4,104	3,828	4,063	3,857	2,959	1,522	1,122	1,256	1,511	1,573
Colorado	480	397	395	455	481	457	406	333	373	409
Connecticut	330	310	262	305	289	213	189	195	193	250
Delaware	160	158	146	161	139	133	101	109	108	115
District of Columbia	21	10	6	8	9	2	11	6	7	4
Florida	1,645	1,745	1,511	1,789	1,644	1,394	1,279	1,296	2,140	2,461
Georgia	205	225	232	233	175	161	188	235	257	333
Hawaii	309	337	373	619	432	319	270	238	364	320
Idaho	254	255	193	199	192	174	152	165	163	173
Illinois	1,239	1,229	1,172	1,230	1,169	1,069	910	850	825	786
Indiana	1,662	1,374	1,411	1,623	1,523	1,555	1,470	1,387	1,303	1,170
Iowa	480	465	593	596	551	531	440	452	451	439
Kansas	196	209	141	199	203	180	184	188	199	190
Kentucky	509	571	489	482	457	402	461	469	453	460
Louisiana	606	598	562	720	682	580	450	494	577	672
Maine	149	136	164	197	173	206	229	194	165	203
Maryland	236	218	218	288	270	365	305	369	404	428
Massachusetts	936	1,002	963	980	1,083	918	827	725	708	783
Michigan	1,707	1,650	1,573	1,963	1,827	1,612	1,663	1,755	1,861	1,873

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	811	824	834	746	877	770	655	643	887	929
Mississippi	346	325	287	310	276	230	263	192	237	220
Missouri	998	1,004	988	1,072	832	716	620	575	592	721
Montana	121	99	94	92	91	72	75	49	73	73
Nebraska	370	363	374	446	410	364	394	365	373	392
Nevada	144	185	142	127	136	144	126	255	225	283
New Hampshire	173	135	167	193	176	163	148	147	173	172
New Jersey	414	401	400	422	429	458	566	570	586	548
New Mexico	409	434	288	298	335	268	239	229	204	234
New York	2,807	3,113	3,138	2,685	2,365	2,257	2,112	2,262	2,269	2,030
North Carolina	989	1,016	904	975	1,035	977	839	912	975	1,013
North Dakota	231	261	238	276	290	274	314	319	284	346
Ohio	2,260	2,124	2,103	2,357	2,362	2,069	2,091	2,189	2,287	2,261
Oklahoma	265	358	381	458	431	430	489	475	451	565
Oregon	790	553	546	748	561	442	310	330	265	303
Pennsylvania	2,733	2,643	2,599	2,832	2,451	2,272	2,034	2,032	2,177	2,094
Rhode Island	374	436	419	411	362	313	338	348	313	328
South Carolina	470	451	451	414	411	410	371	321	340	366
South Dakota	152	140	142	159	147	144	149	179	149	154
Tennessee	998	952	784	830	813	781	771	669	651	776
Texas	3,509	3,781	2,961	2,931	3,182	2,806	2,494	2,694	2,799	2,644
Utah	296	310	285	299	259	219	208	226	208	298
Vermont	141	140	175	153	158	146	109	120	81	88
Virginia	1,521	1,243	1,250	1,401	1,254	1,179	1,122	1,065	908	951
Washington	1,033	1,064	753	827	973	832	643	780	644	963
West Virginia	379	397	364	426	361	343	267	324	259	269

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	1,099	1,073	1,216	984	1,066	1,042	922	903	938	1,139
Wyoming	55	69	49	64	86	85	55	84	70	78
Puerto Rico	800	639	609	500	557	623	621	669	672	678

Science and Engineering Indicators 2018

State Indicators

Technology associate's degrees

State	2010	2011	2012	2013	2014	2015	2016
United States	37,039	41,059	43,834	40,834	38,187	38,585	35,784
Alabama	413	567	644	879	899	1,031	985
Alaska	155	167	132	138	164	159	163
Arizona	1,041	1,268	1,484	1,439	1,313	1,397	1,227
Arkansas	264	366	327	253	259	258	259
California	1,887	1,965	2,632	2,618	2,466	2,148	1,628
Colorado	435	477	574	639	557	623	460
Connecticut	202	210	198	226	255	221	262
Delaware	151	145	141	156	172	158	150
District of Columbia	1	3	3	17	15	18	15
Florida	2,013	1,756	1,793	1,558	1,056	1,043	754
Georgia	313	335	321	324	316	348	289
Hawaii	245	301	270	228	122	70	77
Idaho	163	205	205	248	219	191	188
Illinois	831	955	962	817	826	916	777
Indiana	1,118	1,169	1,106	1,000	850	863	728
Iowa	443	521	561	495	574	503	453
Kansas	260	297	363	326	399	458	359
Kentucky	468	573	571	443	388	394	334
Louisiana	729	825	941	955	995	1,253	1,305
Maine	172	168	184	148	114	136	123
Maryland	459	508	474	500	476	466	373
Massachusetts	723	727	809	741	725	568	468
Michigan	1,894	2,092	2,224	1,980	1,638	1,575	1,503

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	845	1,104	1,105	973	875	980	865
Mississippi	326	287	341	388	457	479	511
Missouri	807	888	959	863	752	778	718
Montana	88	169	204	155	132	153	110
Nebraska	372	345	346	392	346	358	295
Nevada	309	368	551	533	664	838	912
New Hampshire	152	153	153	143	139	118	125
New Jersey	593	655	662	679	626	612	600
New Mexico	232	291	342	385	331	313	336
New York	2,271	2,619	2,651	2,724	2,586	2,679	2,688
North Carolina	1,202	1,431	1,489	1,382	1,278	1,242	1,254
North Dakota	464	406	367	383	371	426	428
Ohio	2,466	2,643	2,859	2,468	2,101	2,027	1,933
Oklahoma	617	651	601	726	623	716	635
Oregon	357	465	582	543	449	478	367
Pennsylvania	2,160	2,302	2,173	1,942	1,881	1,661	1,474
Rhode Island	352	324	284	221	218	204	158
South Carolina	429	490	473	508	473	511	458
South Dakota	141	234	225	186	221	179	179
Tennessee	913	1,094	1,183	1,031	902	829	759
Texas	3,071	3,308	3,455	3,330	3,261	3,619	4,046
Utah	239	236	269	224	244	259	201
Vermont	82	76	69	70	66	47	68
Virginia	997	1,118	1,092	940	805	721	497
Washington	849	1,128	1,349	1,132	1,239	1,090	1,098
West Virginia	253	336	337	289	254	324	321

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	1,161	1,455	1,427	1,166	1,097	1,093	918
Wyoming	106	105	136	116	141	132	119
Puerto Rico	780	761	1,188	783	827	897	783

Science and Engineering Indicators 2018

State Indicators

Individuals 18–24 years old

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	27,744,738	28,423,532	28,908,773	29,340,084	29,719,320	29,849,590	30,001,425	30,197,665	30,579,025	30,909,846
Alabama	442,244	447,963	450,657	456,549	457,934	458,170	459,114	462,996	470,431	476,884
Alaska	57,670	61,774	65,287	68,253	71,882	73,591	74,369	74,383	75,206	73,249
Arizona	519,627	536,018	549,407	559,859	571,196	580,341	591,986	605,860	621,451	629,438
Arkansas	263,749	268,131	272,203	275,122	275,779	274,439	273,882	275,325	278,835	281,953
California	3,391,356	3,488,933	3,557,190	3,608,183	3,661,991	3,684,405	3,700,882	3,742,151	3,812,579	3,882,345
Colorado	433,665	453,712	464,101	466,666	471,390	472,661	477,387	475,931	481,504	485,310
Connecticut	272,527	278,499	285,757	292,790	298,738	306,038	310,891	315,199	320,268	325,143
Delaware	75,953	78,530	80,679	82,204	82,812	83,750	84,759	86,897	88,587	89,792
District of Columbia	73,084	72,568	71,806	71,395	72,344	74,299	76,839	78,528	81,763	84,944
Florida	1,341,695	1,401,785	1,456,250	1,513,146	1,573,346	1,614,399	1,652,892	1,687,966	1,717,154	1,731,012
Georgia	844,819	866,190	877,530	883,347	904,353	898,133	915,634	928,910	948,921	967,705
Hawaii	116,069	120,970	124,630	126,618	128,434	130,135	131,489	127,842	128,537	128,942
Idaho	139,787	144,212	146,715	150,356	152,372	153,122	153,844	154,347	155,327	155,175
Illinois	1,216,712	1,230,513	1,233,528	1,241,064	1,253,340	1,243,356	1,238,706	1,241,440	1,245,766	1,249,006
Indiana	618,678	628,372	631,917	639,311	642,292	639,669	638,724	637,509	643,543	648,815
Iowa	299,309	303,271	306,683	311,990	315,079	313,294	312,319	307,599	307,267	306,811
Kansas	276,874	282,851	288,353	292,928	296,216	296,639	296,431	290,759	292,316	288,906
Kentucky	404,122	411,270	414,048	414,808	417,231	414,078	405,029	407,676	407,552	411,033
Louisiana	476,115	485,975	494,717	501,600	506,373	501,875	459,662	466,575	469,138	473,182
Maine	104,441	107,177	110,043	113,528	115,063	116,655	117,346	116,426	117,246	117,074
Maryland	454,223	470,318	484,638	498,098	508,100	517,295	525,903	535,532	543,624	552,217
Massachusetts	582,419	594,747	602,799	612,982	617,664	623,551	637,145	648,900	661,626	674,971
Michigan	936,873	955,459	968,580	983,181	987,400	982,064	975,541	967,382	970,359	972,787

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	473,390	486,444	496,503	508,666	513,913	515,385	517,679	512,542	512,238	508,202
Mississippi	312,494	316,243	317,256	318,421	318,565	313,339	306,076	304,284	304,997	304,758
Missouri	539,169	552,622	563,553	574,714	583,646	584,938	583,691	583,425	586,722	588,424
Montana	86,160	89,343	91,911	95,495	97,456	98,622	99,357	96,964	97,094	95,647
Nebraska	175,138	178,947	182,262	185,977	188,301	189,908	188,966	185,312	184,622	183,325
Nevada	182,316	190,232	195,507	202,535	211,757	220,418	229,614	237,590	244,687	246,657
New Hampshire	103,843	107,717	111,142	114,468	117,460	120,104	121,400	121,926	122,815	123,384
New Jersey	679,480	690,374	698,237	707,974	715,500	720,555	729,181	738,538	751,070	761,463
New Mexico	178,009	184,493	191,116	197,243	201,894	202,928	202,027	201,915	201,729	202,410
New York	1,770,901	1,802,422	1,817,402	1,837,040	1,847,979	1,855,760	1,869,014	1,898,728	1,936,825	1,968,102
North Carolina	814,559	824,717	831,246	822,476	841,493	852,278	876,910	883,733	910,643	930,168
North Dakota	73,369	76,459	78,829	81,755	85,049	85,272	85,992	82,958	82,307	81,007
Ohio	1,062,598	1,079,689	1,090,537	1,102,013	1,099,582	1,089,625	1,083,220	1,081,338	1,089,460	1,098,028
Oklahoma	358,278	369,614	377,519	382,018	386,493	383,690	381,715	379,930	378,846	379,849
Oregon	329,918	337,357	344,972	349,353	348,770	349,448	350,178	352,686	356,879	359,611
Pennsylvania	1,099,628	1,121,223	1,140,351	1,160,469	1,173,247	1,183,666	1,200,427	1,214,618	1,231,877	1,252,413
Rhode Island	107,167	109,990	112,756	113,403	115,173	115,595	116,788	117,090	118,410	120,362
South Carolina	411,181	418,111	422,972	426,375	435,193	436,657	440,769	451,135	462,550	472,254
South Dakota	78,009	79,716	81,213	83,126	84,773	84,665	84,428	82,444	82,232	81,791
Tennessee	552,574	563,268	567,742	569,833	575,572	577,652	572,909	584,262	589,192	601,552
Texas	2,213,745	2,283,119	2,340,371	2,386,950	2,420,595	2,434,329	2,463,849	2,477,138	2,511,528	2,548,560
Utah	319,748	328,513	333,724	333,377	328,927	326,725	322,408	320,017	319,576	319,374
Vermont	56,798	58,845	60,590	62,583	63,919	64,910	65,566	65,359	65,116	65,131
Virginia	685,504	706,828	719,251	735,315	753,770	767,898	781,520	787,086	792,590	799,881
Washington	563,285	586,456	602,467	613,184	617,717	622,059	628,998	629,091	642,409	652,077
West Virginia	173,008	174,409	174,600	174,922	173,667	170,930	168,204	166,625	166,170	168,023

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	522,855	534,453	545,215	557,344	563,471	565,538	564,587	558,563	555,711	553,763
Wyoming	50,139	51,810	53,946	55,739	56,968	56,693	56,592	56,595	56,979	57,436
Puerto Rico	429,464	430,880	428,065	423,338	417,141	408,044	398,586	389,640	384,751	379,500

Science and Engineering Indicators 2018

State Indicators

Individuals 18–24 years old

State	2010	2011	2012	2013	2014	2015	2016
United States	31,142,916	31,466,489	31,760,339	31,872,876	31,797,953	31,507,801	31,179,139
Alabama	479,993	481,675	483,985	484,912	478,688	468,855	459,616
Alaska	75,444	76,374	78,133	80,131	79,164	77,519	75,274
Arizona	636,064	648,466	661,741	667,771	672,301	671,833	672,268
Arkansas	285,562	289,012	290,119	290,019	288,759	285,507	281,738
California	3,934,016	3,975,732	4,015,379	4,013,829	3,987,645	3,923,647	3,848,787
Colorado	491,414	499,709	507,533	515,465	522,183	530,067	534,131
Connecticut	331,355	337,340	340,718	345,534	350,400	352,240	352,024
Delaware	91,057	92,170	92,920	91,718	89,344	86,989	85,584
District of Columbia	86,291	84,527	83,136	81,783	80,615	80,824	80,141
Florida	1,745,479	1,774,229	1,788,029	1,789,014	1,780,571	1,759,078	1,739,623
Georgia	975,587	992,510	1,013,408	1,012,603	1,014,071	1,011,112	1,005,386
Hawaii	131,324	132,577	133,686	134,563	133,899	132,282	128,771
Idaho	154,398	155,075	155,514	155,836	156,570	155,392	156,563
Illinois	1,247,611	1,250,030	1,255,592	1,258,145	1,250,294	1,234,068	1,214,511
Indiana	651,642	658,360	665,163	671,014	672,718	667,571	661,254
Iowa	306,720	311,956	316,088	321,082	323,807	323,354	322,097
Kansas	289,077	290,697	295,939	298,732	300,356	300,185	297,133
Kentucky	415,967	421,402	426,848	431,402	430,140	425,590	419,965
Louisiana	475,164	474,938	475,885	473,553	465,434	454,825	442,533
Maine	116,004	116,384	115,813	114,126	112,726	111,064	110,283
Maryland	559,387	566,867	566,454	565,328	561,271	553,904	546,861
Massachusetts	685,162	691,504	694,516	699,665	703,756	703,202	704,251
Michigan	976,443	990,710	1,005,400	1,011,418	1,010,334	993,580	975,645

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	503,045	505,465	507,145	508,420	509,041	507,574	507,542
Mississippi	305,847	308,450	311,197	313,833	309,939	301,878	295,917
Missouri	589,939	591,724	595,014	597,032	594,345	587,595	578,691
Montana	95,084	96,806	98,645	99,772	100,073	99,966	99,302
Nebraska	182,980	184,521	186,555	188,493	190,999	191,916	192,718
Nevada	248,824	249,866	253,090	253,782	253,464	251,065	250,225
New Hampshire	123,586	125,349	126,377	127,427	129,162	128,723	127,516
New Jersey	770,272	780,439	788,209	794,391	797,635	792,759	786,743
New Mexico	204,791	207,808	210,086	210,152	207,757	203,527	200,362
New York	1,985,556	1,999,000	2,003,302	1,997,415	1,978,274	1,940,521	1,905,051
North Carolina	941,591	950,232	961,429	968,825	966,091	967,191	966,234
North Dakota	81,236	83,582	87,441	92,044	93,290	94,232	91,112
Ohio	1,103,158	1,109,511	1,113,010	1,111,766	1,103,659	1,088,191	1,075,485
Oklahoma	381,746	384,554	389,938	392,971	391,661	388,745	383,081
Oregon	359,062	362,531	366,194	366,135	366,523	365,371	365,578
Pennsylvania	1,263,088	1,269,277	1,265,858	1,253,265	1,232,175	1,206,557	1,187,598
Rhode Island	120,337	120,763	120,376	118,075	116,663	115,528	114,376
South Carolina	477,606	481,259	485,037	484,374	480,047	473,993	468,536
South Dakota	81,845	82,851	84,015	84,664	84,904	84,585	84,605
Tennessee	607,665	614,831	627,051	630,451	629,044	624,040	617,867
Texas	2,583,963	2,628,905	2,678,577	2,717,025	2,750,113	2,767,496	2,767,722
Utah	318,444	321,461	327,274	333,859	335,310	339,370	343,283
Vermont	65,244	66,154	66,563	67,385	67,932	68,160	67,743
Virginia	804,674	813,756	820,152	825,017	824,224	818,193	812,207
Washington	650,546	659,963	664,983	665,408	666,192	662,656	661,194
West Virginia	169,432	171,014	172,069	172,352	170,672	165,711	161,635

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	549,958	553,004	558,339	563,092	565,759	565,271	561,861
Wyoming	56,354	56,521	58,191	59,107	57,871	56,683	55,188
Puerto Rico	375,882	374,648	372,223	368,701	360,088	347,616	335,328

Science and Engineering Indicators 2018

State Indicators

S-18 Bachelor's Degrees Conferred per 1,000 Individuals 18–24 Years Old

Description

This indicator represents the extent to which the 18–24-year-old cohort earned a bachelor's degree. The cohort 18–24 years old was chosen to approximate the age range of most students who are pursuing an undergraduate degree.

Higher educational attainment gives people greater opportunities to work in better-paying jobs than are generally available to those with less education. Earning a bachelor's degree also prepares them for advanced education. The number of bachelor's degrees awarded is an actual count provided by the National Center for Education Statistics and includes degrees from both public and private institutions.

Estimates of the population aged 18–24 are provided by the U.S. Census Bureau based on the 2000 and 2010 Decennial Censuses and are reported by the state of residence. Each year, the Census Bureau utilizes current data on births, deaths, and migration to calculate population change since the most recent decennial census and produces time series of estimates of population. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

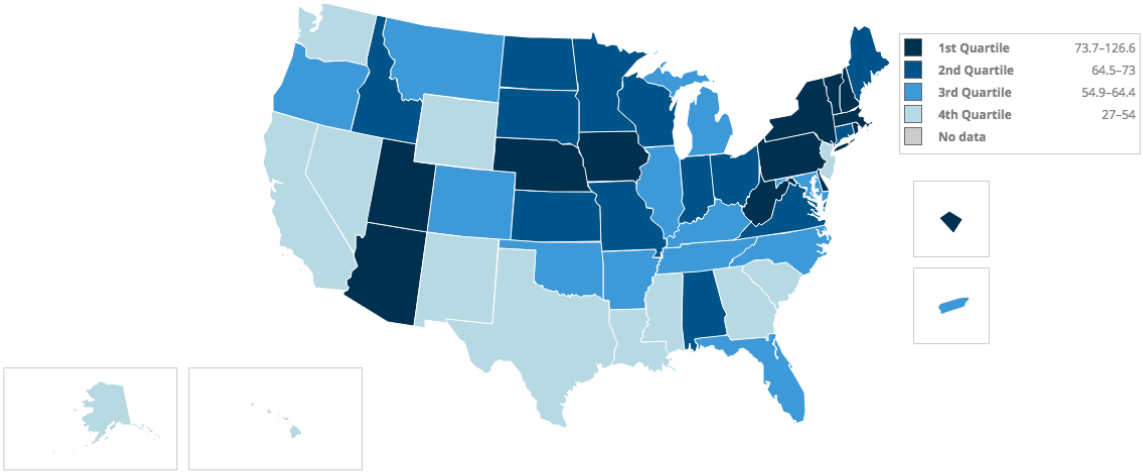
A high value for this indicator may suggest the successful provision of educational opportunity at this level. Student mobility after graduation is not accounted for, which may make this indicator less meaningful in predicting the qualifications of a state's future workforce. A state's value for this indicator may also be high when its higher education system draws a large percentage of out-of-state students, a situation that sometimes occurs in states with small resident populations and in the District of Columbia. Because these are estimates, small differences in the indicator value between states or across time generally are not meaningful. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

Data sources: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program.

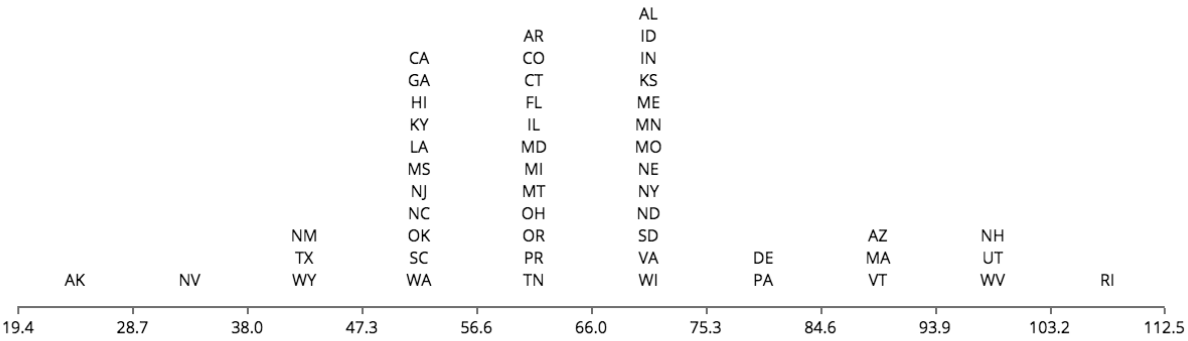
State Indicators

S-18 Bachelor's Degrees Conferred per 1,000 Individuals 18–24 Years Old

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

Bachelor's Degrees Conferred per 1,000 Individuals 18–24 Years Old

(Degrees)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	45.2	44.3	45.3	46.5	47.7	48.8	50.1	51.1	51.7	52.4
Alabama	48.1	46.3	45.0	44.8	46.6	47.0	47.7	47.2	49.6	50.6
Alaska	23.7	21.7	21.1	20.0	19.5	19.4	21.2	20.3	19.9	22.2
Arizona	49.0	47.8	48.7	50.3	56.1	60.8	65.5	70.7	71.7	75.1
Arkansas	35.7	35.9	37.0	38.5	39.1	40.8	41.4	41.7	41.5	42.7
California	34.9	34.4	35.9	36.7	37.8	38.8	39.7	39.9	40.7	40.2
Colorado	50.3	47.9	49.1	51.1	52.6	54.4	59.0	61.8	62.0	60.7
Connecticut	55.3	51.1	51.8	54.8	56.4	55.0	57.9	58.8	59.1	59.0
Delaware	60.8	56.9	60.7	62.3	61.2	62.3	63.6	58.6	59.9	60.8
District of Columbia	103.7	112.5	119.6	124.7	130.4	123.8	137.4	130.7	131.3	129.0
Florida	38.2	37.6	38.8	39.0	40.6	40.8	42.3	43.7	45.1	46.3
Georgia	34.6	33.2	34.2	36.2	40.0	39.5	39.6	40.2	41.1	41.8
Hawaii	43.0	39.4	38.4	38.9	41.8	39.6	42.7	43.1	44.3	43.5
Idaho	33.7	32.2	33.5	39.7	39.7	47.6	50.6	51.8	50.9	58.4
Illinois	45.3	45.5	46.7	48.0	47.5	51.4	54.9	56.4	55.9	55.6
Indiana	51.7	50.7	53.7	55.2	56.7	57.3	59.6	60.4	60.6	61.0
Iowa	62.6	61.5	63.2	64.2	64.0	66.3	68.6	72.8	79.0	85.5
Kansas	53.0	53.1	52.5	55.1	55.7	55.9	57.5	59.9	59.4	61.7
Kentucky	38.7	37.5	39.6	39.2	41.3	43.1	46.0	46.8	48.2	48.6
Louisiana	41.4	40.7	40.7	41.9	41.6	42.4	42.9	45.9	44.5	44.6
Maine	54.3	50.7	52.6	54.2	52.7	55.7	55.8	59.3	60.6	59.0
Maryland	48.6	48.9	48.1	49.3	49.2	50.2	50.7	49.9	49.9	50.5
Massachusetts	72.6	71.9	71.6	73.0	73.9	73.4	73.9	73.8	74.9	74.2

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	48.5	47.9	49.1	50.7	51.3	51.7	52.7	54.7	55.3	55.7
Minnesota	48.9	47.6	49.4	50.6	53.1	54.8	55.8	57.8	59.3	61.5
Mississippi	35.2	35.5	37.5	37.0	36.6	37.3	38.6	39.6	40.0	40.8
Missouri	55.7	54.5	56.9	57.9	58.2	58.7	60.3	61.3	61.0	65.2
Montana	58.9	56.1	57.4	54.9	55.1	52.5	51.5	53.8	53.5	54.9
Nebraska	61.4	60.3	58.4	59.3	60.7	63.2	64.3	66.5	66.9	68.6
Nevada	22.3	21.7	21.7	22.8	22.6	23.4	27.0	25.2	26.4	26.9
New Hampshire	74.9	67.3	65.2	66.1	67.3	67.5	66.1	68.1	68.9	72.0
New Jersey	39.6	39.0	40.6	41.8	42.7	44.4	44.2	44.3	44.8	45.5
New Mexico	34.9	32.5	30.7	32.8	32.5	32.8	33.5	34.8	35.2	35.3
New York	54.0	54.1	54.8	57.8	58.5	59.9	60.5	60.7	61.9	62.1
North Carolina	43.3	42.2	43.4	45.3	46.1	46.1	45.6	46.7	47.7	48.2
North Dakota	66.5	61.3	61.0	59.7	59.2	60.5	63.8	66.8	67.2	69.2
Ohio	47.0	47.3	48.5	50.0	51.3	52.5	54.2	54.7	54.6	54.8
Oklahoma	43.5	43.1	43.0	42.8	45.1	47.6	49.5	49.7	50.7	51.7
Oregon	43.7	41.2	41.9	44.7	47.8	48.3	50.3	50.8	50.2	49.8
Pennsylvania	60.3	59.4	60.5	62.4	64.2	65.7	66.5	66.7	66.7	67.6
Rhode Island	80.2	77.0	80.2	82.8	83.2	84.9	86.3	87.2	88.7	87.7
South Carolina	38.7	38.7	39.6	41.4	40.8	42.7	43.5	43.2	43.8	44.6
South Dakota	61.0	55.3	55.8	54.5	58.4	58.6	59.3	62.3	62.0	63.1
Tennessee	41.5	40.5	41.4	42.8	43.4	45.1	46.0	46.7	46.9	48.9
Texas	34.3	33.3	34.0	34.6	35.3	36.5	37.4	38.7	39.1	40.1
Utah	52.5	51.1	53.6	56.2	59.2	62.1	62.6	63.8	63.9	65.3
Vermont	85.1	79.8	77.1	72.6	72.7	75.4	76.0	78.0	81.6	88.9
Virginia	47.9	46.6	45.8	47.1	47.3	48.2	49.7	50.6	52.2	53.2
Washington	42.5	39.9	40.5	42.1	44.0	45.3	45.3	46.3	45.9	46.1

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	49.4	49.9	51.7	53.4	52.4	56.0	59.6	66.6	69.1	67.6
Wisconsin	52.7	53.3	52.8	53.2	56.4	55.1	55.7	58.4	59.7	60.7
Wyoming	35.8	32.4	30.7	31.2	29.3	29.9	31.7	29.9	31.6	30.7
Puerto Rico	37.6	36.6	38.5	39.5	41.6	40.9	43.1	43.9	43.6	44.8

Note(s):
The national bachelor's degrees total for the United States includes U.S. territories; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (various years). Data on degrees conferred prior to 2016 were retrieved from the National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR); data for 2016 are from the NCES IPEDS Data System, accessed 2 November, 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Science and Engineering Indicators 2018

State Indicators

Bachelor's Degrees Conferred per 1,000 Individuals 18–24 Years Old

(Degrees)

State	2010	2011	2012	2013	2014	2015	2016
United States	53.6	55.1	57.0	58.4	59.5	60.8	62.3
Alabama	53.3	56.3	56.4	61.3	61.3	63.8	67.4
Alaska	21.5	23.2	22.4	23.6	25.7	24.9	27.0
Arizona	80.5	88.0	103.7	106.4	92.7	88.0	84.7
Arkansas	43.9	45.9	48.9	49.4	53.6	55.6	56.9
California	40.6	41.7	42.3	44.1	47.0	48.4	50.5
Colorado	59.4	60.4	62.1	64.5	65.9	65.0	64.4
Connecticut	59.4	59.2	61.5	62.8	62.6	64.1	64.5
Delaware	60.3	63.6	63.2	67.8	70.8	79.1	81.7
District of Columbia	117.2	114.6	125.1	127.9	126.0	126.1	126.6
Florida	47.8	48.6	50.8	52.7	54.4	57.1	58.5
Georgia	43.5	45.4	45.6	47.0	48.1	49.3	50.5
Hawaii	40.1	42.4	44.2	45.8	49.0	50.0	51.2
Idaho	61.3	59.1	62.9	66.3	68.4	70.1	73.0
Illinois	56.8	57.3	57.8	60.5	60.0	60.3	62.4
Indiana	64.0	66.1	68.5	69.4	69.8	72.0	72.0
Iowa	98.9	116.3	128.7	129.1	123.5	121.2	115.6
Kansas	62.4	65.5	67.6	69.1	68.0	67.2	68.6
Kentucky	49.0	50.0	50.4	50.7	51.7	53.1	55.3
Louisiana	43.3	44.8	46.1	47.0	48.4	48.9	51.1
Maine	61.1	63.1	66.3	64.3	66.3	66.8	69.4
Maryland	52.0	53.4	56.4	58.0	59.2	61.9	63.9
Massachusetts	76.2	77.7	80.0	81.6	83.4	84.8	86.7

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	57.0	56.4	57.3	57.7	58.3	60.4	61.8
Minnesota	63.5	66.0	68.9	71.4	71.6	72.3	72.1
Mississippi	42.4	42.9	43.4	44.9	46.0	47.4	49.7
Missouri	67.3	69.3	72.2	67.2	68.7	70.1	71.7
Montana	55.0	56.9	54.6	56.6	59.6	61.6	60.5
Nebraska	68.8	73.2	76.4	74.9	75.8	73.4	74.2
Nevada	27.4	28.5	28.9	30.2	31.9	33.9	34.5
New Hampshire	76.0	75.6	73.5	76.7	78.5	91.9	98.2
New Jersey	46.8	47.5	50.5	50.7	51.4	53.0	54.0
New Mexico	34.7	35.8	36.1	37.9	40.5	41.2	44.3
New York	62.9	64.3	65.2	67.0	68.8	71.0	73.7
North Carolina	49.7	51.2	52.8	53.4	54.4	54.6	55.4
North Dakota	70.5	67.9	64.9	65.0	66.1	66.8	69.1
Ohio	55.5	57.8	60.1	59.7	62.1	64.2	65.3
Oklahoma	51.2	50.7	50.9	51.0	52.7	53.3	54.9
Oregon	52.6	53.9	57.4	60.3	62.0	62.0	61.7
Pennsylvania	69.0	69.5	71.2	72.9	75.3	77.1	77.8
Rhode Island	90.6	91.7	93.6	96.5	100.6	104.6	107.9
South Carolina	45.9	47.9	47.4	49.6	50.7	52.4	53.6
South Dakota	62.5	64.2	65.4	67.9	68.0	67.4	72.3
Tennessee	49.1	50.5	51.5	53.6	54.3	54.9	57.1
Texas	40.5	40.9	41.6	42.4	43.2	44.1	45.6
Utah	67.2	74.7	80.4	84.9	88.1	94.0	98.9
Vermont	90.2	92.2	94.4	92.1	91.6	90.4	91.8
Virginia	55.0	58.9	63.3	65.1	66.8	68.6	71.3
Washington	46.9	47.4	48.6	49.0	48.7	50.2	50.6

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	71.0	75.9	81.7	83.3	91.0	96.5	102.2
Wisconsin	62.0	63.8	64.5	65.6	66.0	66.4	66.7
Wyoming	31.8	32.9	35.5	34.8	34.8	35.7	39.2
Puerto Rico	46.6	47.0	52.7	54.5	56.5	58.9	61.8

Note(s):
The national bachelor's degrees total for the United States includes U.S. territories; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (various years). Data on degrees conferred prior to 2016 were retrieved from the National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR); data for 2016 are from the NCES IPEDS Data System, accessed 2 November, 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Science and Engineering Indicators 2018

State Indicators

Bachelor's degrees

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	1,062,151	1,107,997	1,150,072	1,179,278	1,183,141	1,174,436	1,179,466	1,187,567	1,198,938	1,217,869
Alabama	17,059	18,581	19,628	20,525	21,150	19,924	20,108	20,647	20,335	20,447
Alaska	1,043	1,148	1,114	1,260	1,396	1,526	1,493	1,473	1,479	1,369
Arizona	14,172	17,946	14,531	15,809	17,080	18,533	18,824	20,032	21,767	22,367
Arkansas	7,475	7,729	8,133	8,449	8,549	8,623	9,099	9,214	9,222	9,248
California	98,069	100,381	107,364	110,876	111,018	108,215	108,691	108,880	109,751	112,978
Colorado	17,344	17,651	18,641	19,808	19,698	20,226	20,051	20,234	20,734	21,135
Connecticut	14,333	14,836	15,210	15,116	14,152	14,158	13,620	13,684	13,750	13,975
Delaware	3,462	3,922	4,077	4,067	4,138	4,421	4,330	4,295	4,383	4,516
District of Columbia	7,449	7,807	8,206	8,095	7,698	7,661	7,784	7,869	8,019	7,627
Florida	35,493	38,926	41,086	43,202	44,069	44,916	46,308	47,520	48,432	49,104
Georgia	21,402	22,049	23,493	25,390	26,283	26,312	27,446	27,519	29,408	28,911
Hawaii	3,720	3,711	3,821	4,186	4,314	4,500	4,696	4,702	4,588	4,708
Idaho	3,169	3,136	3,529	3,923	4,203	4,235	4,489	4,509	4,602	4,662
Illinois	49,757	50,508	53,263	51,482	52,493	52,436	51,879	51,868	52,196	53,185
Indiana	27,625	28,886	30,770	31,453	30,769	30,253	30,571	30,477	30,833	30,764
Iowa	16,129	16,996	17,162	17,598	17,846	17,421	17,680	17,923	17,543	18,253
Kansas	12,521	13,157	13,839	14,453	14,787	14,835	14,873	14,739	14,182	14,435
Kentucky	12,225	12,973	13,861	14,396	14,629	14,570	14,680	14,674	14,977	15,542
Louisiana	15,905	16,309	16,985	17,825	17,787	17,920	17,985	17,506	18,532	18,719
Maine	4,944	5,227	5,778	5,976	5,953	5,893	5,619	5,565	5,442	5,581
Maryland	19,502	20,185	21,359	21,494	21,657	20,824	20,873	21,391	21,720	21,841
Massachusetts	43,559	44,487	45,051	42,747	42,351	40,279	40,771	40,429	40,727	41,595
Michigan	42,428	44,213	44,789	45,711	44,925	44,317	44,371	44,225	44,152	43,965

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	22,851	23,585	24,430	24,737	24,558	23,872	23,072	22,594	22,999	23,135
Mississippi	8,808	9,106	10,054	10,673	10,524	10,335	9,983	10,252	10,290	10,750
Missouri	24,612	24,902	26,531	26,929	27,481	27,918	27,253	28,049	28,864	28,989
Montana	3,862	3,872	4,161	4,194	4,357	4,354	4,622	4,752	4,932	4,955
Nebraska	8,677	8,945	9,417	9,522	10,087	10,105	9,889	9,871	10,071	10,024
Nevada	2,235	2,373	2,694	3,029	3,276	3,365	3,417	3,669	3,852	3,878
New Hampshire	6,745	7,128	7,430	7,524	7,546	7,395	7,657	7,581	7,600	7,638
New Jersey	22,859	23,624	24,207	25,185	25,234	24,627	24,572	24,845	25,056	25,579
New Mexico	5,010	5,233	5,481	5,654	6,020	6,032	6,050	6,090	6,230	6,147
New York	90,195	93,788	96,720	98,357	94,409	94,762	96,445	96,412	93,599	93,623
North Carolina	27,288	28,795	30,826	31,852	32,730	32,321	32,761	34,202	34,129	34,629
North Dakota	4,202	4,487	4,755	4,555	4,558	4,440	4,484	4,627	4,588	4,730
Ohio	47,144	48,932	50,691	51,651	51,128	49,755	48,865	49,163	49,217	49,868
Oklahoma	13,601	14,067	14,542	15,002	15,734	15,307	14,422	15,123	15,887	18,048
Oregon	12,586	12,963	13,375	13,139	13,272	12,917	13,236	13,290	13,652	13,868
Pennsylvania	60,572	62,270	64,348	65,125	64,375	63,072	61,807	62,482	63,519	64,026
Rhode Island	8,789	9,153	9,252	9,396	9,264	9,094	8,788	8,409	8,323	8,566
South Carolina	13,215	14,250	14,216	15,199	15,199	15,060	14,998	15,177	15,034	15,616
South Dakota	3,760	3,792	4,212	4,387	4,286	4,412	4,603	4,390	4,476	4,430
Tennessee	17,577	18,063	19,139	20,371	19,992	20,463	20,608	21,147	21,538	21,988
Texas	60,472	65,112	64,313	67,598	69,298	70,048	70,704	71,172	71,771	73,576
Utah	10,907	11,340	12,016	12,728	14,018	14,262	15,275	15,606	16,405	17,295
Vermont	4,517	4,553	4,521	4,707	4,671	4,591	4,495	4,309	4,455	4,763
Virginia	27,119	28,767	30,320	30,858	30,712	30,472	30,893	30,207	30,350	30,357
Washington	18,320	19,156	19,694	20,784	21,272	21,773	22,492	22,846	23,403	23,004
West Virginia	7,414	7,533	8,191	8,606	9,045	8,656	8,582	8,172	8,290	8,486

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	25,888	26,343	27,542	27,709	27,484	26,943	26,934	27,405	27,379	27,544
Wyoming	1,646	1,641	1,781	1,856	1,794	1,777	1,641	1,652	1,706	1,784
Puerto Rico	12,173	13,122	13,186	13,756	13,492	13,820	14,110	14,107	13,932	15,031

Science and Engineering Indicators 2018

State Indicators

Bachelor's degrees

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	1,254,618	1,260,308	1,308,970	1,365,694	1,417,421	1,456,401	1,502,922	1,541,704	1,580,413	1,619,028
Alabama	21,253	20,729	20,293	20,443	21,338	21,528	21,889	21,863	23,326	24,135
Alaska	1,364	1,338	1,377	1,363	1,405	1,427	1,573	1,512	1,498	1,626
Arizona	25,483	25,619	26,749	28,176	32,037	35,282	38,777	42,807	44,532	47,284
Arkansas	9,405	9,628	10,078	10,591	10,784	11,191	11,340	11,479	11,574	12,027
California	118,373	120,015	127,777	132,348	138,324	142,847	146,889	149,237	155,133	156,185
Colorado	21,818	21,731	22,786	23,827	24,787	25,705	28,163	29,424	29,841	29,437
Connecticut	15,072	14,245	14,809	16,034	16,853	16,833	17,997	18,520	18,938	19,178
Delaware	4,616	4,466	4,894	5,123	5,068	5,220	5,392	5,093	5,310	5,455
District of Columbia	7,582	8,166	8,591	8,900	9,435	9,199	10,556	10,261	10,736	10,957
Florida	51,257	52,723	56,468	59,068	63,899	65,853	69,840	73,830	77,439	80,203
Georgia	29,219	28,790	29,999	31,974	36,158	35,494	36,298	37,383	39,010	40,435
Hawaii	4,993	4,772	4,791	4,929	5,371	5,157	5,612	5,511	5,695	5,608
Idaho	4,711	4,646	4,913	5,975	6,042	7,295	7,781	7,996	7,912	9,066
Illinois	55,137	55,967	57,588	59,569	59,544	63,936	68,064	70,018	69,663	69,403
Indiana	31,970	31,881	33,947	35,284	36,388	36,655	38,093	38,533	38,991	39,583
Iowa	18,750	18,652	19,388	20,034	20,174	20,786	21,435	22,388	24,265	26,239
Kansas	14,681	15,014	15,135	16,135	16,507	16,568	17,050	17,417	17,374	17,820
Kentucky	15,643	15,434	16,401	16,254	17,243	17,862	18,646	19,079	19,639	19,996
Louisiana	19,693	19,803	20,147	21,001	21,081	21,269	19,727	21,398	20,892	21,109
Maine	5,672	5,429	5,793	6,158	6,059	6,500	6,544	6,900	7,109	6,909
Maryland	22,089	23,001	23,316	24,537	25,008	25,990	26,685	26,721	27,136	27,909
Massachusetts	42,308	42,792	43,152	44,778	45,641	45,769	47,074	47,920	49,526	50,106
Michigan	45,417	45,795	47,577	49,839	50,701	50,762	51,372	52,873	53,667	54,165

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	23,129	23,146	24,513	25,746	27,303	28,241	28,908	29,605	30,361	31,262
Mississippi	10,988	11,232	11,899	11,797	11,663	11,681	11,803	12,052	12,186	12,430
Missouri	30,017	30,145	32,054	33,256	33,968	34,315	35,193	35,771	35,763	38,373
Montana	5,071	5,016	5,277	5,238	5,369	5,177	5,118	5,217	5,198	5,252
Nebraska	10,747	10,782	10,639	11,025	11,439	11,999	12,150	12,332	12,360	12,575
Nevada	4,070	4,130	4,244	4,619	4,788	5,152	6,204	5,987	6,464	6,623
New Hampshire	7,776	7,254	7,249	7,563	7,908	8,107	8,030	8,306	8,460	8,879
New Jersey	26,939	26,948	28,376	29,604	30,564	31,987	32,251	32,727	33,645	34,625
New Mexico	6,221	5,990	5,868	6,463	6,561	6,659	6,763	7,036	7,102	7,138
New York	95,591	97,437	99,508	106,208	108,158	111,236	113,133	115,312	119,807	122,212
North Carolina	35,257	34,767	36,071	37,272	38,774	39,303	39,969	41,263	43,452	44,834
North Dakota	4,877	4,688	4,810	4,882	5,033	5,161	5,487	5,543	5,531	5,604
Ohio	49,979	51,021	52,929	55,078	56,424	57,152	58,702	59,166	59,499	60,190
Oklahoma	15,578	15,932	16,232	16,348	17,424	18,266	18,909	18,892	19,218	19,634
Oregon	14,428	13,887	14,450	15,601	16,664	16,867	17,631	17,906	17,920	17,918
Pennsylvania	66,322	66,552	69,041	72,392	75,376	77,792	79,809	81,062	82,144	84,709
Rhode Island	8,594	8,468	9,038	9,389	9,586	9,811	10,079	10,215	10,506	10,558
South Carolina	15,897	16,175	16,763	17,661	17,739	18,631	19,157	19,484	20,257	21,058
South Dakota	4,760	4,407	4,532	4,534	4,952	4,959	5,005	5,133	5,101	5,160
Tennessee	22,958	22,823	23,480	24,369	24,983	26,032	26,330	27,272	27,649	29,388
Texas	75,834	76,083	79,603	82,658	85,549	88,779	92,046	95,763	98,222	102,177
Utah	16,797	16,775	17,876	18,725	19,473	20,279	20,168	20,414	20,421	20,855
Vermont	4,832	4,697	4,673	4,545	4,648	4,892	4,981	5,101	5,315	5,788
Virginia	32,863	32,916	32,969	34,660	35,646	37,016	38,815	39,851	41,353	42,584
Washington	23,960	23,386	24,387	25,814	27,173	28,182	28,488	29,100	29,486	30,048
West Virginia	8,545	8,704	9,022	9,335	9,101	9,574	10,033	11,105	11,488	11,366

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	27,542	28,493	28,783	29,645	31,758	31,144	31,429	32,632	33,180	33,633
Wyoming	1,797	1,677	1,655	1,739	1,670	1,695	1,792	1,691	1,802	1,765
Puerto Rico	16,164	15,762	16,468	16,721	17,371	16,693	17,191	17,100	16,773	17,011

Science and Engineering Indicators 2018

State Indicators

Bachelor's degrees

State	2010	2011	2012	2013	2014	2015	2016
United States	1,668,227	1,734,229	1,810,647	1,861,034	1,890,941	1,916,129	1,941,896
Alabama	25,586	27,109	27,281	29,705	29,327	29,917	30,988
Alaska	1,619	1,770	1,750	1,895	2,033	1,932	2,033
Arizona	51,198	57,091	68,627	71,062	62,311	59,096	56,921
Arkansas	12,523	13,259	14,189	14,318	15,488	15,881	16,019
California	159,737	165,593	169,672	177,087	187,278	189,975	194,206
Colorado	29,205	30,182	31,530	33,257	34,402	34,457	34,381
Connecticut	19,680	19,970	20,945	21,700	21,931	22,563	22,721
Delaware	5,488	5,865	5,870	6,216	6,327	6,878	6,988
District of Columbia	10,116	9,687	10,401	10,460	10,156	10,192	10,147
Florida	83,431	86,309	90,746	94,206	96,946	100,396	101,783
Georgia	42,423	45,050	46,188	47,609	48,779	49,809	50,780
Hawaii	5,263	5,617	5,913	6,164	6,560	6,612	6,590
Idaho	9,466	9,171	9,781	10,336	10,703	10,886	11,424
Illinois	70,912	71,639	72,533	76,074	75,057	74,452	75,817
Indiana	41,687	43,519	45,532	46,551	46,986	48,082	47,614
Iowa	30,323	36,266	40,676	41,447	39,975	39,188	37,241
Kansas	18,035	19,034	19,995	20,657	20,416	20,181	20,398
Kentucky	20,389	21,078	21,518	21,858	22,253	22,597	23,221
Louisiana	20,589	21,257	21,948	22,277	22,539	22,247	22,602
Maine	7,088	7,347	7,684	7,335	7,476	7,418	7,652
Maryland	29,065	30,264	31,963	32,786	33,242	34,296	34,955
Massachusetts	52,223	53,749	55,593	57,091	58,712	59,625	61,082
Michigan	55,632	55,839	57,655	58,354	58,908	59,970	60,305

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	31,938	33,373	34,967	36,313	36,433	36,718	36,571
Mississippi	12,953	13,230	13,516	14,076	14,266	14,296	14,702
Missouri	39,682	41,024	42,970	40,117	40,841	41,190	41,468
Montana	5,232	5,512	5,384	5,644	5,964	6,156	6,011
Nebraska	12,596	13,510	14,248	14,119	14,485	14,080	14,301
Nevada	6,815	7,114	7,317	7,653	8,080	8,519	8,638
New Hampshire	9,396	9,479	9,285	9,769	10,137	11,832	12,527
New Jersey	36,025	37,087	39,793	40,295	41,027	42,016	42,479
New Mexico	7,100	7,436	7,575	7,970	8,408	8,391	8,869
New York	124,949	128,500	130,608	133,897	136,194	137,695	140,376
North Carolina	46,826	48,670	50,722	51,782	52,602	52,812	53,526
North Dakota	5,727	5,674	5,679	5,983	6,168	6,291	6,298
Ohio	61,247	64,090	66,947	66,392	68,483	69,813	70,184
Oklahoma	19,535	19,511	19,846	20,047	20,654	20,730	21,024
Oregon	18,873	19,542	21,023	22,085	22,739	22,656	22,563
Pennsylvania	87,179	88,217	90,189	91,425	92,722	93,071	92,373
Rhode Island	10,903	11,074	11,270	11,396	11,742	12,087	12,341
South Carolina	21,905	23,034	22,973	24,004	24,351	24,823	25,107
South Dakota	5,119	5,322	5,497	5,749	5,775	5,704	6,118
Tennessee	29,857	31,026	32,309	33,766	34,134	34,274	35,255
Texas	104,666	107,449	111,303	115,124	118,779	122,163	126,077
Utah	21,392	24,017	26,315	28,336	29,527	31,915	33,941
Vermont	5,888	6,100	6,283	6,206	6,221	6,160	6,222
Virginia	44,227	47,918	51,956	53,747	55,062	56,088	57,933
Washington	30,483	31,312	32,307	32,629	32,431	33,257	33,488
West Virginia	12,032	12,978	14,056	14,357	15,525	15,997	16,519

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	34,092	35,262	35,988	36,927	37,346	37,555	37,493
Wyoming	1,791	1,860	2,064	2,057	2,012	2,026	2,164
Puerto Rico	17,512	17,625	19,606	20,084	20,352	20,488	20,722

Science and Engineering Indicators 2018

State Indicators

Individuals 18–24 years old

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	27,744,738	28,423,532	28,908,773	29,340,084	29,719,320	29,849,590	30,001,425	30,197,665	30,579,025	30,909,846
Alabama	442,244	447,963	450,657	456,549	457,934	458,170	459,114	462,996	470,431	476,884
Alaska	57,670	61,774	65,287	68,253	71,882	73,591	74,369	74,383	75,206	73,249
Arizona	519,627	536,018	549,407	559,859	571,196	580,341	591,986	605,860	621,451	629,438
Arkansas	263,749	268,131	272,203	275,122	275,779	274,439	273,882	275,325	278,835	281,953
California	3,391,356	3,488,933	3,557,190	3,608,183	3,661,991	3,684,405	3,700,882	3,742,151	3,812,579	3,882,345
Colorado	433,665	453,712	464,101	466,666	471,390	472,661	477,387	475,931	481,504	485,310
Connecticut	272,527	278,499	285,757	292,790	298,738	306,038	310,891	315,199	320,268	325,143
Delaware	75,953	78,530	80,679	82,204	82,812	83,750	84,759	86,897	88,587	89,792
District of Columbia	73,084	72,568	71,806	71,395	72,344	74,299	76,839	78,528	81,763	84,944
Florida	1,341,695	1,401,785	1,456,250	1,513,146	1,573,346	1,614,399	1,652,892	1,687,966	1,717,154	1,731,012
Georgia	844,819	866,190	877,530	883,347	904,353	898,133	915,634	928,910	948,921	967,705
Hawaii	116,069	120,970	124,630	126,618	128,434	130,135	131,489	127,842	128,537	128,942
Idaho	139,787	144,212	146,715	150,356	152,372	153,122	153,844	154,347	155,327	155,175
Illinois	1,216,712	1,230,513	1,233,528	1,241,064	1,253,340	1,243,356	1,238,706	1,241,440	1,245,766	1,249,006
Indiana	618,678	628,372	631,917	639,311	642,292	639,669	638,724	637,509	643,543	648,815
Iowa	299,309	303,271	306,683	311,990	315,079	313,294	312,319	307,599	307,267	306,811
Kansas	276,874	282,851	288,353	292,928	296,216	296,639	296,431	290,759	292,316	288,906
Kentucky	404,122	411,270	414,048	414,808	417,231	414,078	405,029	407,676	407,552	411,033
Louisiana	476,115	485,975	494,717	501,600	506,373	501,875	459,662	466,575	469,138	473,182
Maine	104,441	107,177	110,043	113,528	115,063	116,655	117,346	116,426	117,246	117,074
Maryland	454,223	470,318	484,638	498,098	508,100	517,295	525,903	535,532	543,624	552,217
Massachusetts	582,419	594,747	602,799	612,982	617,664	623,551	637,145	648,900	661,626	674,971
Michigan	936,873	955,459	968,580	983,181	987,400	982,064	975,541	967,382	970,359	972,787

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	473,390	486,444	496,503	508,666	513,913	515,385	517,679	512,542	512,238	508,202
Mississippi	312,494	316,243	317,256	318,421	318,565	313,339	306,076	304,284	304,997	304,758
Missouri	539,169	552,622	563,553	574,714	583,646	584,938	583,691	583,425	586,722	588,424
Montana	86,160	89,343	91,911	95,495	97,456	98,622	99,357	96,964	97,094	95,647
Nebraska	175,138	178,947	182,262	185,977	188,301	189,908	188,966	185,312	184,622	183,325
Nevada	182,316	190,232	195,507	202,535	211,757	220,418	229,614	237,590	244,687	246,657
New Hampshire	103,843	107,717	111,142	114,468	117,460	120,104	121,400	121,926	122,815	123,384
New Jersey	679,480	690,374	698,237	707,974	715,500	720,555	729,181	738,538	751,070	761,463
New Mexico	178,009	184,493	191,116	197,243	201,894	202,928	202,027	201,915	201,729	202,410
New York	1,770,901	1,802,422	1,817,402	1,837,040	1,847,979	1,855,760	1,869,014	1,898,728	1,936,825	1,968,102
North Carolina	814,559	824,717	831,246	822,476	841,493	852,278	876,910	883,733	910,643	930,168
North Dakota	73,369	76,459	78,829	81,755	85,049	85,272	85,992	82,958	82,307	81,007
Ohio	1,062,598	1,079,689	1,090,537	1,102,013	1,099,582	1,089,625	1,083,220	1,081,338	1,089,460	1,098,028
Oklahoma	358,278	369,614	377,519	382,018	386,493	383,690	381,715	379,930	378,846	379,849
Oregon	329,918	337,357	344,972	349,353	348,770	349,448	350,178	352,686	356,879	359,611
Pennsylvania	1,099,628	1,121,223	1,140,351	1,160,469	1,173,247	1,183,666	1,200,427	1,214,618	1,231,877	1,252,413
Rhode Island	107,167	109,990	112,756	113,403	115,173	115,595	116,788	117,090	118,410	120,362
South Carolina	411,181	418,111	422,972	426,375	435,193	436,657	440,769	451,135	462,550	472,254
South Dakota	78,009	79,716	81,213	83,126	84,773	84,665	84,428	82,444	82,232	81,791
Tennessee	552,574	563,268	567,742	569,833	575,572	577,652	572,909	584,262	589,192	601,552
Texas	2,213,745	2,283,119	2,340,371	2,386,950	2,420,595	2,434,329	2,463,849	2,477,138	2,511,528	2,548,560
Utah	319,748	328,513	333,724	333,377	328,927	326,725	322,408	320,017	319,576	319,374
Vermont	56,798	58,845	60,590	62,583	63,919	64,910	65,566	65,359	65,116	65,131
Virginia	685,504	706,828	719,251	735,315	753,770	767,898	781,520	787,086	792,590	799,881
Washington	563,285	586,456	602,467	613,184	617,717	622,059	628,998	629,091	642,409	652,077
West Virginia	173,008	174,409	174,600	174,922	173,667	170,930	168,204	166,625	166,170	168,023

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	522,855	534,453	545,215	557,344	563,471	565,538	564,587	558,563	555,711	553,763
Wyoming	50,139	51,810	53,946	55,739	56,968	56,693	56,592	56,595	56,979	57,436
Puerto Rico	429,464	430,880	428,065	423,338	417,141	408,044	398,586	389,640	384,751	379,500

Science and Engineering Indicators 2018

State Indicators

Individuals 18–24 years old

State	2010	2011	2012	2013	2014	2015	2016
United States	31,142,916	31,466,489	31,760,339	31,872,876	31,797,953	31,507,801	31,179,139
Alabama	479,993	481,675	483,985	484,912	478,688	468,855	459,616
Alaska	75,444	76,374	78,133	80,131	79,164	77,519	75,274
Arizona	636,064	648,466	661,741	667,771	672,301	671,833	672,268
Arkansas	285,562	289,012	290,119	290,019	288,759	285,507	281,738
California	3,934,016	3,975,732	4,015,379	4,013,829	3,987,645	3,923,647	3,848,787
Colorado	491,414	499,709	507,533	515,465	522,183	530,067	534,131
Connecticut	331,355	337,340	340,718	345,534	350,400	352,240	352,024
Delaware	91,057	92,170	92,920	91,718	89,344	86,989	85,584
District of Columbia	86,291	84,527	83,136	81,783	80,615	80,824	80,141
Florida	1,745,479	1,774,229	1,788,029	1,789,014	1,780,571	1,759,078	1,739,623
Georgia	975,587	992,510	1,013,408	1,012,603	1,014,071	1,011,112	1,005,386
Hawaii	131,324	132,577	133,686	134,563	133,899	132,282	128,771
Idaho	154,398	155,075	155,514	155,836	156,570	155,392	156,563
Illinois	1,247,611	1,250,030	1,255,592	1,258,145	1,250,294	1,234,068	1,214,511
Indiana	651,642	658,360	665,163	671,014	672,718	667,571	661,254
Iowa	306,720	311,956	316,088	321,082	323,807	323,354	322,097
Kansas	289,077	290,697	295,939	298,732	300,356	300,185	297,133
Kentucky	415,967	421,402	426,848	431,402	430,140	425,590	419,965
Louisiana	475,164	474,938	475,885	473,553	465,434	454,825	442,533
Maine	116,004	116,384	115,813	114,126	112,726	111,064	110,283
Maryland	559,387	566,867	566,454	565,328	561,271	553,904	546,861
Massachusetts	685,162	691,504	694,516	699,665	703,756	703,202	704,251
Michigan	976,443	990,710	1,005,400	1,011,418	1,010,334	993,580	975,645

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	503,045	505,465	507,145	508,420	509,041	507,574	507,542
Mississippi	305,847	308,450	311,197	313,833	309,939	301,878	295,917
Missouri	589,939	591,724	595,014	597,032	594,345	587,595	578,691
Montana	95,084	96,806	98,645	99,772	100,073	99,966	99,302
Nebraska	182,980	184,521	186,555	188,493	190,999	191,916	192,718
Nevada	248,824	249,866	253,090	253,782	253,464	251,065	250,225
New Hampshire	123,586	125,349	126,377	127,427	129,162	128,723	127,516
New Jersey	770,272	780,439	788,209	794,391	797,635	792,759	786,743
New Mexico	204,791	207,808	210,086	210,152	207,757	203,527	200,362
New York	1,985,556	1,999,000	2,003,302	1,997,415	1,978,274	1,940,521	1,905,051
North Carolina	941,591	950,232	961,429	968,825	966,091	967,191	966,234
North Dakota	81,236	83,582	87,441	92,044	93,290	94,232	91,112
Ohio	1,103,158	1,109,511	1,113,010	1,111,766	1,103,659	1,088,191	1,075,485
Oklahoma	381,746	384,554	389,938	392,971	391,661	388,745	383,081
Oregon	359,062	362,531	366,194	366,135	366,523	365,371	365,578
Pennsylvania	1,263,088	1,269,277	1,265,858	1,253,265	1,232,175	1,206,557	1,187,598
Rhode Island	120,337	120,763	120,376	118,075	116,663	115,528	114,376
South Carolina	477,606	481,259	485,037	484,374	480,047	473,993	468,536
South Dakota	81,845	82,851	84,015	84,664	84,904	84,585	84,605
Tennessee	607,665	614,831	627,051	630,451	629,044	624,040	617,867
Texas	2,583,963	2,628,905	2,678,577	2,717,025	2,750,113	2,767,496	2,767,722
Utah	318,444	321,461	327,274	333,859	335,310	339,370	343,283
Vermont	65,244	66,154	66,563	67,385	67,932	68,160	67,743
Virginia	804,674	813,756	820,152	825,017	824,224	818,193	812,207
Washington	650,546	659,963	664,983	665,408	666,192	662,656	661,194
West Virginia	169,432	171,014	172,069	172,352	170,672	165,711	161,635

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	549,958	553,004	558,339	563,092	565,759	565,271	561,861
Wyoming	56,354	56,521	58,191	59,107	57,871	56,683	55,188
Puerto Rico	375,882	374,648	372,223	368,701	360,088	347,616	335,328

Science and Engineering Indicators 2018

State Indicators

S-19 Bachelor's Degrees in Science and Engineering Conferred per 1,000 Individuals 18–24 Years Old

Description

This indicator represents the extent to which a state provides bachelor's-level training in S&E fields, controlling for the size of its college-age population. The cohort 18–24 years old was chosen to approximate the age range of most students who are pursuing an undergraduate degree.

Educational attainment in an S&E field gives people greater opportunities to work in higher-paying technical jobs than are generally available to those in other fields of study. Earning a bachelor's degree in an S&E field also prepares an individual for advanced technical education. S&E fields include the physical, life, earth, ocean, atmospheric, computer, and social sciences; mathematics; engineering; and psychology. They do not include medical fields or technologies.

The number of bachelor's degrees awarded in S&E fields is an actual count provided by the National Center for Education Statistics and includes degrees from both public and private institutions. These values are reported by the state in which the degree-granting institution is located.

Estimates of the population aged 18–24 are provided by the U.S. Census Bureau based on the 2000 and 2010 Decennial Censuses and are reported by the state of residence. Each year, the Census Bureau utilizes current data on births, deaths, and migration to calculate population change since the most recent decennial census and produces time series of estimates of population. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

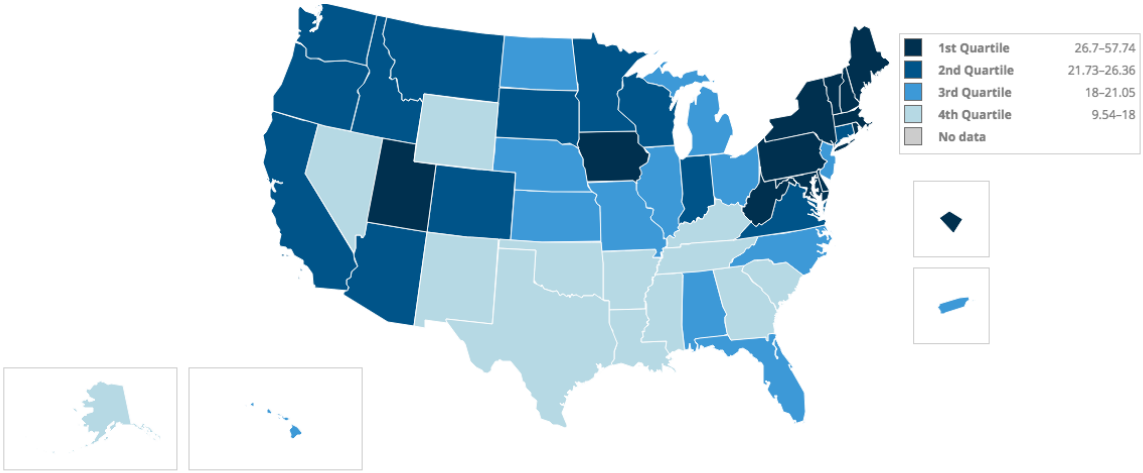
A high value for this indicator may suggest the successful provision of undergraduate training in S&E fields. Student mobility after graduation is not accounted for, which may make this indicator less meaningful in predicting the qualifications of a state's future technical workforce. A state's value for this indicator may also be high when its higher education system draws a large percentage of out-of-state students, a situation that sometimes occurs in states with small resident populations and the District of Columbia. Because these are estimates, small differences in the indicator value between states or across time generally are not meaningful. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

Data sources: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program.

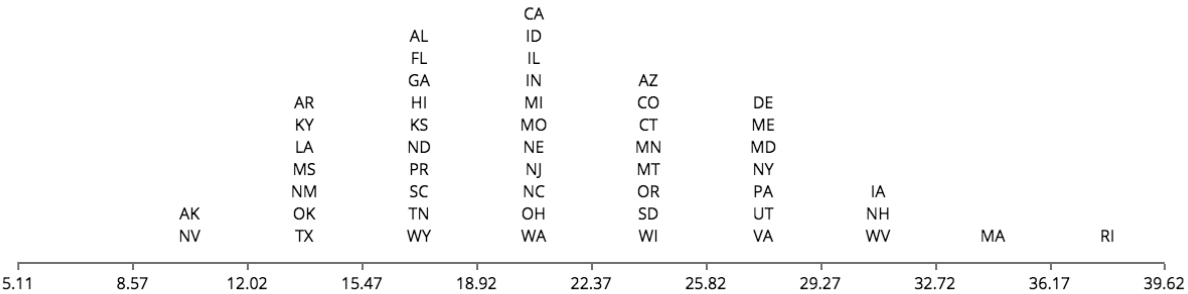
State Indicators

S-19 Bachelor's Degrees in Science and Engineering Conferred per 1,000 Individuals 18–24 Years Old

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

Bachelor's Degrees in Science and Engineering Conferred per 1,000 Individuals 18–24 Years Old

(Degrees)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	14.37	14.09	14.39	15.09	15.43	15.75	15.96	16.09	16.23	16.35
Alabama	12.61	12.27	11.56	11.18	11.67	12.59	13.09	13.08	13.07	13.60
Alaska	6.81	6.80	6.17	6.11	6.41	5.98	6.92	6.59	6.71	7.63
Arizona	9.66	9.22	10.82	12.52	14.94	15.78	16.00	16.72	16.96	18.38
Arkansas	9.07	8.97	9.63	9.90	9.75	10.01	9.71	9.75	9.66	9.76
California	13.68	13.67	14.31	14.83	15.11	15.62	16.13	16.05	16.29	16.07
Colorado	20.31	19.21	20.22	20.65	21.06	21.70	22.96	22.67	23.29	22.24
Connecticut	18.86	18.53	18.39	19.47	20.12	19.43	20.17	20.46	20.84	20.92
Delaware	20.24	18.36	20.01	19.35	19.14	19.71	20.39	18.49	18.92	18.78
District of Columbia	46.47	53.47	56.50	58.77	60.02	56.16	62.65	55.15	56.75	52.99
Florida	10.49	10.30	10.56	11.07	11.94	12.01	12.38	12.48	12.76	13.08
Georgia	10.64	10.53	10.96	12.06	13.46	12.62	12.22	12.35	12.36	12.15
Hawaii	14.30	13.24	12.75	12.26	13.98	13.92	14.40	14.34	15.20	15.61
Idaho	10.67	9.81	10.26	11.81	11.07	12.80	14.03	14.16	13.96	15.08
Illinois	13.12	13.12	13.40	14.30	14.06	15.25	15.48	15.41	15.54	15.62
Indiana	14.42	13.92	14.81	15.33	15.61	16.38	16.28	16.73	16.35	15.74
Iowa	18.56	17.72	18.02	19.10	19.09	19.52	19.60	20.65	22.34	24.95
Kansas	15.30	15.76	14.87	15.59	15.88	16.00	15.59	16.12	15.75	16.12
Kentucky	10.28	9.83	10.50	10.05	10.64	10.96	11.93	11.98	12.00	12.03
Louisiana	11.69	11.30	11.36	11.88	11.63	12.02	12.04	12.80	12.40	12.16
Maine	20.27	19.24	19.31	20.75	19.48	20.18	20.37	21.04	22.12	21.51
Maryland	18.93	18.88	19.00	19.98	20.90	21.37	21.24	20.49	20.45	20.63
Massachusetts	27.58	27.22	27.27	27.55	27.82	28.21	27.93	27.31	27.79	27.35

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	14.56	14.32	14.63	15.65	15.88	15.82	16.02	16.38	17.06	17.30
Minnesota	15.66	15.39	15.80	16.06	16.95	17.96	18.43	18.50	19.53	19.79
Mississippi	8.86	8.97	8.92	8.33	8.74	8.88	9.22	9.79	9.63	9.96
Missouri	15.25	15.24	16.01	16.35	16.50	16.35	16.53	16.70	16.56	16.87
Montana	20.13	19.23	19.00	20.16	19.22	18.32	17.74	19.06	18.47	19.59
Nebraska	15.17	14.33	13.60	13.99	14.41	16.00	16.21	16.57	17.14	17.09
Nevada	5.76	5.11	5.41	5.68	6.40	6.14	7.46	7.03	7.80	7.72
New Hampshire	26.85	23.00	21.98	22.77	24.00	23.53	23.15	23.37	22.73	23.74
New Jersey	15.93	15.38	15.84	16.48	16.81	16.45	16.00	15.81	15.61	15.80
New Mexico	10.81	9.76	9.10	9.83	9.78	9.96	9.80	10.31	9.85	10.37
New York	18.16	18.42	18.25	20.11	20.06	20.30	20.00	19.87	19.82	20.13
North Carolina	14.76	14.34	14.96	15.45	16.02	15.83	15.17	15.93	15.94	15.95
North Dakota	18.11	15.88	16.20	16.87	15.58	15.30	14.95	16.06	16.12	16.37
Ohio	13.06	12.97	13.22	13.79	14.05	14.21	14.52	15.03	14.59	14.81
Oklahoma	11.17	11.00	11.03	10.36	11.45	12.30	12.68	12.85	12.61	12.84
Oregon	16.31	15.35	15.74	16.40	17.79	17.92	18.44	18.65	18.35	18.20
Pennsylvania	19.21	18.74	19.16	20.25	20.56	20.89	20.91	20.84	21.11	21.17
Rhode Island	23.36	21.27	22.18	25.70	26.28	26.26	27.48	25.19	26.30	26.00
South Carolina	12.15	11.84	12.10	12.64	12.26	12.99	13.15	12.96	12.93	13.02
South Dakota	20.05	18.06	18.19	17.73	18.89	18.35	19.05	19.71	19.82	19.33
Tennessee	11.82	11.15	11.67	12.35	12.33	12.39	12.36	12.32	12.57	12.85
Texas	9.41	9.10	9.16	9.82	10.03	10.39	10.51	10.76	10.87	10.88
Utah	16.40	15.49	17.18	18.78	19.85	20.64	20.62	21.72	21.18	21.50
Vermont	32.06	31.17	30.24	29.83	29.33	30.69	30.81	32.36	33.22	36.07
Virginia	18.16	17.75	17.43	17.69	17.34	17.85	18.11	18.19	18.63	18.94
Washington	14.03	13.74	14.03	14.79	15.31	16.27	16.15	16.76	16.22	16.40

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	12.74	12.48	12.83	13.42	12.66	13.37	14.40	15.97	18.13	17.43
Wisconsin	16.46	16.50	16.44	17.33	17.98	17.89	18.28	19.15	19.19	19.63
Wyoming	13.66	11.60	11.57	11.12	10.80	9.82	11.61	10.69	11.85	11.30
Puerto Rico	9.80	9.85	9.95	10.95	10.25	10.10	10.51	10.44	10.41	11.34

Note(s):
The national bachelor's S&E degrees total for the United States includes U.S. territories; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (various years). Data on degrees conferred prior to 2016 were retrieved from the National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR); data for 2016 are from the NCES IPEDS Data System, accessed 2 November, 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

Recommended Citation: National Science Board. 2018. “Bachelor's Degrees in Science and Engineering Conferred per 1,000 Individuals 18–24 Years Old.” Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/se-bachelors-degrees-per-1000-18-24-year-olds

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Bachelor's Degrees in Science and Engineering Conferred per 1,000 Individuals 18–24 Years Old

(Degrees)

State	2010	2011	2012	2013	2014	2015	2016
United States	16.87	17.62	18.56	19.31	20.00	20.63	21.36
Alabama	13.87	15.36	15.74	16.22	16.59	17.22	18.00
Alaska	8.02	9.07	7.78	8.64	9.11	9.11	9.54
Arizona	20.70	22.98	28.15	29.97	27.22	24.47	24.00
Arkansas	10.20	11.06	12.29	12.54	13.77	14.15	15.04
California	16.38	16.94	17.69	18.65	19.78	20.56	21.80
Colorado	21.46	22.27	23.64	24.49	25.80	25.38	25.42
Connecticut	21.10	21.38	22.47	22.81	22.58	23.61	24.02
Delaware	18.41	20.78	20.89	23.55	24.71	27.36	27.73
District of Columbia	51.78	51.19	55.45	58.63	58.17	57.07	57.74
Florida	13.68	14.28	15.35	16.13	16.83	18.08	18.85
Georgia	12.69	13.41	13.97	15.13	16.05	16.69	17.43
Hawaii	13.94	14.84	14.83	16.85	16.61	18.03	18.54
Idaho	15.99	15.76	17.25	19.89	20.81	21.73	22.07
Illinois	16.09	16.50	17.02	17.56	18.00	18.11	19.00
Indiana	16.95	18.57	19.43	19.88	20.59	21.81	22.37
Iowa	31.88	37.64	39.62	38.04	35.19	34.46	32.65
Kansas	15.99	15.92	17.18	17.10	17.34	17.29	18.05
Kentucky	12.02	12.51	13.49	13.85	14.22	14.60	15.14
Louisiana	11.53	12.44	12.92	13.73	14.13	14.59	14.93
Maine	23.27	24.52	25.38	24.31	25.56	26.64	28.11
Maryland	21.15	21.85	23.51	24.64	25.26	27.30	28.33
Massachusetts	28.06	28.96	30.23	31.35	32.86	33.87	35.27

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	17.79	17.68	18.22	18.49	19.43	19.82	20.73
Minnesota	20.76	21.78	23.27	24.41	24.83	25.17	25.42
Mississippi	10.24	10.35	11.13	11.02	12.08	12.18	12.81
Missouri	17.23	17.62	18.47	19.19	19.44	20.10	21.05
Montana	18.03	19.50	18.25	20.57	22.63	23.41	22.57
Nebraska	17.77	18.51	19.03	19.46	20.49	19.22	20.17
Nevada	8.09	8.76	9.21	9.37	10.52	11.53	11.61
New Hampshire	25.00	26.20	26.52	27.29	28.18	31.98	32.17
New Jersey	16.30	16.43	17.64	18.04	18.38	19.03	19.66
New Mexico	10.44	11.07	11.65	11.96	13.43	13.21	14.80
New York	20.70	21.47	22.13	23.18	24.09	25.45	26.70
North Carolina	16.35	17.41	18.17	18.68	19.39	19.59	20.25
North Dakota	17.44	16.97	17.38	17.33	17.03	18.89	18.87
Ohio	15.31	16.11	17.19	16.81	17.83	18.86	19.49
Oklahoma	12.22	12.52	13.23	13.36	13.74	14.05	15.09
Oregon	19.19	19.98	21.91	23.47	25.38	25.68	25.46
Pennsylvania	21.52	22.28	23.04	24.62	25.89	26.67	27.11
Rhode Island	26.92	28.01	29.19	31.40	34.23	35.76	37.78
South Carolina	13.41	14.58	14.70	15.98	16.88	17.57	18.00
South Dakota	20.38	20.22	20.50	21.08	21.15	21.00	22.37
Tennessee	13.06	13.61	14.48	14.59	14.87	15.22	15.79
Texas	11.18	11.58	11.96	12.42	12.77	13.16	13.75
Utah	21.93	23.86	24.87	24.93	26.01	27.36	27.93
Vermont	39.27	39.24	41.09	41.11	38.64	40.01	40.09
Virginia	19.67	21.19	22.91	24.05	24.97	25.82	26.36
Washington	17.19	17.66	18.78	20.26	20.33	21.15	21.73

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	18.78	20.69	22.72	24.84	27.11	29.27	32.02
Wisconsin	20.12	20.88	21.35	22.41	23.23	23.67	24.03
Wyoming	11.78	12.81	13.63	13.45	14.03	13.92	16.14
Puerto Rico	11.82	11.81	14.00	14.36	16.45	17.31	18.12

Note(s):
The national bachelor's S&E degrees total for the United States includes U.S. territories; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (various years). Data on degrees conferred prior to 2016 were retrieved from the National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR); data for 2016 are from the NCES IPEDS Data System, accessed 2 November, 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S&E bachelor's degrees

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	329,094	337,675	355,265	366,035	373,261	378,148	384,476	388,356	390,796	391,191
Alabama	4,325	4,644	5,086	5,256	5,362	5,229	5,501	5,336	5,380	5,352
Alaska	318	314	318	341	396	398	461	480	479	412
Arizona	3,712	3,899	4,157	4,366	4,344	5,002	4,845	4,956	5,275	5,281
Arkansas	1,616	1,805	1,906	1,974	2,072	2,146	2,335	2,503	2,378	2,462
California	38,140	36,936	39,875	42,474	42,809	42,760	43,581	43,498	44,535	45,001
Colorado	6,626	6,766	7,203	7,765	8,165	8,278	8,159	8,404	8,567	8,547
Connecticut	4,761	4,944	5,191	5,332	5,294	5,385	5,209	5,244	5,219	5,043
Delaware	1,200	1,547	1,550	1,448	1,459	1,507	1,460	1,497	1,430	1,516
District of Columbia	3,220	3,338	3,596	3,505	3,313	3,401	3,481	3,530	3,586	3,372
Florida	9,328	10,267	10,705	11,286	11,851	12,381	13,267	13,331	13,557	13,631
Georgia	6,140	6,251	6,607	7,048	7,419	7,592	8,169	8,136	8,938	8,872
Hawaii	1,229	1,215	1,231	1,282	1,300	1,422	1,498	1,510	1,502	1,496
Idaho	841	827	916	1,033	1,251	1,234	1,333	1,372	1,317	1,361
Illinois	15,202	14,769	15,075	14,838	14,924	15,148	15,132	15,411	15,550	15,614
Indiana	8,346	8,749	9,487	9,427	9,122	8,942	9,253	9,135	8,954	8,567
Iowa	4,321	4,616	4,852	5,058	5,149	5,191	5,322	5,392	5,183	5,365
Kansas	3,417	3,535	3,758	3,927	4,130	4,108	4,131	4,108	3,959	4,186
Kentucky	3,006	3,194	3,512	3,593	3,920	3,977	4,046	4,048	4,080	4,310
Louisiana	3,925	3,927	4,336	4,548	4,720	5,092	5,300	5,202	5,431	5,422
Maine	1,606	1,699	1,853	2,049	1,992	1,926	1,961	1,951	1,994	2,102
Maryland	7,039	7,390	7,797	7,714	7,757	7,805	8,021	8,384	8,348	8,378
Massachusetts	15,566	16,270	16,269	14,918	14,889	14,990	15,753	15,383	15,487	15,639
Michigan	13,273	13,647	13,798	13,835	14,179	13,880	14,062	13,940	13,792	13,317

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	6,596	7,060	7,225	7,365	7,588	7,711	7,444	7,600	7,679	7,751
Mississippi	1,984	2,104	2,287	2,686	2,692	2,817	2,764	2,717	2,712	2,776
Missouri	5,927	6,315	6,753	6,814	7,095	7,551	7,504	7,856	8,084	8,059
Montana	1,182	1,058	1,231	1,265	1,338	1,374	1,546	1,750	1,693	1,731
Nebraska	1,866	2,064	2,095	2,226	2,345	2,309	2,448	2,538	2,587	2,327
Nevada	492	534	566	700	777	846	881	934	1,031	1,023
New Hampshire	2,260	2,290	2,403	2,473	2,504	2,515	2,477	2,508	2,673	2,686
New Jersey	8,400	8,443	8,362	8,896	9,272	9,174	9,537	9,818	10,095	10,303
New Mexico	1,612	1,692	1,653	1,745	1,869	1,863	1,933	1,896	1,868	1,882
New York	29,952	30,512	31,521	31,818	31,549	31,994	32,173	32,767	31,863	31,536
North Carolina	9,209	9,480	10,358	10,835	11,771	11,721	12,014	12,401	12,122	11,766
North Dakota	1,136	1,151	1,214	1,163	1,206	1,218	1,241	1,318	1,315	1,372
Ohio	12,435	12,810	13,403	13,996	13,923	14,176	14,076	14,317	14,315	14,082
Oklahoma	3,273	3,318	3,404	3,604	3,802	3,764	3,697	4,068	3,991	4,698
Oregon	3,839	4,215	4,589	4,572	4,732	4,695	4,854	4,861	5,000	5,121
Pennsylvania	19,082	18,917	19,705	20,024	20,173	20,403	20,307	20,638	20,685	20,823
Rhode Island	2,145	2,418	2,472	2,451	2,416	2,522	2,581	2,365	2,354	2,417
South Carolina	3,766	4,157	4,417	4,579	4,885	4,744	4,868	4,995	4,829	4,970
South Dakota	1,173	1,270	1,344	1,396	1,420	1,560	1,573	1,630	1,583	1,581
Tennessee	5,042	5,174	5,579	5,903	5,991	6,302	6,356	6,415	6,605	6,549
Texas	16,166	16,703	18,282	19,032	19,439	20,035	20,163	19,942	20,335	20,270
Utah	3,754	3,760	4,056	4,310	4,885	4,832	5,254	5,357	5,566	5,693
Vermont	1,756	1,704	1,728	1,816	1,879	1,804	1,749	1,701	1,758	1,901
Virginia	9,637	10,444	11,072	11,981	12,002	12,159	12,175	11,943	11,694	11,694
Washington	6,009	6,148	6,323	6,740	7,176	7,355	7,553	7,982	8,070	7,710
West Virginia	1,609	1,659	1,830	1,911	2,192	2,184	2,278	2,087	2,089	2,155

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	8,076	8,041	8,408	8,786	8,613	8,462	8,390	8,543	8,622	8,511
Wyoming	440	543	585	609	617	641	623	687	643	649
Puerto Rico	3,061	3,070	3,274	3,260	3,212	3,538	3,660	3,860	3,889	3,801

Science and Engineering Indicators 2018

State Indicators

S&E bachelor's degrees

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	398,602	400,435	415,983	442,755	458,658	470,214	478,858	485,772	496,168	505,435
Alabama	5,575	5,498	5,211	5,106	5,346	5,767	6,012	6,055	6,150	6,488
Alaska	393	420	403	417	461	440	515	490	505	559
Arizona	5,017	4,943	5,942	7,008	8,535	9,160	9,470	10,127	10,537	11,572
Arkansas	2,392	2,404	2,620	2,723	2,690	2,748	2,659	2,684	2,693	2,751
California	46,389	47,700	50,909	53,502	55,346	57,559	59,687	60,076	62,110	62,396
Colorado	8,806	8,716	9,383	9,638	9,928	10,259	10,959	10,791	11,213	10,795
Connecticut	5,139	5,161	5,256	5,702	6,010	5,945	6,272	6,450	6,674	6,803
Delaware	1,537	1,442	1,614	1,591	1,585	1,651	1,728	1,607	1,676	1,686
District of Columbia	3,396	3,880	4,057	4,196	4,342	4,173	4,814	4,331	4,640	4,501
Florida	14,074	14,440	15,375	16,752	18,791	19,381	20,462	21,073	21,913	22,638
Georgia	8,990	9,119	9,621	10,649	12,176	11,334	11,189	11,469	11,725	11,758
Hawaii	1,660	1,602	1,589	1,552	1,795	1,811	1,894	1,833	1,954	2,013
Idaho	1,492	1,415	1,505	1,775	1,687	1,960	2,159	2,186	2,168	2,340
Illinois	15,960	16,150	16,527	17,753	17,616	18,965	19,171	19,135	19,360	19,510
Indiana	8,921	8,748	9,358	9,800	10,025	10,477	10,397	10,663	10,520	10,211
Iowa	5,556	5,375	5,525	5,960	6,015	6,117	6,122	6,353	6,865	7,656
Kansas	4,237	4,457	4,289	4,567	4,705	4,746	4,621	4,687	4,603	4,656
Kentucky	4,153	4,041	4,347	4,169	4,438	4,537	4,830	4,885	4,892	4,944
Louisiana	5,568	5,490	5,622	5,958	5,889	6,032	5,535	5,973	5,816	5,756
Maine	2,117	2,062	2,125	2,356	2,242	2,354	2,390	2,450	2,593	2,518
Maryland	8,598	8,878	9,208	9,954	10,619	11,057	11,170	10,974	11,118	11,393
Massachusetts	16,062	16,189	16,436	16,886	17,183	17,589	17,794	17,724	18,384	18,463
Michigan	13,642	13,682	14,173	15,390	15,681	15,536	15,625	15,849	16,554	16,833

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	7,411	7,485	7,844	8,171	8,711	9,257	9,543	9,480	10,006	10,059
Mississippi	2,769	2,836	2,831	2,654	2,783	2,784	2,821	2,979	2,937	3,036
Missouri	8,221	8,422	9,024	9,395	9,630	9,561	9,651	9,746	9,718	9,926
Montana	1,734	1,718	1,746	1,925	1,873	1,807	1,763	1,848	1,793	1,874
Nebraska	2,657	2,564	2,478	2,601	2,713	3,039	3,064	3,070	3,164	3,133
Nevada	1,050	973	1,057	1,150	1,356	1,354	1,713	1,670	1,909	1,903
New Hampshire	2,788	2,477	2,443	2,606	2,819	2,826	2,811	2,849	2,791	2,929
New Jersey	10,822	10,617	11,058	11,670	12,031	11,856	11,668	11,673	11,726	12,028
New Mexico	1,925	1,801	1,739	1,939	1,975	2,021	1,979	2,081	1,988	2,100
New York	32,158	33,202	33,169	36,936	37,063	37,663	37,387	37,720	38,386	39,609
North Carolina	12,021	11,826	12,438	12,709	13,483	13,488	13,300	14,074	14,516	14,833
North Dakota	1,329	1,214	1,277	1,379	1,325	1,305	1,286	1,332	1,327	1,326
Ohio	13,874	14,001	14,417	15,198	15,447	15,485	15,723	16,251	15,890	16,257
Oklahoma	4,001	4,067	4,163	3,956	4,425	4,718	4,839	4,881	4,777	4,878
Oregon	5,381	5,177	5,429	5,731	6,205	6,261	6,456	6,579	6,549	6,545
Pennsylvania	21,124	21,014	21,850	23,496	24,118	24,728	25,096	25,314	26,010	26,516
Rhode Island	2,503	2,340	2,501	2,914	3,027	3,036	3,209	2,949	3,114	3,129
South Carolina	4,996	4,951	5,119	5,391	5,337	5,673	5,796	5,847	5,982	6,151
South Dakota	1,564	1,440	1,477	1,474	1,601	1,554	1,608	1,625	1,630	1,581
Tennessee	6,532	6,281	6,627	7,040	7,095	7,156	7,080	7,200	7,409	7,727
Texas	20,831	20,778	21,428	23,438	24,284	25,294	25,896	26,662	27,291	27,723
Utah	5,245	5,090	5,733	6,262	6,528	6,743	6,647	6,951	6,768	6,866
Vermont	1,821	1,834	1,832	1,867	1,875	1,992	2,020	2,115	2,163	2,349
Virginia	12,452	12,544	12,538	13,010	13,070	13,706	14,150	14,315	14,768	15,152
Washington	7,905	8,055	8,450	9,069	9,458	10,121	10,158	10,546	10,423	10,692
West Virginia	2,204	2,176	2,240	2,347	2,198	2,285	2,422	2,661	3,012	2,929

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	8,604	8,818	8,964	9,658	10,129	10,118	10,318	10,697	10,662	10,869
Wyoming	685	601	624	620	615	557	657	605	675	649
Puerto Rico	4,207	4,243	4,260	4,634	4,275	4,121	4,190	4,069	4,006	4,304

Science and Engineering Indicators 2018

State Indicators

S&E bachelor's degrees

State	2010	2011	2012	2013	2014	2015	2016
United States	525,374	554,365	589,330	615,475	635,915	650,057	666,031
Alabama	6,658	7,399	7,617	7,867	7,943	8,073	8,274
Alaska	605	693	608	692	721	706	718
Arizona	13,166	14,903	18,630	20,014	18,301	16,437	16,137
Arkansas	2,913	3,196	3,565	3,638	3,977	4,039	4,236
California	64,431	67,347	71,012	74,845	78,868	80,674	83,921
Colorado	10,548	11,131	11,999	12,623	13,474	13,452	13,579
Connecticut	6,991	7,213	7,655	7,882	7,913	8,318	8,457
Delaware	1,676	1,915	1,941	2,160	2,208	2,380	2,373
District of Columbia	4,468	4,327	4,610	4,795	4,689	4,613	4,627
Florida	23,885	25,328	27,446	28,849	29,973	31,800	32,790
Georgia	12,382	13,305	14,156	15,322	16,271	16,876	17,526
Hawaii	1,831	1,967	1,983	2,267	2,224	2,385	2,388
Idaho	2,469	2,444	2,683	3,099	3,258	3,377	3,455
Illinois	20,070	20,626	21,375	22,095	22,505	22,349	23,075
Indiana	11,044	12,224	12,921	13,340	13,853	14,561	14,789
Iowa	9,777	11,742	12,523	12,215	11,396	11,142	10,515
Kansas	4,621	4,629	5,085	5,107	5,207	5,190	5,362
Kentucky	5,000	5,271	5,759	5,977	6,116	6,214	6,357
Louisiana	5,478	5,906	6,148	6,501	6,578	6,638	6,605
Maine	2,699	2,854	2,939	2,774	2,881	2,959	3,100
Maryland	11,831	12,388	13,316	13,928	14,176	15,123	15,492
Massachusetts	19,226	20,023	20,992	21,931	23,128	23,817	24,839
Michigan	17,368	17,516	18,323	18,703	19,635	19,695	20,223

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	10,442	11,010	11,800	12,410	12,641	12,775	12,903
Mississippi	3,131	3,191	3,464	3,459	3,745	3,676	3,790
Missouri	10,167	10,427	10,992	11,455	11,556	11,811	12,181
Montana	1,714	1,888	1,800	2,052	2,265	2,340	2,241
Nebraska	3,252	3,415	3,551	3,668	3,914	3,689	3,887
Nevada	2,012	2,188	2,331	2,379	2,666	2,894	2,904
New Hampshire	3,090	3,284	3,351	3,478	3,640	4,117	4,102
New Jersey	12,555	12,819	13,906	14,328	14,658	15,085	15,464
New Mexico	2,137	2,300	2,447	2,514	2,791	2,688	2,965
New York	41,101	42,916	44,329	46,294	47,653	49,392	50,862
North Carolina	15,399	16,543	17,467	18,100	18,730	18,950	19,564
North Dakota	1,417	1,418	1,520	1,595	1,589	1,780	1,719
Ohio	16,891	17,872	19,130	18,693	19,682	20,522	20,962
Oklahoma	4,665	4,815	5,160	5,249	5,383	5,460	5,781
Oregon	6,892	7,242	8,022	8,593	9,304	9,383	9,306
Pennsylvania	27,181	28,274	29,166	30,858	31,895	32,173	32,196
Rhode Island	3,239	3,382	3,514	3,707	3,993	4,131	4,321
South Carolina	6,406	7,017	7,132	7,741	8,104	8,329	8,433
South Dakota	1,668	1,675	1,722	1,785	1,796	1,776	1,893
Tennessee	7,939	8,370	9,078	9,201	9,356	9,497	9,758
Texas	28,881	30,453	32,023	33,748	35,121	36,423	38,068
Utah	6,982	7,671	8,139	8,322	8,720	9,284	9,587
Vermont	2,562	2,596	2,735	2,770	2,625	2,727	2,716
Virginia	15,830	17,242	18,793	19,845	20,581	21,123	21,412
Washington	11,184	11,652	12,487	13,482	13,544	14,017	14,366
West Virginia	3,182	3,539	3,910	4,281	4,627	4,850	5,175

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	11,067	11,545	11,921	12,617	13,143	13,380	13,502
Wyoming	664	724	793	795	812	789	891
Puerto Rico	4,443	4,426	5,210	5,293	5,925	6,018	6,076

Science and Engineering Indicators 2018

State Indicators

Individuals 18–24 years old

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	27,744,738	28,423,532	28,908,773	29,340,084	29,719,320	29,849,590	30,001,425	30,197,665	30,579,025	30,909,846
Alabama	442,244	447,963	450,657	456,549	457,934	458,170	459,114	462,996	470,431	476,884
Alaska	57,670	61,774	65,287	68,253	71,882	73,591	74,369	74,383	75,206	73,249
Arizona	519,627	536,018	549,407	559,859	571,196	580,341	591,986	605,860	621,451	629,438
Arkansas	263,749	268,131	272,203	275,122	275,779	274,439	273,882	275,325	278,835	281,953
California	3,391,356	3,488,933	3,557,190	3,608,183	3,661,991	3,684,405	3,700,882	3,742,151	3,812,579	3,882,345
Colorado	433,665	453,712	464,101	466,666	471,390	472,661	477,387	475,931	481,504	485,310
Connecticut	272,527	278,499	285,757	292,790	298,738	306,038	310,891	315,199	320,268	325,143
Delaware	75,953	78,530	80,679	82,204	82,812	83,750	84,759	86,897	88,587	89,792
District of Columbia	73,084	72,568	71,806	71,395	72,344	74,299	76,839	78,528	81,763	84,944
Florida	1,341,695	1,401,785	1,456,250	1,513,146	1,573,346	1,614,399	1,652,892	1,687,966	1,717,154	1,731,012
Georgia	844,819	866,190	877,530	883,347	904,353	898,133	915,634	928,910	948,921	967,705
Hawaii	116,069	120,970	124,630	126,618	128,434	130,135	131,489	127,842	128,537	128,942
Idaho	139,787	144,212	146,715	150,356	152,372	153,122	153,844	154,347	155,327	155,175
Illinois	1,216,712	1,230,513	1,233,528	1,241,064	1,253,340	1,243,356	1,238,706	1,241,440	1,245,766	1,249,006
Indiana	618,678	628,372	631,917	639,311	642,292	639,669	638,724	637,509	643,543	648,815
Iowa	299,309	303,271	306,683	311,990	315,079	313,294	312,319	307,599	307,267	306,811
Kansas	276,874	282,851	288,353	292,928	296,216	296,639	296,431	290,759	292,316	288,906
Kentucky	404,122	411,270	414,048	414,808	417,231	414,078	405,029	407,676	407,552	411,033
Louisiana	476,115	485,975	494,717	501,600	506,373	501,875	459,662	466,575	469,138	473,182
Maine	104,441	107,177	110,043	113,528	115,063	116,655	117,346	116,426	117,246	117,074
Maryland	454,223	470,318	484,638	498,098	508,100	517,295	525,903	535,532	543,624	552,217
Massachusetts	582,419	594,747	602,799	612,982	617,664	623,551	637,145	648,900	661,626	674,971
Michigan	936,873	955,459	968,580	983,181	987,400	982,064	975,541	967,382	970,359	972,787

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	473,390	486,444	496,503	508,666	513,913	515,385	517,679	512,542	512,238	508,202
Mississippi	312,494	316,243	317,256	318,421	318,565	313,339	306,076	304,284	304,997	304,758
Missouri	539,169	552,622	563,553	574,714	583,646	584,938	583,691	583,425	586,722	588,424
Montana	86,160	89,343	91,911	95,495	97,456	98,622	99,357	96,964	97,094	95,647
Nebraska	175,138	178,947	182,262	185,977	188,301	189,908	188,966	185,312	184,622	183,325
Nevada	182,316	190,232	195,507	202,535	211,757	220,418	229,614	237,590	244,687	246,657
New Hampshire	103,843	107,717	111,142	114,468	117,460	120,104	121,400	121,926	122,815	123,384
New Jersey	679,480	690,374	698,237	707,974	715,500	720,555	729,181	738,538	751,070	761,463
New Mexico	178,009	184,493	191,116	197,243	201,894	202,928	202,027	201,915	201,729	202,410
New York	1,770,901	1,802,422	1,817,402	1,837,040	1,847,979	1,855,760	1,869,014	1,898,728	1,936,825	1,968,102
North Carolina	814,559	824,717	831,246	822,476	841,493	852,278	876,910	883,733	910,643	930,168
North Dakota	73,369	76,459	78,829	81,755	85,049	85,272	85,992	82,958	82,307	81,007
Ohio	1,062,598	1,079,689	1,090,537	1,102,013	1,099,582	1,089,625	1,083,220	1,081,338	1,089,460	1,098,028
Oklahoma	358,278	369,614	377,519	382,018	386,493	383,690	381,715	379,930	378,846	379,849
Oregon	329,918	337,357	344,972	349,353	348,770	349,448	350,178	352,686	356,879	359,611
Pennsylvania	1,099,628	1,121,223	1,140,351	1,160,469	1,173,247	1,183,666	1,200,427	1,214,618	1,231,877	1,252,413
Rhode Island	107,167	109,990	112,756	113,403	115,173	115,595	116,788	117,090	118,410	120,362
South Carolina	411,181	418,111	422,972	426,375	435,193	436,657	440,769	451,135	462,550	472,254
South Dakota	78,009	79,716	81,213	83,126	84,773	84,665	84,428	82,444	82,232	81,791
Tennessee	552,574	563,268	567,742	569,833	575,572	577,652	572,909	584,262	589,192	601,552
Texas	2,213,745	2,283,119	2,340,371	2,386,950	2,420,595	2,434,329	2,463,849	2,477,138	2,511,528	2,548,560
Utah	319,748	328,513	333,724	333,377	328,927	326,725	322,408	320,017	319,576	319,374
Vermont	56,798	58,845	60,590	62,583	63,919	64,910	65,566	65,359	65,116	65,131
Virginia	685,504	706,828	719,251	735,315	753,770	767,898	781,520	787,086	792,590	799,881
Washington	563,285	586,456	602,467	613,184	617,717	622,059	628,998	629,091	642,409	652,077
West Virginia	173,008	174,409	174,600	174,922	173,667	170,930	168,204	166,625	166,170	168,023

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	522,855	534,453	545,215	557,344	563,471	565,538	564,587	558,563	555,711	553,763
Wyoming	50,139	51,810	53,946	55,739	56,968	56,693	56,592	56,595	56,979	57,436
Puerto Rico	429,464	430,880	428,065	423,338	417,141	408,044	398,586	389,640	384,751	379,500

Science and Engineering Indicators 2018

State Indicators

Individuals 18–24 years old

State	2010	2011	2012	2013	2014	2015	2016
United States	31,142,916	31,466,489	31,760,339	31,872,876	31,797,953	31,507,801	31,179,139
Alabama	479,993	481,675	483,985	484,912	478,688	468,855	459,616
Alaska	75,444	76,374	78,133	80,131	79,164	77,519	75,274
Arizona	636,064	648,466	661,741	667,771	672,301	671,833	672,268
Arkansas	285,562	289,012	290,119	290,019	288,759	285,507	281,738
California	3,934,016	3,975,732	4,015,379	4,013,829	3,987,645	3,923,647	3,848,787
Colorado	491,414	499,709	507,533	515,465	522,183	530,067	534,131
Connecticut	331,355	337,340	340,718	345,534	350,400	352,240	352,024
Delaware	91,057	92,170	92,920	91,718	89,344	86,989	85,584
District of Columbia	86,291	84,527	83,136	81,783	80,615	80,824	80,141
Florida	1,745,479	1,774,229	1,788,029	1,789,014	1,780,571	1,759,078	1,739,623
Georgia	975,587	992,510	1,013,408	1,012,603	1,014,071	1,011,112	1,005,386
Hawaii	131,324	132,577	133,686	134,563	133,899	132,282	128,771
Idaho	154,398	155,075	155,514	155,836	156,570	155,392	156,563
Illinois	1,247,611	1,250,030	1,255,592	1,258,145	1,250,294	1,234,068	1,214,511
Indiana	651,642	658,360	665,163	671,014	672,718	667,571	661,254
Iowa	306,720	311,956	316,088	321,082	323,807	323,354	322,097
Kansas	289,077	290,697	295,939	298,732	300,356	300,185	297,133
Kentucky	415,967	421,402	426,848	431,402	430,140	425,590	419,965
Louisiana	475,164	474,938	475,885	473,553	465,434	454,825	442,533
Maine	116,004	116,384	115,813	114,126	112,726	111,064	110,283
Maryland	559,387	566,867	566,454	565,328	561,271	553,904	546,861
Massachusetts	685,162	691,504	694,516	699,665	703,756	703,202	704,251
Michigan	976,443	990,710	1,005,400	1,011,418	1,010,334	993,580	975,645

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	503,045	505,465	507,145	508,420	509,041	507,574	507,542
Mississippi	305,847	308,450	311,197	313,833	309,939	301,878	295,917
Missouri	589,939	591,724	595,014	597,032	594,345	587,595	578,691
Montana	95,084	96,806	98,645	99,772	100,073	99,966	99,302
Nebraska	182,980	184,521	186,555	188,493	190,999	191,916	192,718
Nevada	248,824	249,866	253,090	253,782	253,464	251,065	250,225
New Hampshire	123,586	125,349	126,377	127,427	129,162	128,723	127,516
New Jersey	770,272	780,439	788,209	794,391	797,635	792,759	786,743
New Mexico	204,791	207,808	210,086	210,152	207,757	203,527	200,362
New York	1,985,556	1,999,000	2,003,302	1,997,415	1,978,274	1,940,521	1,905,051
North Carolina	941,591	950,232	961,429	968,825	966,091	967,191	966,234
North Dakota	81,236	83,582	87,441	92,044	93,290	94,232	91,112
Ohio	1,103,158	1,109,511	1,113,010	1,111,766	1,103,659	1,088,191	1,075,485
Oklahoma	381,746	384,554	389,938	392,971	391,661	388,745	383,081
Oregon	359,062	362,531	366,194	366,135	366,523	365,371	365,578
Pennsylvania	1,263,088	1,269,277	1,265,858	1,253,265	1,232,175	1,206,557	1,187,598
Rhode Island	120,337	120,763	120,376	118,075	116,663	115,528	114,376
South Carolina	477,606	481,259	485,037	484,374	480,047	473,993	468,536
South Dakota	81,845	82,851	84,015	84,664	84,904	84,585	84,605
Tennessee	607,665	614,831	627,051	630,451	629,044	624,040	617,867
Texas	2,583,963	2,628,905	2,678,577	2,717,025	2,750,113	2,767,496	2,767,722
Utah	318,444	321,461	327,274	333,859	335,310	339,370	343,283
Vermont	65,244	66,154	66,563	67,385	67,932	68,160	67,743
Virginia	804,674	813,756	820,152	825,017	824,224	818,193	812,207
Washington	650,546	659,963	664,983	665,408	666,192	662,656	661,194
West Virginia	169,432	171,014	172,069	172,352	170,672	165,711	161,635

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	549,958	553,004	558,339	563,092	565,759	565,271	561,861
Wyoming	56,354	56,521	58,191	59,107	57,871	56,683	55,188
Puerto Rico	375,882	374,648	372,223	368,701	360,088	347,616	335,328

Science and Engineering Indicators 2018

State Indicators

S-20 Science and Engineering Degrees as a Percentage of Higher Education Degrees Conferred

Description

This indicator represents the extent to which a state's higher education degree awards are concentrated in S&E fields. S&E fields include the physical, life, earth, ocean, atmospheric, computer, and social sciences; mathematics; engineering; and psychology. They do not include medical fields or technologies. Counts of both S&E degrees and higher education degrees conferred include bachelor's, master's, and doctoral degrees; associate's degrees and professional degrees are not included.

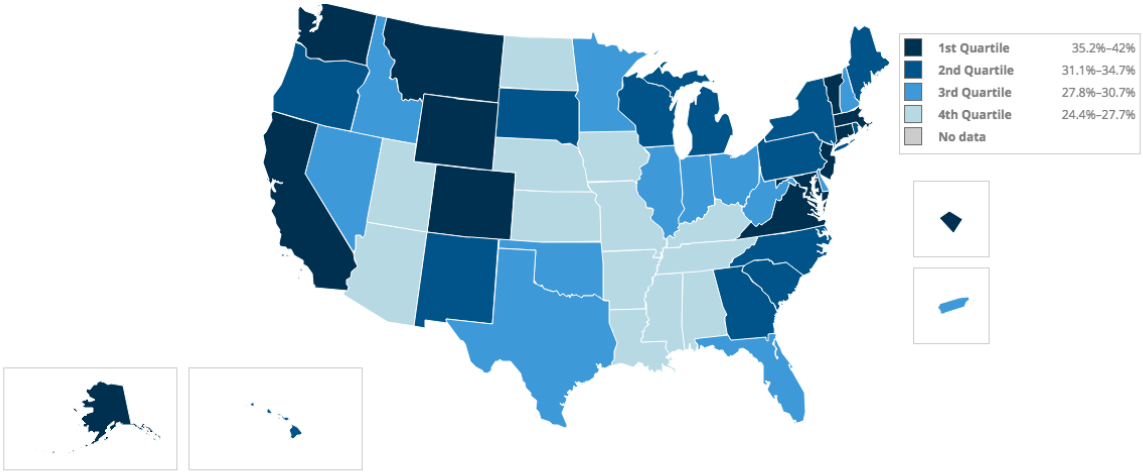
The number of degrees awarded is an actual count provided by the National Center for Education Statistics and includes degrees from both public and private institutions. Degree data reflect the location of the degree-granting institution, not the state where degree-earning students permanently reside. Student mobility after graduation is not accounted for, which may make this indicator less meaningful in predicting the qualifications of a state's future technical workforce. The year indicates the end date of the academic year. For example, data for 2015 represent degrees conferred during the 2014–15 academic year.

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

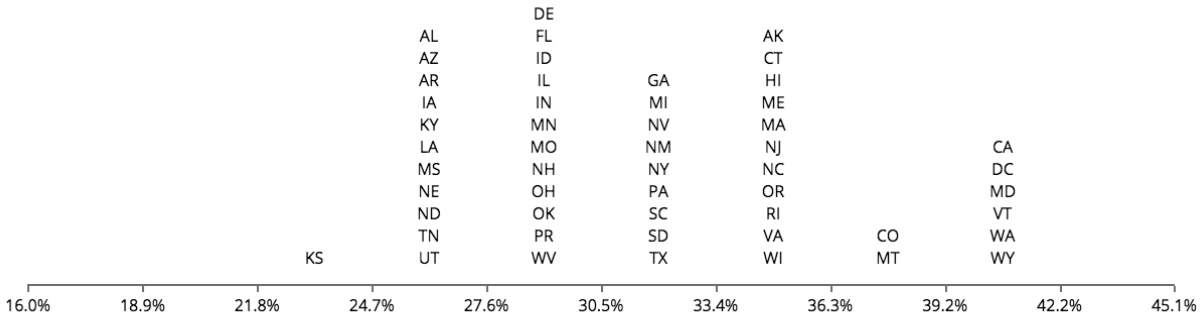
State Indicators

S-20 Science and Engineering Degrees as a Percentage of Higher Education Degrees Conferred

2016



Distribution of states across indicator values, 2016



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

State Indicators

Science and Engineering Degrees as a Percentage of Higher Education Degrees Conferred

(Percent)

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	30.1	29.5	29.8	30.0	30.3	30.8	31.0	30.7	30.5	29.9
Alabama	24.9	24.4	25.2	25.1	24.9	25.4	25.7	25.1	25.3	24.7
Alaska	32.6	31.1	31.3	29.1	32.6	30.5	33.6	33.8	35.2	30.7
Arizona	25.3	20.6	27.5	26.9	24.3	25.2	23.8	22.3	22.0	19.3
Arkansas	20.8	22.3	22.4	22.5	23.1	23.6	24.7	25.2	24.4	24.5
California	37.3	35.0	35.2	37.1	37.1	38.0	38.4	37.0	38.1	37.4
Colorado	37.2	37.8	37.8	38.4	40.1	40.2	39.8	39.9	39.4	38.7
Connecticut	30.3	30.2	30.4	31.3	33.1	33.6	33.2	32.7	32.5	31.1
Delaware	33.7	37.9	36.5	35.3	34.2	32.7	33.0	34.1	30.2	30.9
District of Columbia	40.2	39.4	40.4	40.5	40.5	41.8	42.1	41.4	41.6	40.8
Florida	25.4	25.7	25.2	25.3	26.2	26.6	27.3	26.4	26.1	25.8
Georgia	27.4	27.4	27.1	26.6	27.1	27.5	28.1	27.4	28.0	28.4
Hawaii	32.2	32.1	32.0	29.9	29.3	30.4	30.3	31.3	32.9	31.6
Idaho	28.3	28.8	27.2	27.7	29.2	30.6	30.3	29.6	29.0	28.5
Illinois	28.8	27.5	26.7	26.9	26.7	27.0	27.0	27.2	27.2	26.6
Indiana	29.2	29.5	30.4	29.9	29.7	29.5	30.2	29.6	28.8	27.7
Iowa	27.3	27.3	27.9	28.2	28.9	29.6	29.9	29.8	29.4	28.7
Kansas	27.3	26.4	27.0	26.0	26.3	26.8	26.3	26.4	26.6	26.7
Kentucky	23.5	23.4	23.6	23.4	25.0	25.6	25.2	25.6	25.0	25.1
Louisiana	24.5	23.9	25.1	25.0	26.3	27.8	28.6	28.5	28.1	27.5
Maine	31.2	30.6	30.4	32.3	31.9	31.2	33.0	32.5	33.5	33.5
Maryland	35.9	36.2	35.6	35.1	34.5	35.8	36.2	36.7	35.8	36.0
Massachusetts	33.6	33.5	33.1	32.3	32.1	33.1	34.0	32.8	32.9	32.5

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Michigan	29.6	29.3	29.6	29.0	30.0	30.1	30.5	29.7	29.3	28.1
Minnesota	28.2	29.5	28.5	28.5	29.7	30.4	30.3	30.9	30.1	29.9
Mississippi	22.6	23.6	22.9	24.9	25.4	26.9	26.6	24.9	24.0	23.6
Missouri	23.7	24.7	25.1	24.2	24.0	26.3	26.6	26.5	26.5	25.4
Montana	30.9	29.3	30.5	30.8	31.6	32.6	34.2	37.3	35.4	35.6
Nebraska	22.4	23.0	22.6	23.6	23.5	23.0	24.9	24.4	24.0	21.8
Nevada	23.9	24.9	22.6	23.3	23.7	26.1	26.5	25.8	27.2	26.5
New Hampshire	30.6	29.1	29.2	30.1	30.5	31.1	29.4	30.2	31.4	31.7
New Jersey	36.9	36.0	34.6	35.0	35.7	36.0	36.9	37.2	37.3	37.6
New Mexico	32.6	32.4	30.5	31.6	31.6	31.8	32.3	31.2	29.8	29.8
New York	31.1	30.4	29.9	29.7	30.6	30.4	30.1	30.2	29.6	29.5
North Carolina	32.2	31.7	32.2	32.6	34.2	34.5	34.9	34.2	33.6	32.4
North Dakota	28.1	26.2	26.3	25.7	26.3	28.0	27.8	28.7	28.4	28.1
Ohio	26.9	26.7	26.8	27.4	27.6	28.2	28.4	28.5	28.1	27.0
Oklahoma	24.6	24.6	24.1	24.8	25.5	25.7	26.7	28.1	26.6	27.3
Oregon	29.9	30.9	32.3	33.4	34.6	34.9	34.7	34.3	34.4	34.4
Pennsylvania	30.5	29.7	29.7	29.8	29.8	30.6	30.8	30.7	30.2	30.0
Rhode Island	25.5	27.4	26.6	26.1	26.3	27.9	29.2	27.6	27.9	27.7
South Carolina	25.8	26.5	28.2	27.7	29.1	29.1	29.6	29.7	29.1	28.9
South Dakota	30.8	32.1	31.1	31.3	33.5	35.2	34.6	36.5	35.8	34.3
Tennessee	27.1	27.5	27.8	27.5	27.8	28.3	28.3	28.0	27.6	27.2
Texas	26.5	25.6	28.0	28.0	28.2	28.4	28.3	27.9	28.3	27.4
Utah	34.3	33.1	33.5	33.5	34.6	33.6	34.1	34.0	33.1	32.0
Vermont	37.1	36.0	36.4	36.6	37.7	36.8	36.4	36.8	36.8	36.6
Virginia	34.3	34.7	34.8	36.0	36.4	36.7	36.1	36.4	35.1	35.1
Washington	32.4	31.5	30.4	30.9	31.2	30.8	30.4	32.8	31.4	30.6

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
West Virginia	20.7	21.9	21.8	21.3	23.2	23.6	25.4	24.3	23.5	23.8
Wisconsin	30.2	29.4	29.3	30.4	30.4	30.2	29.7	29.8	29.6	28.8
Wyoming	30.5	37.0	37.1	36.6	40.5	41.6	42.3	45.1	42.0	38.9
Puerto Rico	25.5	23.6	24.8	24.2	24.0	25.7	26.1	27.5	28.0	26.1

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

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

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Science and Engineering Degrees as a Percentage of Higher Education Degrees Conferred

(Percent)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	29.6	29.6	29.4	29.9	29.8	29.7	29.2	28.9	28.8	28.7
Alabama	25.2	25.4	24.7	23.8	24.1	25.0	25.4	25.8	24.4	25.0
Alaska	30.4	34.1	30.6	32.1	34.0	32.1	33.0	32.1	33.8	35.4
Arizona	16.7	16.3	17.6	19.7	19.4	18.3	16.5	16.0	16.4	17.8
Arkansas	23.7	23.6	24.3	24.5	23.7	23.1	22.1	21.6	21.6	21.1
California	37.0	37.2	36.9	37.5	37.5	37.9	38.1	37.8	37.3	37.2
Colorado	38.5	38.2	38.7	38.1	38.0	36.8	35.4	33.8	34.5	33.1
Connecticut	29.1	30.9	30.6	31.2	30.9	30.9	30.5	30.9	31.9	33.1
Delaware	31.0	30.4	30.4	28.9	28.6	28.9	28.6	28.2	28.5	27.7
District of Columbia	41.1	43.0	43.0	42.8	40.8	40.9	40.6	38.5	38.8	37.7
Florida	25.5	25.3	25.3	26.1	26.8	26.6	26.6	26.0	26.0	25.9
Georgia	28.8	29.6	29.3	30.9	30.7	29.4	28.9	28.9	28.3	27.4
Hawaii	32.9	33.0	32.5	30.8	32.7	33.2	32.2	32.4	33.1	33.8
Idaho	30.7	30.2	29.0	28.8	27.7	26.3	27.7	27.3	27.2	25.9
Illinois	26.7	26.8	26.2	27.4	27.2	26.8	26.0	25.6	26.0	25.9
Indiana	27.4	26.9	26.5	26.7	26.4	27.2	26.0	26.1	25.5	24.5
Iowa	28.5	28.1	27.7	28.9	29.0	28.6	27.8	27.4	27.0	27.3
Kansas	27.1	27.3	26.2	26.3	26.3	26.9	25.2	25.0	24.6	24.2
Kentucky	24.4	24.3	24.6	23.9	24.2	24.4	24.2	24.0	23.7	23.1
Louisiana	26.9	26.5	26.8	27.1	26.8	27.4	27.3	27.2	26.9	25.9
Maine	33.3	33.6	32.2	33.8	31.9	31.1	31.9	31.1	32.2	31.5
Maryland	36.2	36.5	36.6	37.4	38.4	38.8	38.2	37.5	37.3	37.2
Massachusetts	32.6	32.4	32.5	32.6	32.7	33.2	32.6	32.4	32.2	32.0

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	27.5	27.3	27.0	28.4	28.6	28.4	28.2	28.3	29.1	29.4
Minnesota	28.2	28.6	28.8	28.4	27.7	28.0	27.1	26.1	26.5	26.5
Mississippi	23.3	23.3	22.8	21.7	23.1	22.5	22.6	23.2	23.0	23.1
Missouri	25.2	25.6	25.6	25.3	25.2	24.6	23.7	23.6	23.9	22.7
Montana	34.5	34.3	33.3	36.7	35.0	35.1	34.6	35.2	34.3	35.0
Nebraska	23.6	22.8	21.8	22.1	22.5	23.4	23.6	23.6	24.0	24.1
Nevada	25.5	23.7	24.3	25.3	28.2	26.8	27.8	26.4	27.5	27.1
New Hampshire	31.9	30.9	30.4	31.3	31.6	30.8	30.6	29.5	29.8	29.1
New Jersey	37.4	36.7	36.1	36.6	36.3	34.4	33.9	33.5	33.1	33.4
New Mexico	29.7	29.7	28.9	29.3	29.4	29.3	29.4	29.1	27.9	29.5
New York	29.2	29.6	29.0	29.4	28.7	29.2	28.3	27.8	28.0	28.1
North Carolina	31.8	32.1	32.5	32.2	32.6	31.9	30.8	31.4	31.0	30.7
North Dakota	26.2	25.0	25.7	27.4	25.0	23.8	22.4	23.3	23.0	22.6
Ohio	26.6	26.1	25.6	25.9	26.0	25.8	25.5	25.8	25.3	25.5
Oklahoma	28.0	27.3	26.8	26.0	27.7	26.0	25.2	25.2	24.3	24.6
Oregon	33.6	33.7	33.4	32.4	33.7	33.2	33.2	33.0	32.8	32.1
Pennsylvania	29.3	29.1	29.0	30.0	29.5	29.4	29.2	28.6	29.1	28.8
Rhode Island	28.1	27.0	27.0	29.5	30.5	29.7	31.0	28.3	29.0	28.9
South Carolina	28.5	28.6	28.4	28.4	27.7	28.0	27.9	27.5	27.2	27.3
South Dakota	32.7	33.1	32.3	32.7	32.8	32.3	33.2	31.8	31.8	30.7
Tennessee	25.5	24.6	24.9	25.6	25.6	24.7	24.1	23.8	24.3	23.7
Texas	27.1	27.3	26.6	27.9	28.0	27.9	27.6	27.2	27.2	26.8
Utah	31.1	30.0	31.3	32.5	33.2	33.0	32.2	33.1	31.8	31.9
Vermont	35.1	35.2	35.1	34.2	36.4	37.8	37.7	38.8	38.1	39.1
Virginia	34.9	35.2	35.1	34.9	34.4	34.5	34.2	33.5	33.7	34.0
Washington	30.2	31.5	32.1	32.4	32.0	33.0	32.8	33.5	32.9	32.9

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	24.7	24.0	23.9	23.9	23.2	23.5	23.0	22.2	24.0	23.9
Wisconsin	29.1	28.7	28.3	29.7	29.1	29.9	30.1	30.2	29.6	29.5
Wyoming	40.5	38.5	38.3	37.0	38.1	34.4	37.5	37.3	37.3	37.1
Puerto Rico	26.2	27.4	25.9	27.4	24.8	24.0	23.5	22.6	23.0	23.9

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

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

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Science and Engineering Degrees as a Percentage of Higher Education Degrees Conferred

(Percent)

State	2010	2011	2012	2013	2014	2015	2016
United States	28.8	29.2	29.9	30.5	31.1	31.7	32.2
Alabama	23.9	25.0	25.5	24.5	24.8	24.7	24.9
Alaska	37.0	36.7	34.8	35.2	35.2	35.5	36.2
Arizona	18.7	19.4	21.9	24.0	25.7	24.3	24.8
Arkansas	22.0	22.5	22.8	23.2	23.9	24.0	25.4
California	37.3	38.1	39.0	39.3	39.3	39.5	40.6
Colorado	33.2	33.8	35.4	35.4	36.6	36.7	37.2
Connecticut	33.2	32.9	33.4	33.1	33.6	34.3	35.9
Delaware	27.0	28.6	28.7	29.6	30.6	31.4	29.9
District of Columbia	39.2	38.8	39.6	40.5	40.8	40.3	39.7
Florida	26.4	26.6	27.5	28.3	28.5	29.3	30.1
Georgia	26.7	27.3	28.3	29.5	31.0	31.1	31.7
Hawaii	33.2	32.8	32.6	35.0	32.1	35.5	34.7
Idaho	26.0	26.6	27.2	29.3	29.6	29.7	29.6
Illinois	25.6	26.1	26.6	26.7	27.3	28.4	29.3
Indiana	24.9	26.6	27.4	27.5	28.4	29.7	29.8
Iowa	30.3	28.3	27.2	26.5	25.8	26.0	26.2
Kansas	23.5	22.6	23.8	23.3	23.9	24.7	24.4
Kentucky	22.6	23.0	24.1	24.5	24.7	24.9	25.2
Louisiana	25.7	26.3	26.4	27.1	26.9	27.8	27.6
Maine	32.5	33.8	33.2	32.2	32.9	34.0	33.8
Maryland	36.8	37.1	37.8	38.9	39.5	40.7	40.8
Massachusetts	32.0	32.1	33.0	33.7	34.4	35.3	35.8

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	29.5	29.7	30.5	31.0	32.0	32.2	33.1
Minnesota	26.6	27.6	29.1	29.1	29.3	28.9	29.1
Mississippi	23.6	23.3	24.5	23.9	25.4	25.6	24.8
Missouri	22.6	22.8	23.2	25.0	24.8	26.6	27.7
Montana	32.7	33.9	33.3	34.9	36.9	37.0	36.7
Nebraska	24.5	24.1	24.3	25.5	26.3	26.0	26.9
Nevada	27.1	27.8	28.6	29.2	30.1	30.8	30.7
New Hampshire	29.9	30.2	30.4	30.8	29.7	29.3	28.7
New Jersey	33.8	33.0	33.2	34.1	34.5	35.0	36.1
New Mexico	29.1	29.7	30.9	30.7	31.9	31.0	32.4
New York	28.7	29.4	29.8	30.7	31.0	32.4	33.0
North Carolina	30.6	31.4	32.1	32.6	33.1	33.9	34.7
North Dakota	23.5	23.6	25.2	25.5	25.2	27.7	27.0
Ohio	25.7	26.3	26.8	26.7	27.7	28.5	29.5
Oklahoma	23.9	24.7	26.2	26.0	25.6	26.3	27.8
Oregon	32.0	32.1	33.5	34.1	34.8	33.4	33.6
Pennsylvania	28.8	29.3	29.7	31.0	32.1	32.4	32.6
Rhode Island	29.2	29.7	30.7	31.4	32.6	32.8	33.9
South Carolina	26.8	27.9	28.5	29.6	30.7	31.2	31.1
South Dakota	32.1	31.6	31.5	31.2	31.7	32.2	32.0
Tennessee	23.6	23.6	24.6	24.1	24.5	24.8	25.1
Texas	26.8	27.7	27.6	28.3	28.7	29.8	30.7
Utah	30.7	30.1	28.7	27.5	27.1	26.8	25.6
Vermont	40.3	39.2	40.2	41.4	39.4	40.3	40.3
Virginia	33.3	33.0	33.8	34.3	34.9	35.5	35.2
Washington	33.6	33.8	35.4	37.9	38.8	39.4	40.2

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	24.4	26.5	27.2	29.1	28.8	28.9	29.8
Wisconsin	29.5	29.9	30.2	31.2	32.9	33.1	33.5
Wyoming	38.2	40.8	39.5	39.7	42.1	39.0	42.0
Puerto Rico	24.5	24.5	26.0	26.0	28.3	28.2	29.1

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

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

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

All higher education degrees

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	1,425,375	1,485,845	1,545,006	1,592,457	1,615,410	1,618,377	1,632,310	1,654,833	1,677,363	1,704,944
Alabama	21,923	24,139	25,546	26,567	27,389	26,345	27,114	28,687	27,222	27,563
Alaska	1,375	1,452	1,494	1,633	1,842	2,008	1,995	2,009	2,031	1,876
Arizona	19,887	26,194	20,211	22,212	25,201	27,051	27,920	30,258	33,238	36,031
Arkansas	9,318	9,511	10,038	10,422	10,706	10,835	11,239	11,577	11,572	11,647
California	137,935	139,904	148,071	153,400	154,846	151,478	151,711	152,700	154,252	158,854
Colorado	23,161	23,607	25,003	26,967	27,088	27,813	27,416	28,325	29,223	29,570
Connecticut	21,190	21,727	22,377	22,336	21,447	21,284	21,011	21,300	21,603	21,933
Delaware	4,367	4,856	5,089	5,154	5,199	5,670	5,739	5,660	5,981	6,174
District of Columbia	13,124	13,582	14,126	14,716	14,702	15,107	15,867	15,874	15,815	15,143
Florida	47,521	51,445	54,268	57,848	59,705	61,280	63,284	65,472	66,879	67,924
Georgia	28,629	29,438	31,395	34,247	35,422	35,887	37,602	37,957	40,977	40,324
Hawaii	4,841	4,939	5,160	5,715	5,836	6,174	6,419	6,533	6,178	6,496
Idaho	4,049	3,990	4,526	4,993	5,308	5,392	5,686	5,656	5,719	5,885
Illinois	71,412	72,869	77,554	76,596	78,964	78,983	79,712	80,308	80,593	82,390
Indiana	36,087	36,767	38,544	39,441	38,834	39,002	39,319	39,188	39,821	39,522
Iowa	19,739	20,858	21,229	21,798	22,023	21,585	21,772	21,910	21,780	22,538
Kansas	16,184	16,935	18,094	18,894	19,944	19,808	20,246	20,074	19,293	19,840
Kentucky	16,226	17,265	18,231	18,919	19,058	19,186	19,574	19,638	20,160	20,800
Louisiana	20,303	20,826	21,643	22,976	23,439	23,765	23,733	23,565	24,730	25,121
Maine	5,709	6,114	6,719	6,933	6,916	6,890	6,572	6,686	6,600	6,777
Maryland	26,795	27,947	29,783	30,463	30,813	30,735	31,688	32,362	32,865	33,566
Massachusetts	63,508	65,673	67,047	64,238	65,324	63,838	65,400	66,658	66,932	68,052
Michigan	57,038	59,839	60,712	62,168	61,882	61,325	61,653	62,510	63,532	63,768

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	27,967	28,993	30,043	30,741	31,153	30,521	30,634	29,990	31,091	31,394
Mississippi	11,471	11,957	12,903	13,648	13,506	13,355	13,045	13,823	14,046	14,549
Missouri	33,865	34,373	36,742	36,961	38,346	38,936	38,806	39,957	41,326	42,259
Montana	4,642	4,681	4,956	5,007	5,217	5,277	5,535	5,706	5,852	5,926
Nebraska	10,620	10,855	11,562	11,767	12,532	12,612	12,547	12,635	13,405	13,331
Nevada	2,816	3,022	3,449	3,913	4,250	4,337	4,448	4,726	5,037	5,110
New Hampshire	8,498	8,981	9,301	9,589	9,566	9,435	9,854	9,772	9,817	9,882
New Jersey	30,960	31,978	33,102	34,260	34,540	33,941	34,043	34,345	34,904	35,779
New Mexico	7,071	7,381	7,934	8,039	8,559	8,695	8,867	8,857	8,945	8,751
New York	131,126	136,863	141,744	144,939	141,347	143,457	144,380	146,260	143,814	143,670
North Carolina	34,164	35,852	38,393	39,696	40,994	40,773	41,576	43,477	43,337	44,671
North Dakota	4,893	5,137	5,406	5,278	5,307	5,152	5,268	5,417	5,425	5,614
Ohio	62,877	65,105	67,298	69,415	69,527	68,613	68,142	69,154	69,141	69,435
Oklahoma	17,952	18,164	19,207	19,875	21,075	20,649	18,636	20,018	21,607	24,107
Oregon	16,314	16,796	17,804	17,324	17,420	17,324	17,723	17,893	18,332	18,711
Pennsylvania	77,429	80,009	83,460	85,052	85,543	85,133	83,592	84,839	86,701	87,162
Rhode Island	10,774	11,407	11,531	11,735	11,538	11,430	11,089	10,558	10,500	10,764
South Carolina	17,385	18,555	18,501	19,852	20,110	19,976	19,889	20,179	20,053	20,713
South Dakota	4,573	4,622	5,057	5,352	5,384	5,482	5,757	5,512	5,484	5,475
Tennessee	23,025	23,411	24,807	26,091	26,388	27,305	27,542	28,765	29,290	29,837
Texas	80,787	86,210	86,543	91,031	93,868	95,515	96,156	96,824	98,239	99,529
Utah	13,747	14,148	14,944	15,905	17,009	17,524	18,498	18,920	19,875	20,822
Vermont	5,578	5,667	5,624	5,863	5,907	5,736	5,847	5,527	6,027	6,218
Virginia	35,117	37,481	39,622	41,181	41,494	42,026	42,559	42,269	42,115	42,210
Washington	24,123	24,895	26,250	27,973	29,042	30,145	31,320	30,504	31,364	30,800
West Virginia	9,282	9,350	10,219	10,621	11,204	11,083	10,885	10,548	11,010	11,066

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	32,271	33,192	34,567	34,846	34,626	34,213	34,466	34,830	34,951	35,428
Wyoming	2,065	2,012	2,181	2,248	2,324	2,236	2,129	2,124	2,157	2,243
Puerto Rico	13,291	14,468	14,591	15,207	15,286	15,456	15,736	15,803	15,798	16,968

Science and Engineering Indicators 2018

State Indicators

All higher education degrees

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	1,759,707	1,776,705	1,838,816	1,927,969	2,028,843	2,088,220	2,158,596	2,213,060	2,273,840	2,346,231
Alabama	29,808	29,377	29,104	29,470	30,918	32,091	32,741	32,308	34,695	35,556
Alaska	1,901	1,771	1,828	1,905	2,010	2,107	2,176	2,261	2,219	2,267
Arizona	40,177	40,674	42,959	44,883	54,710	60,722	69,375	76,537	78,374	84,790
Arkansas	11,936	12,058	12,740	13,167	13,612	14,308	14,662	14,954	15,319	16,089
California	166,555	170,004	179,143	185,113	195,717	201,303	207,268	210,503	220,265	223,574
Colorado	30,457	30,362	31,651	33,619	35,369	37,056	40,278	41,606	42,219	42,885
Connecticut	23,703	22,459	22,912	24,934	25,914	26,359	27,331	27,753	28,290	29,078
Delaware	6,238	6,116	6,583	7,054	7,174	7,455	7,747	7,642	7,788	8,073
District of Columbia	15,503	15,988	16,483	16,924	18,459	18,325	20,438	20,485	21,398	22,490
Florida	71,204	74,162	78,913	82,329	89,853	92,798	96,577	102,592	107,291	111,619
Georgia	40,346	40,238	43,090	44,936	51,578	49,611	49,938	51,006	53,690	56,716
Hawaii	6,687	6,461	6,245	6,605	7,131	7,066	7,529	7,368	7,683	7,624
Idaho	5,943	5,809	6,245	7,593	7,263	9,057	9,613	9,766	9,644	10,816
Illinois	85,025	86,972	89,005	92,850	95,160	103,154	108,976	111,586	112,679	112,635
Indiana	41,655	41,533	44,058	45,934	48,348	49,048	50,859	51,837	52,740	54,032
Iowa	23,165	22,762	23,845	24,488	24,747	25,774	26,669	27,810	30,411	33,315
Kansas	20,132	20,705	20,728	22,294	23,084	22,801	23,555	24,004	24,347	24,771
Kentucky	20,865	20,615	21,697	22,088	23,857	24,937	26,057	26,979	27,360	28,070
Louisiana	26,040	26,026	26,339	27,140	27,874	28,527	26,575	28,142	27,235	27,698
Maine	6,916	6,659	7,151	7,563	7,644	8,188	8,238	8,573	8,820	8,717
Maryland	33,765	34,854	35,892	37,578	39,090	40,404	41,510	42,275	43,300	44,404
Massachusetts	69,410	70,397	71,323	74,044	75,893	76,108	77,949	79,047	82,171	83,467
Michigan	66,978	68,248	70,825	74,299	76,151	74,977	74,841	75,634	76,145	77,551

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	31,730	32,091	33,763	35,872	39,572	42,532	45,686	47,960	50,376	52,310
Mississippi	14,598	14,904	15,619	15,554	15,688	15,931	16,011	16,438	16,646	17,023
Missouri	43,740	44,393	46,921	50,029	51,486	52,858	53,738	54,712	55,117	59,469
Montana	6,087	6,049	6,340	6,292	6,536	6,416	6,333	6,509	6,449	6,559
Nebraska	14,008	14,309	14,183	14,992	15,451	16,427	16,517	16,333	16,863	17,411
Nevada	5,345	5,395	5,489	5,997	6,260	6,846	8,118	7,816	8,862	8,977
New Hampshire	10,048	9,514	9,475	9,839	10,572	10,751	10,963	11,239	11,513	12,100
New Jersey	37,278	37,760	39,686	41,796	43,781	45,515	46,061	46,708	48,186	49,544
New Mexico	8,814	8,505	8,456	9,080	9,570	9,817	10,048	10,091	10,264	10,214
New York	146,966	151,048	153,933	168,161	175,432	176,091	181,358	184,350	188,267	193,813
North Carolina	46,045	45,316	46,562	48,553	51,400	52,192	53,738	55,676	58,489	60,854
North Dakota	5,798	5,597	5,777	5,900	6,177	6,454	6,805	7,042	7,101	7,128
Ohio	69,672	71,458	73,754	76,620	78,305	80,402	82,432	82,655	83,777	84,740
Oklahoma	21,374	21,668	21,896	22,153	23,433	24,398	24,726	24,740	25,062	25,995
Oregon	19,647	19,198	19,773	21,722	23,045	23,492	24,144	24,514	24,454	24,858
Pennsylvania	90,553	91,025	94,567	98,861	104,498	107,231	110,771	113,478	115,501	119,806
Rhode Island	10,716	10,646	11,359	11,691	12,006	12,277	12,526	12,724	13,068	13,269
South Carolina	20,859	21,182	21,367	22,585	22,936	24,104	24,674	25,079	26,040	26,666
South Dakota	5,722	5,489	5,548	5,679	6,159	6,265	6,198	6,415	6,453	6,506
Tennessee	31,482	31,664	32,205	33,224	34,121	35,436	36,299	37,343	37,687	40,553
Texas	103,293	103,523	107,579	113,170	118,857	124,151	127,861	132,192	136,090	142,369
Utah	20,194	20,349	21,502	22,535	23,485	24,341	24,686	24,946	25,452	25,777
Vermont	6,350	6,116	6,110	6,038	6,177	6,638	6,827	7,112	7,706	8,031
Virginia	44,819	44,815	44,757	47,004	48,740	51,128	53,708	55,140	57,827	60,844
Washington	31,836	31,495	32,312	34,486	36,176	37,457	37,975	38,570	38,999	39,935
West Virginia	11,144	11,225	11,413	11,974	12,099	12,522	13,265	14,635	15,606	15,787

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	35,316	36,705	37,370	38,666	41,621	40,729	40,914	42,383	42,946	43,622
Wyoming	2,247	2,161	2,155	2,212	2,132	2,202	2,288	2,175	2,299	2,262
Puerto Rico	18,910	18,379	19,434	19,830	20,891	20,845	22,353	22,806	21,993	22,896

Science and Engineering Indicators 2018

State Indicators

All higher education degrees

State	2010	2011	2012	2013	2014	2015	2016
United States	2,424,160	2,530,531	2,630,105	2,682,896	2,718,328	2,749,224	2,802,969
Alabama	37,440	39,535	39,318	42,020	41,358	42,467	43,841
Alaska	2,345	2,509	2,503	2,673	2,792	2,676	2,759
Arizona	92,028	99,123	109,664	105,950	93,806	89,723	87,928
Arkansas	16,929	18,344	19,767	19,834	20,657	21,074	21,604
California	229,641	237,760	243,253	252,421	264,722	268,499	274,860
Colorado	42,735	44,933	47,442	49,290	50,573	50,366	50,597
Connecticut	28,989	29,759	31,172	32,046	32,242	33,125	34,375
Delaware	8,138	8,795	8,793	9,187	9,407	10,280	11,277
District of Columbia	20,810	21,384	22,045	23,078	23,069	23,031	23,093
Florida	115,882	120,806	126,851	129,934	134,085	136,829	138,611
Georgia	60,051	63,407	64,823	66,763	67,192	68,575	70,981
Hawaii	7,324	7,768	8,091	8,195	8,661	8,528	8,524
Idaho	11,255	11,076	11,933	12,538	12,742	12,972	13,429
Illinois	115,670	119,319	121,051	123,044	120,401	118,219	121,537
Indiana	56,774	59,294	61,264	62,807	62,990	63,933	64,141
Iowa	38,486	47,054	53,613	54,481	52,963	51,823	49,427
Kansas	25,362	27,260	28,173	28,521	28,496	28,305	28,572
Kentucky	28,860	29,932	31,520	32,274	32,347	32,579	33,307
Louisiana	27,660	28,663	29,864	30,497	30,566	30,264	30,826
Maine	8,969	9,173	9,642	9,329	9,597	9,549	10,010
Maryland	46,412	48,570	51,207	52,730	53,010	54,227	55,180
Massachusetts	86,987	90,422	93,091	95,482	97,827	98,603	102,716
Michigan	78,389	78,780	80,929	81,309	82,388	82,813	84,071

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	55,115	57,505	57,788	61,149	61,662	62,600	63,937
Mississippi	17,630	18,366	18,828	19,372	19,549	19,887	20,321
Missouri	60,256	62,491	64,730	61,551	62,902	64,122	65,240
Montana	6,465	6,814	6,767	7,022	7,232	7,585	7,325
Nebraska	17,327	18,564	19,764	19,522	19,766	19,764	20,253
Nevada	9,304	9,822	9,916	10,010	10,470	11,043	11,163
New Hampshire	12,754	13,054	13,050	13,566	14,642	17,607	19,519
New Jersey	51,473	52,919	56,681	55,683	57,706	59,246	60,918
New Mexico	10,083	10,681	10,949	11,381	11,928	12,022	12,331
New York	197,524	203,126	206,419	209,000	212,574	213,085	216,790
North Carolina	63,798	66,530	69,518	71,111	73,124	72,099	73,945
North Dakota	7,255	7,385	7,555	7,812	8,156	8,190	8,114
Ohio	86,518	89,564	93,891	92,220	94,106	96,276	97,263
Oklahoma	25,964	26,299	26,816	27,063	27,823	27,805	28,179
Oregon	26,096	27,306	28,981	30,139	31,725	33,546	33,138
Pennsylvania	123,740	127,110	129,486	131,576	132,779	132,779	132,450
Rhode Island	13,600	13,929	14,183	14,382	14,719	14,994	15,374
South Carolina	28,159	29,523	29,610	30,840	30,995	31,680	31,975
South Dakota	6,527	6,840	7,077	7,373	7,246	7,389	7,833
Tennessee	41,492	43,362	45,387	46,961	47,584	47,523	48,562
Texas	148,091	153,355	160,941	165,985	169,787	175,780	183,360
Utah	27,146	30,961	34,081	37,036	39,402	42,317	45,415
Vermont	8,209	8,535	8,821	9,484	8,594	8,557	8,559
Virginia	64,019	69,705	74,557	77,649	80,318	81,260	83,967
Washington	40,975	41,924	42,624	43,102	42,510	43,615	44,099
West Virginia	17,254	19,040	20,482	20,940	22,496	22,722	22,992

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	44,498	45,992	46,984	47,678	47,290	47,819	47,971
Wyoming	2,248	2,407	2,625	2,624	2,595	2,582	2,688
Puerto Rico	22,719	22,970	24,739	25,453	25,925	26,031	26,728

Science and Engineering Indicators 2018

State Indicators

S-21 Science, Engineering, and Health Graduate Students per 1,000 Individuals 25–34 Years Old

Description

This indicator is a relative measure of a state's population with graduate training in science, engineering, and health (SEH) and is defined as the ratio of SEH graduate students to a state's population aged 25–34.

Graduate students are counted based on the state of their university and include state residents, residents of other states, and noncitizens. The numerator includes graduate students at both public and private institutions. The denominator includes all state residents aged 25–34 and was chosen to approximate the age of most graduate students.

Data on SEH graduate students are counts obtained from academic institutions in the United States that offer doctoral or master's degree programs in any SEH field: physical, computer, agricultural, biological, earth, atmospheric, ocean, and social sciences; psychology; mathematics; engineering; and health-related fields. This indicator excludes three new fields (architecture, communication, and family and consumer science) added to the survey in 2007 to preserve comparable trend data. In 2014, previously eligible for-profit institutions were removed from the survey frame to exclude practitioner-oriented graduate programs. The overall impact on graduate student data was minimal, though some state-level estimates were disproportionately affected.

Estimates of the population aged 25–34 are provided by the U.S. Census Bureau based on the 2000 and 2010 Decennial Censuses and are reported by the state of residence. Each year, the Census Bureau utilizes current data on births, deaths, and migration to calculate population change since the most recent decennial census and produces time series of estimates of population. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

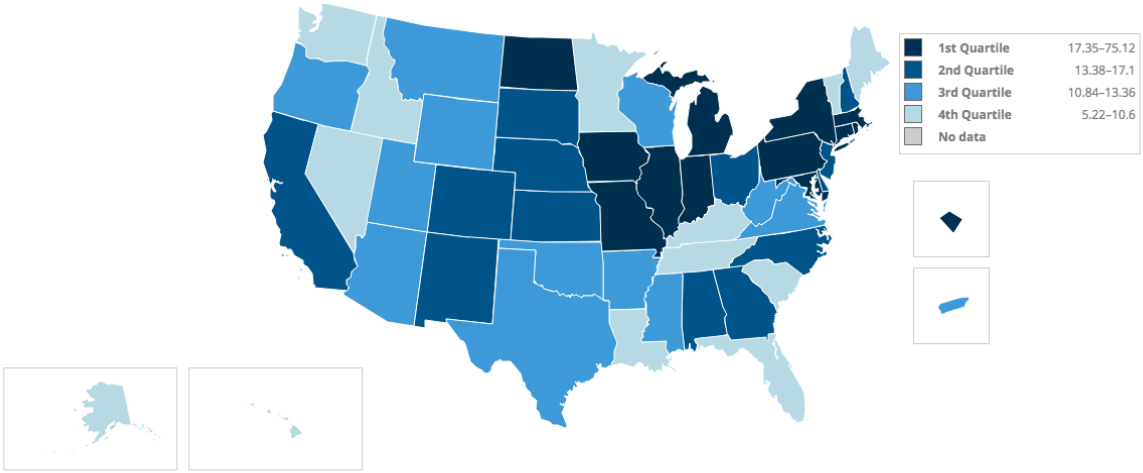
A high value for this indicator may suggest the successful provision of graduate training in SEH fields. Student mobility after graduation is not accounted for, which may make this indicator less meaningful in predicting the qualifications of a state's future technical workforce. A state's value for this indicator may also be high when its higher education system draws a large percentage of out-of-state students, a situation that sometimes occurs in states with small resident populations and the District of Columbia. Small differences in the value of the indicator between states or across years generally are not meaningful.

Data sources: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program.

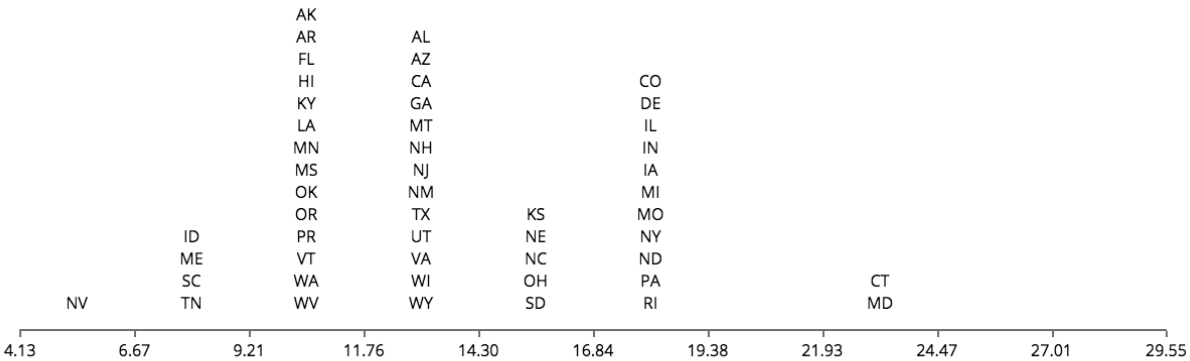
State Indicators

S-21 Science, Engineering, and Health Graduate Students per 1,000 Individuals 25–34 Years Old

2016



Distribution of states across indicator values, 2016



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

State Indicators

Science, Engineering, and Health Graduate Students per 1,000 Individuals 25–34 Years Old

(Students)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	12.23	12.74	13.55	14.26	14.44	14.64	14.98	15.04	15.07	14.84
Alabama	11.75	12.18	13.05	13.98	14.22	14.75	14.34	14.48	14.34	12.43
Alaska	7.25	7.61	9.05	9.39	10.21	10.15	10.26	11.00	12.19	11.91
Arizona	9.71	10.05	10.39	10.23	9.69	9.47	9.77	10.61	10.62	10.50
Arkansas	7.62	7.84	7.80	8.65	9.31	9.39	10.27	9.65	10.03	9.87
California	11.66	11.98	12.82	13.99	13.96	14.04	14.16	14.32	14.51	13.82
Colorado	14.71	15.23	16.10	17.94	17.44	15.55	15.91	16.42	16.05	16.81
Connecticut	17.83	20.13	20.74	21.81	22.20	22.48	23.63	26.27	26.43	25.57
Delaware	14.50	15.06	16.09	17.13	17.22	18.16	18.96	17.33	17.54	18.97
District of Columbia	80.22	83.26	87.30	90.59	102.58	103.19	111.08	99.69	101.03	93.41
Florida	9.55	10.30	10.98	11.68	11.72	11.79	12.02	12.15	12.23	12.20
Georgia	7.72	8.12	8.81	9.18	9.12	9.22	9.33	9.72	9.94	9.56
Hawaii	9.31	9.82	11.07	11.64	12.46	12.09	11.69	11.60	12.61	12.73
Idaho	8.97	10.48	11.28	12.90	12.38	12.50	11.19	10.23	10.46	10.38
Illinois	14.75	15.60	16.18	15.71	16.07	16.12	16.79	17.04	17.22	17.02
Indiana	11.19	12.21	12.87	13.04	13.52	14.51	14.82	13.94	14.20	13.97
Iowa	15.00	15.17	15.76	16.63	17.03	16.39	16.73	16.54	17.12	16.31
Kansas	19.72	20.54	21.45	22.01	21.28	20.68	20.32	18.64	19.03	17.93
Kentucky	7.77	9.39	10.65	10.97	10.81	11.47	11.89	10.54	9.80	9.75
Louisiana	11.82	12.58	13.51	14.58	14.81	9.05	12.78	11.73	11.56	11.81
Maine	4.13	4.32	4.57	4.91	4.97	5.11	5.06	5.65	5.77	5.67
Maryland	15.22	15.59	17.45	18.44	19.25	19.71	20.02	20.44	20.61	19.92
Massachusetts	25.64	26.85	29.26	30.63	32.00	33.53	35.14	35.27	34.53	34.01

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	13.12	13.70	14.85	15.73	15.52	15.50	16.04	16.43	16.14	15.78
Minnesota	12.34	12.29	13.30	13.55	16.92	21.62	25.38	25.81	28.08	29.55
Mississippi	8.22	8.36	8.91	8.63	9.88	10.33	9.84	9.42	9.33	9.66
Missouri	11.12	11.55	12.58	13.19	13.69	14.34	15.50	16.04	16.89	13.74
Montana	12.34	13.14	13.87	14.91	14.65	14.66	14.38	13.86	13.37	13.27
Nebraska	13.24	13.38	14.50	15.13	15.24	15.32	15.90	16.18	16.56	16.77
Nevada	5.24	5.63	6.03	6.68	6.72	6.67	6.94	7.15	7.62	7.21
New Hampshire	10.09	10.14	11.32	11.93	12.48	12.80	12.88	13.23	12.94	12.93
New Jersey	10.70	10.83	11.31	11.58	12.02	12.32	12.80	12.84	13.25	13.67
New Mexico	16.68	17.52	16.37	18.09	18.18	17.92	17.24	17.62	17.22	15.98
New York	15.72	16.36	17.08	17.99	18.40	19.52	20.40	20.39	19.93	19.49
North Carolina	10.39	10.71	11.26	11.72	12.13	12.78	13.09	14.10	14.05	13.78
North Dakota	16.11	17.13	17.62	25.19	23.93	25.33	23.82	23.22	25.28	25.59
Ohio	12.77	13.16	14.00	14.73	15.04	15.83	15.26	16.87	16.76	17.10
Oklahoma	9.00	10.64	11.45	11.49	10.98	10.71	10.34	10.96	11.17	10.89
Oregon	9.23	9.53	10.14	10.34	9.87	10.52	10.67	10.75	10.94	10.90
Pennsylvania	14.53	15.06	17.11	18.08	18.52	18.39	18.48	17.82	17.11	17.04
Rhode Island	14.09	13.86	14.67	15.79	16.80	17.34	17.06	17.72	18.08	19.28
South Carolina	6.70	6.88	7.02	7.14	7.06	6.81	7.11	6.97	7.02	7.51
South Dakota	12.40	13.31	13.90	13.62	14.35	13.68	13.91	11.06	11.89	15.35
Tennessee	8.06	8.82	9.29	10.12	9.93	10.22	9.95	9.82	9.86	9.36
Texas	10.64	10.66	11.54	12.36	12.21	12.32	12.14	12.08	12.15	12.27
Utah	13.86	14.21	14.47	15.39	14.48	15.41	15.29	14.20	13.94	13.69
Vermont	9.84	9.66	9.85	10.40	10.53	11.16	11.41	11.95	11.06	11.43
Virginia	13.14	14.27	14.74	15.22	14.95	14.86	15.49	16.00	15.79	15.81
Washington	8.58	8.64	8.99	9.88	9.63	9.84	9.99	9.41	9.31	9.76

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	11.27	11.48	12.76	13.22	13.00	13.04	13.17	13.25	12.75	12.30
Wisconsin	13.59	14.17	14.52	15.31	15.57	15.60	15.52	15.19	14.21	14.19
Wyoming	14.49	15.34	15.85	16.81	16.29	16.36	14.86	13.24	12.84	13.24
Puerto Rico	7.38	7.84	8.34	8.47	8.25	8.94	8.82	8.25	8.24	7.74

Note(s):
The national SEH graduate student total for the United States includes U.S. territories; The national population total for the United States includes Puerto Rico.

Source(s):
National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, data as of February 2018; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

Recommended Citation: National Science Board. 2018. "Science, Engineering, and Health Graduate Students per 1,000 Individuals 25–34 Years Old." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/seh-graduate-students-per-1000-25-34-year-olds

Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

Science, Engineering, and Health Graduate Students per 1,000 Individuals 25–34 Years Old

(Students)

State	2010	2011	2012	2013	2014	2015	2016
United States	14.67	14.38	14.26	14.22	14.77	15.03	14.79
Alabama	12.48	15.21	14.44	14.66	14.01	14.49	13.72
Alaska	11.72	11.48	10.80	10.87	10.53	10.14	9.34
Arizona	11.09	11.60	11.93	11.64	12.15	12.09	12.18
Arkansas	8.64	8.30	8.55	7.97	9.07	10.34	11.58
California	13.56	13.19	12.90	13.19	13.93	14.08	13.41
Colorado	17.00	17.43	16.97	16.88	17.91	17.71	17.10
Connecticut	23.90	20.64	19.69	20.83	21.98	23.64	23.82
Delaware	18.96	18.11	17.92	18.01	18.57	18.35	17.04
District of Columbia	85.17	81.88	78.90	76.30	74.88	80.66	75.12
Florida	12.36	11.71	11.39	11.11	10.71	10.81	10.05
Georgia	9.50	9.92	10.32	10.37	12.47	13.09	13.81
Hawaii	12.55	13.42	12.06	10.98	11.39	10.77	9.83
Idaho	10.84	10.64	9.69	9.27	8.77	8.87	8.87
Illinois	16.47	16.39	16.17	16.28	17.84	18.66	18.60
Indiana	15.33	15.13	15.79	15.69	17.38	17.58	18.17
Iowa	16.65	15.56	14.88	15.22	17.04	17.57	17.87
Kansas	17.01	16.38	15.91	15.65	16.30	15.99	15.57
Kentucky	9.68	9.58	9.42	9.27	10.00	9.82	9.66
Louisiana	11.52	11.10	10.64	11.02	10.94	10.32	9.87
Maine	5.21	5.63	4.68	4.65	7.18	8.00	8.60
Maryland	20.47	19.80	19.04	18.27	22.31	22.85	23.02
Massachusetts	33.79	33.09	33.51	34.74	34.51	33.75	34.40

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	16.94	16.26	16.17	16.59	17.45	17.98	17.95
Minnesota	23.66	23.07	22.29	20.76	9.06	9.53	10.60
Mississippi	10.17	10.24	10.07	9.86	11.53	11.82	11.37
Missouri	12.35	12.14	12.66	13.31	15.98	17.64	17.35
Montana	12.17	11.66	11.41	10.99	11.87	11.36	12.55
Nebraska	17.21	15.37	15.29	16.01	16.07	16.42	16.42
Nevada	6.74	6.01	6.04	5.67	5.64	5.38	5.22
New Hampshire	13.23	12.62	13.43	13.29	14.15	13.92	13.76
New Jersey	12.27	11.48	11.96	11.83	12.68	13.89	13.38
New Mexico	16.01	15.49	15.12	14.63	14.57	14.07	14.00
New York	19.52	19.16	18.60	18.23	19.06	19.25	19.02
North Carolina	14.13	14.45	14.45	14.00	14.62	15.05	14.37
North Dakota	20.50	19.99	19.73	19.13	17.26	16.94	18.47
Ohio	16.81	16.39	16.49	16.18	16.16	16.42	16.20
Oklahoma	11.72	11.92	11.59	11.35	12.84	12.61	11.69
Oregon	10.99	10.63	11.05	11.41	11.29	11.70	11.71
Pennsylvania	16.96	15.92	16.42	16.73	17.97	17.70	18.50
Rhode Island	20.24	19.31	18.96	18.10	17.68	18.66	18.33
South Carolina	7.57	7.90	8.05	8.48	8.54	8.54	8.17
South Dakota	14.89	13.27	13.89	12.96	15.68	15.82	15.08
Tennessee	9.48	9.47	9.57	8.97	8.93	9.06	8.66
Texas	12.59	12.26	12.23	12.28	13.12	13.55	12.97
Utah	12.92	13.78	13.19	13.32	13.41	13.51	13.18
Vermont	11.16	10.41	9.75	8.75	9.52	9.77	9.64
Virginia	15.54	14.98	14.19	13.76	13.64	13.72	13.36
Washington	9.88	9.87	9.85	9.72	10.41	10.20	10.25

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	11.73	11.02	11.10	11.03	11.18	11.39	10.84
Wisconsin	13.97	13.61	13.90	13.45	13.02	12.74	12.91
Wyoming	14.10	14.21	14.27	13.14	13.30	12.92	12.40
Puerto Rico	7.04	6.87	6.23	6.43	10.25	10.66	11.74

Note(s):
The national SEH graduate student total for the United States includes U.S. territories; The national population total for the United States includes Puerto Rico.

Source(s):
National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, data as of February 2018; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

SEH graduate students

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	452,113	471,212	493,522	504,304	504,399	499,640	494,079	487,208	485,627	493,256
Alabama	6,111	6,390	6,568	6,995	6,862	6,761	6,970	7,100	6,914	6,687
Alaska	680	690	787	852	874	891	862	795	748	723
Arizona	7,325	7,468	7,762	7,695	7,661	7,429	7,313	7,231	7,324	7,346
Arkansas	1,915	2,047	2,285	2,647	2,745	2,818	2,751	2,579	2,776	2,627
California	58,093	59,529	61,134	61,979	60,618	59,828	59,215	59,137	59,788	61,818
Colorado	8,489	9,299	9,844	9,996	9,893	9,798	9,719	9,590	9,601	9,406
Connecticut	7,379	7,183	7,358	7,831	7,711	7,630	7,373	7,194	7,403	7,538
Delaware	1,378	1,484	1,612	1,723	1,747	1,755	1,681	1,623	1,645	1,616
District of Columbia	8,393	8,547	9,424	9,717	9,976	9,696	9,340	8,948	8,385	8,445
Florida	13,558	14,769	15,927	17,026	18,017	16,983	17,959	17,970	18,100	19,088
Georgia	8,046	8,722	9,418	9,837	10,526	10,326	9,963	10,026	10,410	10,532
Hawaii	1,981	2,088	2,061	2,176	2,326	2,245	2,127	1,916	1,857	1,753
Idaho	1,524	1,512	1,568	1,701	1,739	1,688	1,543	1,618	1,654	1,649
Illinois	23,720	24,381	25,235	26,068	25,687	25,846	25,989	25,993	25,526	26,400
Indiana	9,551	9,902	10,409	10,727	10,756	10,653	10,342	9,772	9,339	9,475
Iowa	5,472	5,695	5,755	5,951	5,850	5,750	5,682	5,500	5,270	5,303
Kansas	5,270	5,452	5,857	6,053	6,753	6,634	7,077	7,043	6,881	6,749
Kentucky	3,798	3,965	4,252	4,227	4,495	4,758	4,788	4,531	4,352	4,753
Louisiana	5,164	5,838	6,299	6,484	6,746	6,859	6,966	6,642	6,651	6,942
Maine	689	747	854	842	820	900	884	765	727	704
Maryland	9,827	10,241	10,785	11,117	11,477	11,497	11,545	11,379	11,281	11,376
Massachusetts	21,785	22,526	22,760	23,458	24,098	24,427	24,366	23,563	24,392	24,254
Michigan	16,125	16,839	17,751	18,204	18,338	17,964	18,165	17,786	17,558	17,494

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	6,935	7,549	7,764	8,098	7,744	7,656	7,810	7,844	8,097	8,365
Mississippi	2,743	2,833	2,850	3,031	3,122	3,205	3,215	3,161	3,429	2,914
Missouri	7,426	7,473	7,607	7,432	7,843	8,034	7,941	7,883	7,789	7,855
Montana	1,069	1,135	1,300	1,382	1,359	1,341	1,275	1,231	1,290	1,304
Nebraska	2,496	2,750	3,057	3,192	3,164	3,148	3,072	2,855	2,732	2,825
Nevada	1,134	1,279	1,465	1,504	1,602	1,681	1,596	1,627	1,640	1,511
New Hampshire	1,166	1,199	1,257	1,246	1,231	1,284	1,447	1,514	1,445	1,574
New Jersey	11,609	11,722	12,067	12,284	11,781	11,812	11,904	12,040	11,929	12,282
New Mexico	3,068	3,169	3,619	3,831	3,724	3,714	3,528	3,343	3,263	3,675
New York	46,289	46,986	49,535	49,182	47,539	45,648	44,471	44,333	44,544	45,779
North Carolina	9,891	10,277	11,037	10,919	11,572	11,686	12,216	11,907	12,206	12,463
North Dakota	886	931	985	981	999	966	957	1,070	1,171	1,238
Ohio	20,722	21,740	22,024	22,380	22,421	22,043	21,069	19,906	19,432	19,475
Oklahoma	4,552	4,851	5,182	5,241	5,058	4,919	4,756	4,544	4,538	4,373
Oregon	3,851	4,173	4,320	4,423	4,482	4,418	4,245	4,146	3,911	4,254
Pennsylvania	20,823	22,528	23,299	23,455	23,697	23,683	23,449	22,748	22,558	22,401
Rhode Island	2,157	2,141	2,338	2,297	2,234	2,203	1,982	1,814	1,814	1,938
South Carolina	3,675	3,993	4,356	4,400	4,443	4,413	4,227	4,212	3,992	3,890
South Dakota	1,005	1,131	1,186	1,250	1,210	1,286	1,256	1,161	1,120	1,056
Tennessee	6,501	6,723	7,179	7,513	7,793	7,456	7,119	7,575	7,124	6,987
Texas	30,259	31,889	34,586	34,524	32,971	32,270	31,713	31,882	31,755	32,718
Utah	3,802	4,223	4,518	4,699	4,830	4,928	4,766	4,609	4,396	4,477
Vermont	676	684	749	729	751	810	675	655	682	685
Virginia	11,428	11,663	12,066	12,791	12,857	13,541	13,263	13,392	13,323	13,473
Washington	6,576	6,905	6,872	7,014	7,232	7,270	6,942	6,845	6,785	6,806
West Virginia	2,224	2,363	2,565	2,742	2,561	2,756	2,827	2,721	2,869	2,826

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	9,651	10,061	10,318	10,648	10,611	10,259	9,794	9,636	9,197	9,095
Wyoming	851	925	956	998	998	939	865	946	895	873
Puerto Rico	2,366	2,590	2,728	2,743	2,786	3,064	3,022	2,840	3,042	3,379

Science and Engineering Indicators 2018

State Indicators

SEH graduate students

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	493,311	509,607	540,404	567,121	574,463	582,226	597,643	604,815	613,591	611,629
Alabama	7,047	7,176	7,615	8,153	8,302	8,643	8,473	8,596	8,586	7,524
Alaska	645	663	784	811	891	895	921	1,014	1,163	1,171
Arizona	7,212	7,520	7,909	7,894	7,643	7,692	8,190	9,030	9,120	9,019
Arkansas	2,677	2,729	2,715	3,030	3,300	3,383	3,760	3,554	3,721	3,691
California	61,006	62,709	66,994	72,906	72,617	72,578	73,188	74,194	75,839	72,965
Colorado	9,779	10,275	10,931	12,070	11,751	10,378	10,716	11,242	11,248	12,020
Connecticut	8,032	8,801	8,951	9,283	9,277	9,198	9,529	10,578	10,814	10,619
Delaware	1,574	1,596	1,689	1,807	1,842	1,954	2,045	1,876	1,918	2,100
District of Columbia	8,135	8,527	8,960	9,289	10,592	10,605	11,681	10,754	11,325	11,043
Florida	19,874	21,349	22,898	24,568	25,110	25,761	26,713	27,181	27,534	27,679
Georgia	10,033	10,520	11,389	11,823	11,805	11,919	12,248	12,837	13,225	12,798
Hawaii	1,587	1,655	1,869	1,949	2,108	2,092	2,058	2,036	2,273	2,333
Idaho	1,517	1,781	1,945	2,262	2,231	2,315	2,141	2,029	2,134	2,157
Illinois	26,650	27,901	28,774	27,724	28,152	28,030	29,186	29,693	30,267	30,130
Indiana	9,262	9,987	10,452	10,590	10,957	11,775	12,039	11,378	11,664	11,531
Iowa	5,425	5,406	5,566	5,847	5,949	5,749	5,890	5,966	6,312	6,149
Kansas	6,860	7,054	7,355	7,509	7,250	7,001	6,974	6,549	6,867	6,653
Kentucky	4,395	5,231	5,885	6,037	5,969	6,363	6,598	5,883	5,477	5,503
Louisiana	7,068	7,388	7,898	8,527	8,767	5,428	7,159	6,757	6,852	7,247
Maine	647	660	690	734	736	744	728	812	831	817
Maryland	11,364	11,432	12,718	13,384	13,942	14,273	14,528	14,845	15,164	14,938
Massachusetts	23,693	24,367	26,050	26,683	27,291	27,897	28,755	28,739	28,420	28,454
Michigan	17,796	18,191	19,353	20,205	19,622	19,278	19,559	19,687	19,058	18,434

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	8,287	8,196	8,821	8,945	11,144	14,233	16,788	17,505	19,487	20,909
Mississippi	3,124	3,132	3,315	3,204	3,686	3,878	3,680	3,560	3,564	3,726
Missouri	8,190	8,407	9,133	9,563	9,948	10,457	11,411	11,964	12,749	10,551
Montana	1,268	1,331	1,399	1,517	1,521	1,546	1,547	1,558	1,557	1,599
Nebraska	2,947	2,949	3,188	3,340	3,362	3,390	3,550	3,695	3,872	4,035
Nevada	1,616	1,772	1,941	2,201	2,304	2,367	2,554	2,711	2,947	2,799
New Hampshire	1,611	1,592	1,747	1,816	1,862	1,877	1,862	1,900	1,859	1,856
New Jersey	12,699	12,621	13,029	13,176	13,505	13,651	13,972	13,981	14,530	15,091
New Mexico	3,887	4,017	3,787	4,236	4,327	4,344	4,265	4,453	4,417	4,189
New York	43,249	44,276	45,760	47,781	48,293	50,430	52,243	52,300	51,792	51,379
North Carolina	12,597	12,930	13,537	13,991	14,477	15,174	15,602	16,943	17,195	17,053
North Dakota	1,231	1,274	1,290	1,837	1,771	1,882	1,799	1,853	2,090	2,232
Ohio	19,304	19,496	20,484	21,409	21,726	22,725	21,677	23,859	23,659	24,122
Oklahoma	4,044	4,745	5,126	5,138	4,946	4,872	4,791	5,200	5,410	5,426
Oregon	4,333	4,503	4,850	4,972	4,731	5,071	5,218	5,371	5,575	5,672
Pennsylvania	22,540	22,796	25,562	26,854	27,347	27,002	26,993	26,098	25,342	25,539
Rhode Island	1,972	1,899	1,999	2,148	2,272	2,284	2,199	2,249	2,299	2,442
South Carolina	3,744	3,793	3,872	3,944	3,925	3,805	4,018	3,979	4,076	4,408
South Dakota	1,124	1,192	1,244	1,219	1,298	1,256	1,292	1,072	1,183	1,584
Tennessee	6,548	7,062	7,390	8,046	7,941	8,214	8,051	8,006	8,052	7,691
Texas	33,644	33,954	37,169	39,975	39,855	40,612	40,816	41,377	42,490	43,767
Utah	4,538	4,746	4,972	5,455	5,326	5,853	6,052	5,882	5,987	6,032
Vermont	730	697	701	727	722	752	761	798	749	787
Virginia	13,605	14,632	15,010	15,439	15,191	15,139	15,860	16,517	16,603	16,949
Washington	7,196	7,233	7,532	8,235	8,046	8,256	8,555	8,206	8,373	9,016
West Virginia	2,562	2,555	2,831	2,940	2,884	2,903	2,920	2,926	2,811	2,719

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	9,566	9,807	9,957	10,437	10,583	10,579	10,522	10,454	9,974	10,129
Wyoming	862	899	943	1,002	994	1,025	964	906	917	1,009
Puerto Rico	3,928	4,110	4,349	4,409	4,290	4,634	4,526	4,191	4,152	3,853

Science and Engineering Indicators 2018

State Indicators

SEH graduate students

State	2010	2011	2012	2013	2014	2015	2016
United States	611,841	608,171	609,760	615,706	648,525	667,939	667,057
Alabama	7,623	9,344	8,916	9,093	8,763	9,152	8,746
Alaska	1,224	1,239	1,202	1,245	1,228	1,197	1,125
Arizona	9,519	10,036	10,410	10,264	10,902	11,043	11,361
Arkansas	3,256	3,157	3,266	3,060	3,499	4,014	4,550
California	72,342	71,371	70,810	73,689	79,506	81,834	79,385
Colorado	12,406	12,989	12,897	13,090	14,199	14,473	14,409
Connecticut	10,094	8,867	8,576	9,159	9,677	10,394	10,529
Delaware	2,123	2,072	2,096	2,164	2,301	2,311	2,172
District of Columbia	10,800	11,068	11,214	11,237	11,230	12,224	11,643
Florida	28,439	27,589	27,464	27,354	27,110	28,205	26,971
Georgia	12,715	13,392	14,033	14,143	17,206	18,305	19,646
Hawaii	2,341	2,568	2,367	2,205	2,322	2,221	2,043
Idaho	2,269	2,244	2,047	1,973	1,889	1,928	1,965
Illinois	29,293	29,271	28,869	29,116	31,859	33,143	32,993
Indiana	12,708	12,621	13,200	13,224	14,726	14,950	15,622
Iowa	6,399	6,053	5,799	5,942	6,679	6,896	7,046
Kansas	6,454	6,269	6,132	6,034	6,288	6,157	5,987
Kentucky	5,494	5,443	5,333	5,241	5,665	5,589	5,555
Louisiana	7,289	7,165	6,966	7,302	7,344	6,986	6,726
Maine	755	827	696	702	1,100	1,240	1,350
Maryland	15,703	15,564	15,278	14,908	18,398	18,988	19,212
Massachusetts	28,742	28,893	30,004	31,772	32,096	31,788	32,757
Michigan	19,721	19,012	19,007	19,698	20,976	21,996	22,469

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	16,983	16,818	16,419	15,435	6,767	7,114	7,934
Mississippi	3,951	4,000	3,931	3,852	4,523	4,640	4,483
Missouri	9,614	9,567	10,023	10,607	12,810	14,203	14,103
Montana	1,500	1,459	1,438	1,404	1,535	1,487	1,669
Nebraska	4,238	3,841	3,849	4,054	4,072	4,145	4,153
Nevada	2,608	2,330	2,366	2,252	2,289	2,239	2,234
New Hampshire	1,919	1,858	2,008	2,018	2,191	2,183	2,210
New Jersey	13,664	12,920	13,566	13,511	14,560	16,007	15,546
New Mexico	4,305	4,228	4,162	4,057	4,055	3,918	3,918
New York	52,139	52,202	51,433	51,139	54,144	55,154	54,983
North Carolina	17,654	18,200	18,289	17,890	18,921	19,707	19,185
North Dakota	1,874	1,897	1,954	1,992	1,872	1,914	2,097
Ohio	23,751	23,364	23,661	23,517	23,793	24,429	24,417
Oklahoma	5,956	6,148	6,047	6,003	6,859	6,817	6,378
Oregon	5,770	5,628	5,879	6,106	6,143	6,508	6,734
Pennsylvania	25,765	24,718	26,030	27,030	29,513	29,426	31,034
Rhode Island	2,583	2,504	2,510	2,457	2,458	2,632	2,623
South Carolina	4,498	4,732	4,869	5,200	5,344	5,470	5,352
South Dakota	1,579	1,435	1,527	1,451	1,764	1,774	1,693
Tennessee	7,828	7,886	8,033	7,594	7,668	7,907	7,729
Texas	45,720	45,362	46,100	47,114	51,500	54,303	53,007
Utah	5,767	6,149	5,830	5,862	5,893	5,955	5,917
Vermont	779	736	694	630	686	702	701
Virginia	17,050	16,801	16,174	15,890	15,865	16,021	15,653
Washington	9,269	9,447	9,586	9,634	10,578	10,653	11,080
West Virginia	2,592	2,436	2,447	2,418	2,443	2,490	2,373

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	10,105	9,941	10,173	9,843	9,516	9,256	9,395
Wyoming	1,100	1,125	1,154	1,071	1,092	1,069	1,016
Puerto Rico	3,449	3,279	2,897	2,920	4,547	4,621	4,986

Science and Engineering Indicators 2018

State Indicators

Individuals 25–34 years old

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	40,336,568	39,995,888	39,870,910	39,764,395	39,786,862	39,777,267	39,908,492	40,221,761	40,711,336	41,221,461
Alabama	599,858	588,949	583,671	583,109	583,760	585,831	591,061	593,652	598,776	605,551
Alaska	88,908	87,154	86,652	86,372	87,247	88,158	89,788	92,158	95,378	98,338
Arizona	742,778	748,567	761,307	771,335	788,430	811,925	838,414	851,237	858,658	859,294
Arkansas	351,275	348,283	347,949	350,210	354,627	360,441	366,132	368,360	370,940	374,133
California	5,230,209	5,234,401	5,225,289	5,211,149	5,201,301	5,170,422	5,169,993	5,180,534	5,227,071	5,279,559
Colorado	664,892	674,645	678,811	672,836	673,625	667,340	673,414	684,807	700,644	715,247
Connecticut	450,424	437,292	431,490	425,567	417,964	409,222	403,277	402,640	409,191	415,315
Delaware	108,541	106,005	104,991	105,498	106,972	107,588	107,873	108,223	109,380	110,691
District of Columbia	101,411	102,420	102,631	102,534	103,255	102,771	105,154	107,876	112,093	118,225
Florida	2,082,060	2,071,777	2,085,560	2,103,282	2,142,213	2,184,963	2,221,655	2,237,326	2,250,501	2,268,725
Georgia	1,298,941	1,295,862	1,292,841	1,287,770	1,294,936	1,293,172	1,312,377	1,320,457	1,330,542	1,338,179
Hawaii	170,457	168,560	168,909	167,480	169,160	173,008	176,055	175,506	180,269	183,239
Idaho	169,182	169,900	172,436	175,412	180,138	185,263	191,279	198,366	204,010	207,725
Illinois	1,806,169	1,788,465	1,778,648	1,764,369	1,751,645	1,738,659	1,737,829	1,742,537	1,757,471	1,770,469
Indiana	827,916	817,892	812,004	812,263	810,727	811,745	812,260	816,321	821,148	825,179
Iowa	361,612	356,466	353,253	351,501	349,425	350,690	352,021	360,633	368,668	377,041
Kansas	347,852	343,487	342,814	341,110	340,723	338,523	343,137	351,287	360,888	370,956
Kentucky	565,671	556,948	552,382	550,343	552,204	554,515	555,069	558,071	558,929	564,291
Louisiana	598,087	587,213	584,779	584,738	591,843	599,543	560,262	575,856	592,767	613,507
Maine	156,753	152,867	150,990	149,621	148,155	145,702	143,767	143,628	143,942	144,182
Maryland	746,470	733,474	728,867	725,954	724,290	724,285	725,791	726,252	735,642	750,047
Massachusetts	924,177	907,376	890,406	871,255	852,813	832,018	818,399	814,747	823,150	836,527
Michigan	1,356,447	1,327,644	1,302,869	1,284,254	1,264,592	1,243,378	1,219,056	1,197,913	1,180,544	1,168,135

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	671,801	666,671	663,092	660,236	658,568	658,321	661,468	678,304	693,862	707,472
Mississippi	380,102	374,462	372,165	371,138	373,250	375,456	373,805	377,937	381,965	385,569
Missouri	736,368	727,911	726,026	725,017	726,907	729,435	736,036	745,829	754,908	767,881
Montana	102,791	101,315	100,829	101,732	103,826	105,468	107,547	112,370	116,423	120,469
Nebraska	222,605	220,445	219,808	220,720	220,654	221,322	223,330	228,300	233,846	240,551
Nevada	308,184	314,776	322,067	329,518	342,914	355,064	367,992	378,966	386,492	388,477
New Hampshire	159,595	156,956	154,345	152,277	149,206	146,628	144,611	143,573	143,691	143,585
New Jersey	1,186,421	1,164,876	1,151,666	1,138,050	1,123,707	1,108,194	1,091,700	1,088,607	1,096,725	1,103,609
New Mexico	233,006	229,301	231,321	234,200	238,039	242,376	247,445	252,740	256,437	262,060
New York	2,750,527	2,705,918	2,679,451	2,656,506	2,624,513	2,583,949	2,560,803	2,565,014	2,598,483	2,635,818
North Carolina	1,212,650	1,207,640	1,202,111	1,193,775	1,193,778	1,187,065	1,192,318	1,201,650	1,223,875	1,237,192
North Dakota	76,394	74,377	73,193	72,926	74,007	74,290	75,538	79,816	82,659	87,228
Ohio	1,511,201	1,481,232	1,463,095	1,453,156	1,444,523	1,435,215	1,420,465	1,414,429	1,411,990	1,410,648
Oklahoma	449,399	445,894	447,621	447,100	450,653	454,892	463,304	474,358	484,333	498,218
Oregon	469,683	472,656	478,282	481,061	479,431	481,819	488,957	499,535	509,820	520,329
Pennsylvania	1,551,601	1,514,109	1,493,954	1,485,351	1,476,744	1,468,043	1,460,972	1,464,778	1,480,932	1,498,783
Rhode Island	139,942	137,032	136,219	136,066	135,243	131,683	128,875	126,899	127,188	126,651
South Carolina	558,936	551,336	551,869	552,295	556,293	558,436	564,942	570,513	580,589	586,880
South Dakota	90,662	89,533	89,484	89,487	90,470	91,804	92,913	96,924	99,505	103,198
Tennessee	812,772	800,705	795,801	794,674	800,018	803,720	809,202	815,044	816,265	821,861
Texas	3,162,840	3,186,416	3,219,648	3,234,855	3,263,123	3,297,694	3,361,877	3,425,969	3,495,902	3,566,069
Utah	327,443	333,952	343,699	354,519	367,784	379,940	395,758	414,291	429,369	440,646
Vermont	74,209	72,130	71,165	69,883	68,536	67,389	66,702	66,782	67,742	68,872
Virginia	1,035,388	1,025,675	1,018,606	1,014,083	1,016,307	1,019,070	1,023,967	1,032,580	1,051,186	1,072,354
Washington	838,953	837,266	837,613	833,614	835,461	838,721	855,936	872,237	899,021	923,298
West Virginia	227,328	222,472	221,919	222,377	221,856	222,650	221,677	220,852	220,531	221,136

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	704,112	692,200	685,540	681,594	679,665	678,197	678,122	688,329	701,692	713,719
Wyoming	59,494	58,619	59,508	59,623	61,035	62,644	64,854	68,450	71,440	76,214
Puerto Rico	532,071	524,366	521,264	520,600	520,306	518,620	513,313	508,298	503,863	498,119

Science and Engineering Indicators 2018

State Indicators

Individuals 25–34 years old

State	2010	2011	2012	2013	2014	2015	2016
United States	41,705,580	42,286,294	42,774,039	43,304,362	43,903,340	44,452,211	45,101,797
Alabama	610,693	614,534	617,372	620,455	625,479	631,393	637,487
Alaska	104,481	107,887	111,252	114,523	116,641	117,998	120,453
Arizona	858,490	865,169	872,291	881,907	897,480	913,092	933,128
Arkansas	377,062	380,456	382,050	383,732	385,880	388,317	392,755
California	5,334,908	5,412,209	5,489,969	5,587,498	5,709,442	5,810,247	5,917,785
Colorado	729,887	745,360	760,118	775,422	792,781	817,029	842,409
Connecticut	422,274	429,640	435,551	439,757	440,249	439,662	442,021
Delaware	111,998	114,427	116,949	120,156	123,937	125,947	127,501
District of Columbia	126,801	135,180	142,121	147,281	149,970	151,550	154,991
Florida	2,301,435	2,356,966	2,410,512	2,462,606	2,530,740	2,608,121	2,683,425
Georgia	1,338,018	1,349,928	1,359,188	1,363,774	1,380,325	1,398,501	1,422,300
Hawaii	186,468	191,358	196,202	200,881	203,935	206,284	207,903
Idaho	209,307	210,922	211,143	212,753	215,436	217,470	221,561
Illinois	1,778,886	1,785,816	1,784,923	1,788,029	1,785,410	1,775,974	1,774,032
Indiana	829,017	834,019	835,938	842,619	847,178	850,498	859,672
Iowa	384,334	388,984	389,668	390,293	391,945	392,448	394,373
Kansas	379,527	382,833	385,319	385,566	385,720	385,118	384,606
Kentucky	567,396	568,286	566,299	565,234	566,404	569,086	575,311
Louisiana	632,982	645,545	654,796	662,773	671,025	677,087	681,658
Maine	144,790	146,833	148,748	151,026	153,247	155,008	156,994
Maryland	767,143	785,880	802,238	815,799	824,804	830,821	834,450
Massachusetts	850,706	873,259	895,258	914,544	929,915	941,785	952,329
Michigan	1,163,904	1,169,269	1,175,610	1,187,111	1,202,359	1,223,486	1,251,709

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	717,764	729,109	736,565	743,417	746,751	746,333	748,412
Mississippi	388,327	390,553	390,315	390,862	392,250	392,492	394,253
Missouri	778,737	788,251	791,952	796,945	801,722	805,282	812,868
Montana	123,290	125,143	126,068	127,709	129,366	130,849	132,974
Nebraska	246,311	249,850	251,808	253,159	253,323	252,384	252,946
Nevada	387,104	387,942	391,556	396,904	405,612	416,095	428,127
New Hampshire	145,056	147,190	149,512	151,830	154,806	156,809	160,604
New Jersey	1,113,217	1,125,647	1,134,729	1,142,084	1,148,297	1,152,072	1,162,064
New Mexico	268,907	273,033	275,337	277,246	278,290	278,409	279,900
New York	2,671,251	2,724,001	2,764,504	2,805,614	2,840,750	2,865,267	2,890,773
North Carolina	1,249,655	1,259,546	1,265,992	1,278,289	1,294,149	1,309,830	1,335,454
North Dakota	91,403	94,921	99,013	104,139	108,446	112,979	113,553
Ohio	1,412,915	1,425,547	1,435,185	1,453,618	1,472,299	1,487,672	1,506,910
Oklahoma	508,406	515,897	521,595	528,783	534,356	540,651	545,460
Oregon	524,968	529,522	532,033	535,372	543,959	556,241	574,842
Pennsylvania	1,519,441	1,553,004	1,585,045	1,615,315	1,642,763	1,662,348	1,677,711
Rhode Island	127,607	129,655	132,408	135,743	139,016	141,073	143,107
South Carolina	593,934	599,163	604,572	613,143	625,998	640,702	655,031
South Dakota	106,053	108,134	109,946	111,923	112,511	112,128	112,266
Tennessee	825,936	832,593	839,763	846,373	859,084	872,760	892,054
Texas	3,630,733	3,699,061	3,768,018	3,837,326	3,923,928	4,007,510	4,085,728
Utah	446,302	446,177	442,105	440,164	439,456	440,656	448,845
Vermont	69,792	70,707	71,153	71,986	72,036	71,884	72,709
Virginia	1,097,343	1,121,683	1,140,185	1,154,577	1,163,320	1,167,793	1,172,060
Washington	937,882	957,004	973,001	991,321	1,015,697	1,044,019	1,081,072
West Virginia	221,025	221,127	220,398	219,193	218,552	218,554	219,000

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	723,473	730,335	731,748	731,657	730,624	726,248	727,719
Wyoming	77,989	79,185	80,856	81,518	82,102	82,739	81,948
Puerto Rico	490,252	477,554	465,162	454,413	443,575	433,510	424,554

Science and Engineering Indicators 2018

State Indicators

S-22 Advanced Science and Engineering Degrees as a Percentage of S&E Degrees Conferred

Description

This indicator represents the extent to which a state's higher education programs in S&E are concentrated at the graduate level. S&E fields include the physical, life, earth, ocean, atmospheric, computer, and social sciences; mathematics; engineering; and psychology. They do not include medical fields or technologies. Advanced S&E degrees include master's and doctoral degrees. Total S&E degrees include bachelor's, master's, and doctoral degrees but exclude associate's degrees.

The indicator value is computed by dividing the number of advanced S&E degrees by the total number of S&E degrees awarded by the higher education institutions within the state. The number of degrees awarded is an actual count provided by the National Center for Education Statistics and includes degrees from both public and private institutions. These values are reported by the state in which the degree-granting institution is located.

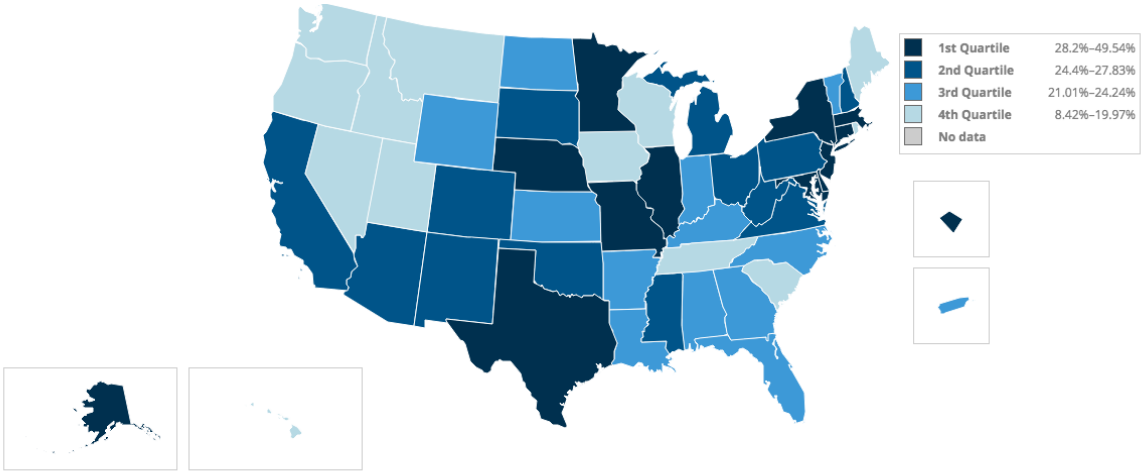
Student mobility after graduation is not accounted for, which may make this indicator less meaningful in predicting the qualifications of a state's future technical workforce. In states with few S&E graduate programs, the number of advanced S&E degrees conferred may vary considerably from year to year.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

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

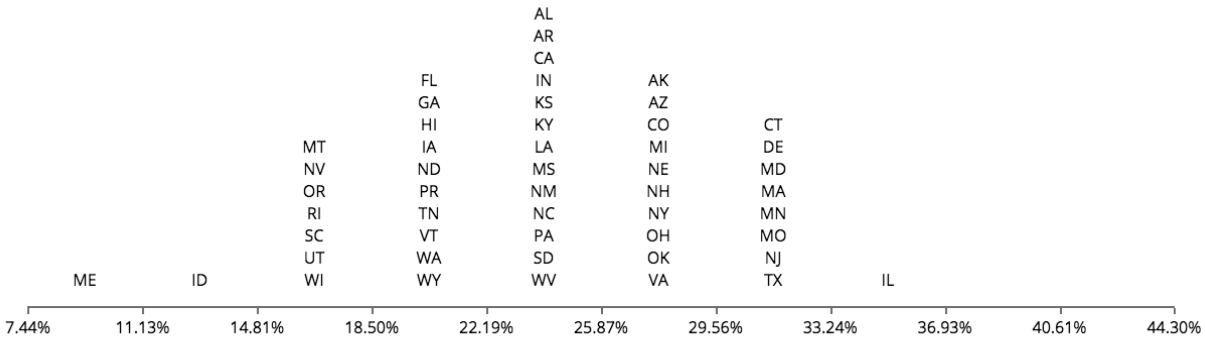
State Indicators

S-22 Advanced Science and Engineering Degrees as a Percentage of S&E Degrees Conferred

2016



Distribution of states across indicator values, 2016



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

State Indicators

Advanced Science and Engineering Degrees as a Percentage of S&E Degrees Conferred

(Percent)

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	23.27	23.06	22.76	23.29	23.83	24.12	23.96	23.60	23.58	23.31
Alabama	20.90	21.02	21.15	21.27	21.45	21.86	21.09	25.88	21.85	21.34
Alaska	29.02	30.38	32.05	28.36	34.00	35.07	31.19	29.31	32.91	28.35
Arizona	26.09	27.61	25.30	27.04	28.96	26.64	27.20	26.50	27.72	24.07
Arkansas	16.74	14.86	15.06	15.68	16.38	15.97	15.83	14.19	15.88	13.83
California	25.81	24.65	23.60	25.38	25.49	25.73	25.14	22.99	24.14	24.25
Colorado	23.12	24.26	23.73	24.96	24.92	26.02	25.29	25.69	25.65	25.39
Connecticut	25.83	24.54	23.81	23.83	25.39	24.69	25.33	24.80	25.57	26.02
Delaware	18.37	15.92	16.49	20.31	17.90	18.80	22.91	22.40	20.82	20.55
District of Columbia	39.00	37.60	36.95	41.12	44.30	46.11	47.85	46.24	45.46	45.38
Florida	22.86	22.42	21.86	23.00	24.21	24.14	23.21	22.73	22.19	22.37
Georgia	21.86	22.43	22.46	22.77	22.69	23.02	22.73	21.88	22.07	22.40
Hawaii	21.17	23.34	25.39	25.03	24.02	24.20	22.86	26.20	26.16	27.02
Idaho	26.49	28.02	25.71	25.31	19.24	25.30	22.59	18.19	20.66	18.99
Illinois	26.10	26.34	27.24	28.04	29.20	28.91	29.61	29.56	29.12	28.81
Indiana	20.70	19.36	18.97	20.10	21.03	22.20	22.13	21.18	22.00	21.76
Iowa	19.76	18.92	18.08	17.82	19.13	18.78	18.12	17.41	18.94	17.18
Kansas	22.64	20.81	22.98	20.09	21.14	22.48	22.52	22.42	22.90	21.09
Kentucky	21.23	21.04	18.34	18.71	17.63	19.12	17.98	19.36	18.95	17.39
Louisiana	21.06	20.97	20.19	20.96	23.38	23.06	21.84	22.60	21.74	21.48
Maine	9.83	9.29	9.21	8.40	9.74	10.50	9.55	10.17	9.81	7.44
Maryland	26.75	27.04	26.43	27.79	27.06	29.05	30.12	29.35	29.07	30.65
Massachusetts	27.10	26.02	26.79	28.09	28.96	29.05	29.14	29.69	29.61	29.35

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Michigan	21.41	22.09	23.09	23.24	23.51	24.76	25.19	24.90	25.91	25.75
Minnesota	16.27	17.51	15.60	15.88	17.89	16.97	19.84	17.97	18.04	17.48
Mississippi	23.37	25.28	22.45	21.00	21.40	21.73	20.41	21.18	19.67	19.11
Missouri	26.03	25.75	26.87	23.86	22.97	26.34	27.19	25.94	26.19	24.82
Montana	17.52	22.94	18.48	17.91	18.71	20.12	18.24	17.76	18.33	17.92
Nebraska	21.53	17.37	19.92	19.84	20.27	20.24	21.51	17.70	19.48	20.06
Nevada	26.79	28.99	27.34	23.08	22.99	25.40	25.21	23.32	24.85	24.45
New Hampshire	13.18	12.46	11.46	14.43	14.16	14.43	14.38	15.07	13.19	14.16
New Jersey	26.56	26.60	27.08	25.79	24.86	24.89	24.07	23.25	22.48	23.42
New Mexico	30.10	29.26	31.69	31.41	30.93	32.52	32.51	31.40	30.01	27.89
New York	26.49	26.64	25.65	26.04	27.03	26.62	25.85	25.84	25.25	25.71
North Carolina	16.21	16.46	16.22	16.34	16.02	16.71	17.24	16.65	16.84	18.69
North Dakota	17.32	14.36	14.69	14.11	13.73	15.42	15.12	15.30	14.78	12.89
Ohio	26.38	26.34	25.79	26.44	27.44	26.67	27.19	27.28	26.33	24.94
Oklahoma	25.82	25.62	26.50	27.01	29.38	29.06	25.79	27.68	30.56	28.68
Oregon	21.22	18.91	20.29	20.89	21.50	22.31	21.11	20.90	20.61	20.37
Pennsylvania	19.08	20.46	20.61	21.01	20.98	21.72	21.16	20.69	20.97	20.33
Rhode Island	21.83	22.62	19.45	20.03	20.50	20.82	20.41	18.84	19.74	18.92
South Carolina	16.11	15.44	15.37	16.73	16.67	18.43	17.39	16.74	17.25	16.90
South Dakota	16.63	14.42	14.50	16.76	21.15	19.17	20.95	18.99	19.32	15.77
Tennessee	19.12	19.67	19.17	17.71	18.45	18.46	18.33	20.29	18.25	19.33
Texas	24.47	24.30	24.48	25.27	26.66	26.27	25.97	26.18	26.80	25.59
Utah	20.40	19.71	18.86	19.03	17.01	17.82	16.71	16.74	15.31	14.69
Vermont	15.09	16.55	15.67	15.38	15.66	14.50	17.81	16.41	20.63	16.55
Virginia	19.91	19.61	19.63	19.23	20.53	21.22	20.81	22.28	20.91	21.15
Washington	23.02	21.53	20.89	21.98	20.83	20.73	20.69	20.29	18.05	18.20

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
West Virginia	16.46	18.80	17.90	15.67	15.66	16.67	17.49	18.44	19.34	18.34
Wisconsin	17.21	17.49	16.97	17.03	18.09	18.13	18.17	17.82	16.57	16.58
Wyoming	30.16	27.02	27.78	25.91	34.50	31.15	30.78	28.21	28.95	25.57
Puerto Rico	9.60	10.10	9.66	11.29	12.41	10.93	11.01	11.31	12.11	14.16

Note(s):
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Source(s):
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Science and Engineering Indicators 2018

State Indicators

Advanced Science and Engineering Degrees as a Percentage of S&E Degrees Conferred

(Percent)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	23.38	23.79	22.95	23.20	24.13	24.12	24.03	23.94	24.36	24.92
Alabama	25.79	26.37	27.65	27.26	28.34	28.25	27.62	27.37	27.27	26.95
Alaska	32.01	30.46	27.91	31.75	32.50	34.91	28.37	32.41	32.76	30.30
Arizona	25.41	25.37	21.60	20.77	19.48	17.46	17.48	17.30	17.80	23.36
Arkansas	15.42	15.47	15.37	15.46	16.46	16.88	17.81	17.06	18.79	18.85
California	24.81	24.49	23.02	22.94	24.64	24.59	24.42	24.45	24.36	25.00
Colorado	24.84	24.83	23.47	24.70	26.15	24.73	23.12	23.19	22.95	23.91
Connecticut	25.38	25.52	25.00	26.77	24.86	27.09	24.81	24.88	25.93	29.25
Delaware	20.40	22.51	19.42	21.97	22.65	23.49	21.99	25.39	24.54	24.70
District of Columbia	46.67	43.52	42.75	42.08	42.32	44.29	41.96	45.10	44.18	46.85
Florida	22.44	22.97	22.86	21.94	22.02	21.57	20.32	20.94	21.57	21.67
Georgia	22.53	23.52	23.70	23.43	23.06	22.20	22.42	22.29	22.83	24.46
Hawaii	24.65	24.82	21.80	23.62	22.96	22.90	21.99	23.14	23.19	21.86
Idaho	18.16	19.42	16.90	18.80	16.11	17.79	18.87	18.04	17.22	16.34
Illinois	29.81	30.75	29.09	30.28	32.01	31.34	32.23	33.08	33.95	33.00
Indiana	21.77	21.81	19.89	20.13	21.46	21.33	21.48	21.31	21.83	22.94
Iowa	15.96	15.87	16.47	15.90	16.31	17.09	17.42	16.51	16.48	15.67
Kansas	22.36	21.25	20.93	22.21	22.55	22.70	22.18	22.04	23.26	22.48
Kentucky	18.42	19.42	18.66	21.07	23.26	25.48	23.54	24.68	24.69	23.72
Louisiana	20.43	20.53	20.37	18.99	21.23	22.72	23.58	22.03	20.50	19.75
Maine	8.04	7.78	7.61	7.86	8.19	7.69	8.95	7.96	8.67	8.40
Maryland	29.73	30.15	29.90	29.23	29.27	29.46	29.62	30.81	31.17	31.01
Massachusetts	29.12	29.13	29.16	30.02	30.82	30.34	30.05	30.87	30.45	30.88

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	25.98	26.51	26.01	27.03	27.90	26.99	25.86	25.98	25.40	26.05
Minnesota	17.26	18.47	19.31	19.82	20.52	22.22	22.96	24.36	25.18	27.56
Mississippi	18.49	18.32	20.43	21.25	23.10	22.17	22.03	21.95	23.20	22.89
Missouri	25.36	25.87	24.77	25.86	25.66	26.53	24.22	24.58	26.23	26.38
Montana	17.51	17.24	17.25	16.74	18.17	19.83	19.46	19.34	19.05	18.45
Nebraska	19.58	21.37	19.81	21.37	21.91	21.00	21.27	20.30	21.80	25.28
Nevada	23.08	23.81	20.82	24.34	23.22	26.25	24.00	19.05	21.67	21.82
New Hampshire	13.04	15.75	15.26	15.50	15.67	14.78	16.16	14.21	18.58	16.72
New Jersey	22.37	23.30	22.76	23.63	24.29	24.33	25.22	25.32	26.47	27.26
New Mexico	26.58	28.81	28.93	27.16	29.87	29.78	33.05	29.10	30.59	30.26
New York	25.07	25.64	25.71	25.19	26.35	26.86	27.12	26.42	27.17	27.22
North Carolina	17.95	18.68	17.80	18.65	19.52	19.06	19.59	19.55	20.07	20.56
North Dakota	12.51	13.10	14.12	14.67	14.35	15.20	15.51	18.98	18.69	17.64
Ohio	25.01	24.92	23.71	23.37	24.12	25.22	25.16	23.89	25.09	24.69
Oklahoma	33.12	31.23	28.97	31.40	31.73	25.61	22.49	21.75	21.65	23.59
Oregon	18.57	20.02	17.79	18.64	20.21	19.78	19.34	18.71	18.42	17.93
Pennsylvania	20.50	20.76	20.45	20.81	21.66	21.46	22.45	22.14	22.58	23.23
Rhode Island	16.90	18.52	18.45	15.44	17.43	16.73	17.36	18.02	17.97	18.30
South Carolina	16.08	18.19	15.72	15.81	16.08	15.88	15.79	15.29	15.44	15.50
South Dakota	16.41	20.84	17.53	20.54	20.86	23.30	21.79	20.38	20.60	20.95
Tennessee	18.64	19.34	17.30	17.15	18.78	18.21	19.10	18.90	18.97	19.52
Texas	25.50	26.43	25.06	25.73	26.91	26.92	26.63	25.89	26.16	27.42
Utah	16.44	16.57	14.93	14.48	16.39	15.99	16.37	15.84	16.51	16.46
Vermont	18.34	14.82	14.51	9.50	16.67	20.57	21.58	23.43	26.25	25.29
Virginia	20.50	20.52	20.12	20.68	22.15	22.30	23.06	22.49	24.16	26.74
Washington	17.89	18.72	18.45	18.95	18.23	18.15	18.44	18.44	18.89	18.57

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	19.85	19.38	18.01	18.02	21.78	22.41	20.75	18.12	19.64	22.35
Wisconsin	16.14	16.40	15.21	15.81	16.34	16.98	16.30	16.52	16.24	15.59
Wyoming	24.73	27.68	24.36	24.30	24.35	26.42	23.34	25.49	21.33	22.65
Puerto Rico	15.10	15.68	15.34	14.63	17.39	17.48	20.40	21.07	20.88	21.22

Note(s):
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Source(s):
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Science and Engineering Indicators 2018

State Indicators

Advanced Science and Engineering Degrees as a Percentage of S&E Degrees Conferred

(Percent)

State	2010	2011	2012	2013	2014	2015	2016
United States	24.73	25.01	25.03	24.83	24.84	25.30	26.27
Alabama	25.58	25.29	24.01	23.58	22.70	22.92	24.24
Alaska	30.22	24.76	30.11	26.54	26.65	25.68	28.20
Arizona	23.65	22.51	22.40	21.35	24.15	24.53	26.02
Arkansas	21.74	22.45	20.83	21.10	19.58	20.23	22.91
California	24.80	25.59	25.22	24.53	24.19	23.89	24.82
Colorado	25.57	26.61	28.50	27.64	27.30	27.14	27.83
Connecticut	27.39	26.32	26.56	25.78	26.86	26.76	31.42
Delaware	23.64	23.74	23.07	20.65	23.31	26.38	29.69
District of Columbia	45.20	47.79	47.25	48.69	50.22	50.29	49.54
Florida	21.82	21.32	21.36	21.43	21.53	20.59	21.36
Georgia	22.73	23.13	22.80	22.22	21.83	20.92	22.09
Hawaii	24.77	22.89	24.74	20.90	20.09	21.31	19.19
Idaho	15.53	16.93	17.37	15.63	13.72	12.29	13.04
Illinois	32.16	33.65	33.72	32.67	31.62	33.42	35.12
Indiana	21.93	22.48	23.01	22.77	22.43	23.25	22.59
Iowa	16.11	11.69	14.08	15.41	16.70	17.35	18.67
Kansas	22.39	25.02	24.27	23.24	23.42	25.77	23.21
Kentucky	23.28	23.42	24.05	24.33	23.57	23.55	24.11
Louisiana	22.87	21.70	22.09	21.24	20.02	21.23	22.31
Maine	7.47	8.02	8.27	7.78	8.66	8.98	8.42
Maryland	30.70	31.33	31.29	32.17	32.28	31.42	31.23
Massachusetts	30.86	30.93	31.75	31.76	31.36	31.61	32.47

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	24.97	25.23	25.78	25.89	25.44	26.17	27.28
Minnesota	28.88	30.54	29.82	30.37	29.99	29.35	30.61
Mississippi	24.63	25.41	24.81	25.16	24.62	27.71	24.94
Missouri	25.40	26.88	26.91	25.52	26.03	30.75	32.70
Montana	19.00	18.37	20.21	16.31	15.14	16.52	16.66
Nebraska	23.54	23.74	25.91	26.23	24.82	28.12	28.59
Nevada	20.32	19.91	17.72	18.72	15.28	14.86	15.24
New Hampshire	18.96	16.65	15.63	16.73	16.38	20.20	26.71
New Jersey	27.82	26.49	26.08	24.61	26.38	27.29	29.77
New Mexico	27.29	27.51	27.62	27.97	26.71	27.86	25.75
New York	27.38	28.13	28.05	27.75	27.61	28.37	28.87
North Carolina	21.19	20.83	21.70	21.99	22.50	22.51	23.66
North Dakota	16.89	18.65	20.08	19.93	22.64	21.62	21.44
Ohio	23.89	24.06	24.01	24.16	24.42	25.08	26.85
Oklahoma	24.79	25.96	26.61	25.26	24.37	25.40	26.19
Oregon	17.37	17.39	17.34	16.51	15.71	16.33	16.38
Pennsylvania	23.81	24.10	24.17	24.34	25.18	25.11	25.54
Rhode Island	18.43	18.17	19.39	17.91	16.73	15.90	17.19
South Carolina	15.06	14.67	15.36	15.12	14.79	15.64	15.25
South Dakota	20.31	22.42	22.81	22.29	21.91	25.25	24.40
Tennessee	18.77	18.29	18.71	18.86	19.63	19.43	19.97
Texas	27.26	28.20	27.82	28.14	27.99	30.55	32.41
Utah	16.29	17.68	16.86	18.15	18.32	18.08	17.59
Vermont	22.64	22.35	22.81	29.39	22.50	21.00	21.16
Virginia	25.65	25.08	25.40	25.46	26.53	26.84	27.64
Washington	18.67	17.76	17.33	17.54	17.97	18.33	18.97

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	24.56	29.92	29.84	29.67	28.66	26.12	24.50
Wisconsin	15.80	16.10	15.92	15.19	15.45	15.56	15.96
Wyoming	22.70	26.20	23.53	23.70	25.71	21.57	21.01
Puerto Rico	20.28	21.32	18.85	19.97	19.35	17.94	21.83

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Advanced S&E degrees

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	99,788	101,202	104,670	111,124	116,759	120,230	121,171	119,931	120,569	118,896
Alabama	1,143	1,236	1,364	1,420	1,464	1,463	1,470	1,863	1,504	1,452
Alaska	130	137	150	135	204	215	209	199	235	163
Arizona	1,310	1,487	1,408	1,618	1,771	1,816	1,810	1,787	2,023	1,674
Arkansas	325	315	338	367	406	408	439	414	449	395
California	13,267	12,081	12,319	14,445	14,644	14,815	14,639	12,988	14,175	14,407
Colorado	1,993	2,167	2,241	2,583	2,710	2,911	2,762	2,906	2,955	2,909
Connecticut	1,658	1,608	1,622	1,668	1,802	1,765	1,767	1,729	1,793	1,774
Delaware	270	293	306	369	318	349	434	432	376	392
District of Columbia	2,059	2,011	2,107	2,448	2,635	2,910	3,194	3,036	2,989	2,801
Florida	2,764	2,967	2,994	3,372	3,786	3,940	4,010	3,921	3,867	3,927
Georgia	1,718	1,808	1,914	2,078	2,177	2,270	2,403	2,279	2,532	2,561
Hawaii	330	370	419	428	411	454	444	536	532	554
Idaho	303	322	317	350	298	418	389	305	343	319
Illinois	5,368	5,280	5,644	5,782	6,156	6,161	6,366	6,466	6,390	6,320
Indiana	2,178	2,101	2,221	2,372	2,429	2,551	2,629	2,455	2,525	2,383
Iowa	1,064	1,077	1,071	1,097	1,218	1,200	1,178	1,137	1,211	1,113
Kansas	1,000	929	1,121	987	1,107	1,191	1,201	1,187	1,176	1,119
Kentucky	810	851	789	827	839	940	887	972	954	907
Louisiana	1,047	1,042	1,097	1,206	1,440	1,526	1,481	1,519	1,509	1,483
Maine	175	174	188	188	215	226	207	221	217	169
Maryland	2,570	2,739	2,801	2,969	2,878	3,196	3,458	3,483	3,422	3,703
Massachusetts	5,787	5,722	5,953	5,827	6,071	6,139	6,477	6,496	6,515	6,496
Michigan	3,616	3,869	4,143	4,189	4,358	4,567	4,734	4,621	4,823	4,619

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	1,282	1,499	1,335	1,390	1,653	1,576	1,843	1,665	1,690	1,642
Mississippi	605	712	662	714	733	782	709	730	664	656
Missouri	2,086	2,190	2,481	2,135	2,116	2,700	2,802	2,751	2,869	2,661
Montana	251	315	279	276	308	346	345	378	380	378
Nebraska	512	434	521	551	596	586	671	546	626	584
Nevada	180	218	213	210	232	288	297	284	341	331
New Hampshire	343	326	311	417	413	424	416	445	406	443
New Jersey	3,038	3,060	3,105	3,092	3,068	3,040	3,023	2,974	2,928	3,151
New Mexico	694	700	767	799	837	898	931	868	801	728
New York	10,796	11,078	10,873	11,202	11,685	11,606	11,219	11,419	10,765	10,914
North Carolina	1,782	1,868	2,005	2,117	2,246	2,351	2,502	2,477	2,454	2,705
North Dakota	238	193	209	191	192	222	221	238	228	203
Ohio	4,456	4,581	4,658	5,030	5,266	5,155	5,257	5,370	5,115	4,678
Oklahoma	1,139	1,143	1,227	1,334	1,582	1,542	1,285	1,557	1,756	1,889
Oregon	1,034	983	1,168	1,207	1,296	1,348	1,299	1,284	1,298	1,310
Pennsylvania	4,499	4,866	5,115	5,326	5,356	5,660	5,449	5,385	5,489	5,313
Rhode Island	599	707	597	614	623	663	662	549	579	564
South Carolina	723	759	802	920	977	1,072	1,025	1,004	1,007	1,011
South Dakota	234	214	228	281	381	370	417	382	379	296
Tennessee	1,192	1,267	1,323	1,270	1,355	1,427	1,427	1,633	1,475	1,569
Texas	5,236	5,363	5,927	6,434	7,066	7,138	7,072	7,072	7,445	6,970
Utah	962	923	943	1,013	1,001	1,048	1,054	1,077	1,006	980
Vermont	312	338	321	330	349	306	379	334	457	377
Virginia	2,396	2,548	2,704	2,853	3,100	3,275	3,199	3,423	3,092	3,137
Washington	1,797	1,687	1,670	1,899	1,888	1,923	1,970	2,032	1,777	1,715
West Virginia	317	384	399	355	407	437	483	472	501	484

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	1,679	1,705	1,719	1,803	1,902	1,874	1,863	1,852	1,712	1,691
Wyoming	190	201	225	213	325	290	277	270	262	223
Puerto Rico	325	345	350	415	455	434	453	492	536	627

Science and Engineering Indicators 2018

State Indicators

Advanced S&E degrees

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	121,653	124,981	123,904	133,780	145,869	149,431	151,451	152,866	159,763	167,801
Alabama	1,937	1,969	1,991	1,914	2,114	2,271	2,294	2,282	2,306	2,394
Alaska	185	184	156	194	222	236	204	235	246	243
Arizona	1,709	1,680	1,637	1,837	2,065	1,938	2,006	2,118	2,281	3,528
Arkansas	436	440	476	498	530	558	576	552	623	639
California	15,309	15,467	15,227	15,926	18,093	18,765	19,281	19,438	20,004	20,799
Colorado	2,911	2,879	2,877	3,162	3,515	3,370	3,296	3,258	3,339	3,393
Connecticut	1,748	1,768	1,752	2,084	1,988	2,209	2,069	2,136	2,337	2,812
Delaware	394	419	389	448	464	507	487	547	545	553
District of Columbia	2,972	2,990	3,030	3,048	3,186	3,317	3,480	3,558	3,673	3,968
Florida	4,071	4,306	4,557	4,708	5,305	5,329	5,219	5,580	6,026	6,261
Georgia	2,615	2,805	2,989	3,258	3,649	3,235	3,234	3,290	3,468	3,808
Hawaii	543	529	443	480	535	538	534	552	590	563
Idaho	331	341	306	411	324	424	502	481	451	457
Illinois	6,777	7,171	6,780	7,711	8,292	8,658	9,117	9,457	9,951	9,609
Indiana	2,483	2,440	2,324	2,470	2,739	2,840	2,844	2,887	2,937	3,040
Iowa	1,055	1,014	1,089	1,127	1,172	1,261	1,291	1,256	1,355	1,423
Kansas	1,220	1,203	1,135	1,304	1,370	1,394	1,317	1,325	1,395	1,350
Kentucky	938	974	997	1,113	1,345	1,551	1,487	1,601	1,604	1,537
Louisiana	1,430	1,418	1,438	1,397	1,587	1,773	1,708	1,688	1,500	1,417
Maine	185	174	175	201	200	196	235	212	246	231
Maryland	3,637	3,832	3,927	4,112	4,394	4,618	4,700	4,886	5,035	5,121
Massachusetts	6,600	6,654	6,764	7,245	7,654	7,662	7,645	7,913	8,050	8,249
Michigan	4,788	4,936	4,983	5,701	6,069	5,744	5,449	5,564	5,637	5,931

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	1,546	1,696	1,877	2,020	2,249	2,644	2,844	3,053	3,368	3,827
Mississippi	628	636	727	716	836	793	797	838	887	901
Missouri	2,793	2,939	2,971	3,277	3,324	3,452	3,085	3,176	3,455	3,556
Montana	368	358	364	387	416	447	426	443	422	424
Nebraska	647	697	612	707	761	808	828	782	882	1,060
Nevada	315	304	278	370	410	482	541	393	528	531
New Hampshire	418	463	440	478	524	490	542	472	637	588
New Jersey	3,118	3,225	3,258	3,611	3,859	3,811	3,935	3,957	4,221	4,507
New Mexico	697	729	708	723	841	857	977	854	876	911
New York	10,761	11,450	11,482	12,438	13,261	13,828	13,912	13,544	14,320	14,817
North Carolina	2,630	2,717	2,694	2,913	3,271	3,177	3,241	3,421	3,644	3,838
North Dakota	190	183	210	237	222	234	236	312	305	284
Ohio	4,627	4,648	4,481	4,636	4,910	5,222	5,286	5,101	5,323	5,330
Oklahoma	1,981	1,847	1,698	1,811	2,057	1,624	1,404	1,357	1,320	1,506
Oregon	1,227	1,296	1,175	1,313	1,572	1,544	1,548	1,514	1,479	1,430
Pennsylvania	5,448	5,507	5,616	6,176	6,668	6,755	7,263	7,197	7,584	8,023
Rhode Island	509	532	566	532	639	610	674	648	682	701
South Carolina	957	1,101	955	1,012	1,023	1,071	1,087	1,055	1,092	1,128
South Dakota	307	379	314	381	422	472	448	416	423	419
Tennessee	1,497	1,506	1,386	1,457	1,641	1,593	1,672	1,678	1,735	1,874
Texas	7,131	7,464	7,164	8,121	8,940	9,318	9,397	9,314	9,671	10,473
Utah	1,032	1,011	1,006	1,060	1,280	1,283	1,301	1,308	1,338	1,353
Vermont	409	319	311	196	375	516	556	647	770	795
Virginia	3,210	3,239	3,158	3,391	3,718	3,933	4,240	4,154	4,704	5,530
Washington	1,722	1,855	1,912	2,120	2,109	2,244	2,296	2,385	2,427	2,438
West Virginia	546	523	492	516	612	660	634	589	736	843

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	1,656	1,730	1,608	1,813	1,979	2,069	2,010	2,117	2,067	2,008
Wyoming	225	230	201	199	198	200	200	207	183	190
Puerto Rico	748	789	772	794	900	873	1,074	1,086	1,057	1,159

Science and Engineering Indicators 2018

State Indicators

Advanced S&E degrees

State	2010	2011	2012	2013	2014	2015	2016
United States	172,575	184,858	196,731	203,325	210,167	220,133	237,345
Alabama	2,289	2,504	2,407	2,428	2,332	2,401	2,648
Alaska	262	228	262	250	262	244	282
Arizona	4,078	4,328	5,377	5,433	5,826	5,342	5,677
Arkansas	809	925	938	973	968	1,024	1,259
California	21,249	23,159	23,950	24,330	25,165	25,321	27,710
Colorado	3,624	4,036	4,782	4,821	5,059	5,010	5,236
Connecticut	2,637	2,577	2,769	2,738	2,906	3,039	3,875
Delaware	519	596	582	562	671	853	1,002
District of Columbia	3,686	3,961	4,129	4,551	4,730	4,667	4,543
Florida	6,667	6,864	7,456	7,868	8,224	8,247	8,908
Georgia	3,642	4,004	4,181	4,378	4,543	4,465	4,968
Hawaii	603	584	652	599	559	646	567
Idaho	454	498	564	574	518	473	518
Illinois	9,516	10,460	10,874	10,719	10,407	11,217	12,493
Indiana	3,103	3,544	3,861	3,932	4,006	4,411	4,315
Iowa	1,878	1,554	2,052	2,225	2,285	2,339	2,414
Kansas	1,333	1,545	1,630	1,546	1,592	1,802	1,621
Kentucky	1,517	1,612	1,824	1,922	1,886	1,914	2,020
Louisiana	1,624	1,637	1,743	1,753	1,647	1,789	1,897
Maine	218	249	265	234	273	292	285
Maryland	5,241	5,651	6,064	6,607	6,757	6,930	7,036
Massachusetts	8,582	8,966	9,766	10,208	10,567	11,010	11,943
Michigan	5,779	5,909	6,364	6,535	6,699	6,980	7,588

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	4,241	4,841	5,014	5,414	5,415	5,307	5,693
Mississippi	1,023	1,087	1,143	1,163	1,223	1,409	1,259
Missouri	3,461	3,834	4,047	3,925	4,067	5,244	5,918
Montana	402	425	456	400	404	463	448
Nebraska	1,001	1,063	1,242	1,304	1,292	1,443	1,556
Nevada	513	544	502	548	481	505	522
New Hampshire	723	656	621	699	713	1,042	1,495
New Jersey	4,838	4,620	4,906	4,676	5,253	5,661	6,556
New Mexico	802	873	934	976	1,017	1,038	1,028
New York	15,493	16,797	17,279	17,779	18,171	19,566	20,647
North Carolina	4,140	4,353	4,841	5,102	5,438	5,505	6,063
North Dakota	288	325	382	397	465	491	469
Ohio	5,303	5,662	6,046	5,954	6,361	6,870	7,693
Oklahoma	1,538	1,688	1,871	1,774	1,735	1,859	2,051
Oregon	1,449	1,525	1,683	1,699	1,734	1,831	1,823
Pennsylvania	8,492	8,980	9,297	9,928	10,732	10,787	11,046
Rhode Island	732	751	845	809	802	781	897
South Carolina	1,136	1,206	1,294	1,379	1,407	1,544	1,517
South Dakota	425	484	509	512	504	600	611
Tennessee	1,835	1,873	2,089	2,139	2,285	2,290	2,435
Texas	10,821	11,960	12,345	13,217	13,652	16,019	18,258
Utah	1,359	1,648	1,651	1,846	1,956	2,049	2,047
Vermont	750	747	808	1,153	762	725	729
Virginia	5,461	5,773	6,399	6,779	7,432	7,750	8,178
Washington	2,567	2,517	2,618	2,867	2,968	3,147	3,364
West Virginia	1,036	1,511	1,663	1,806	1,859	1,715	1,679

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	2,077	2,215	2,258	2,259	2,402	2,465	2,564
Wyoming	195	257	244	247	281	217	237
Puerto Rico	1,130	1,199	1,210	1,321	1,422	1,316	1,697

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

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

Description

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

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

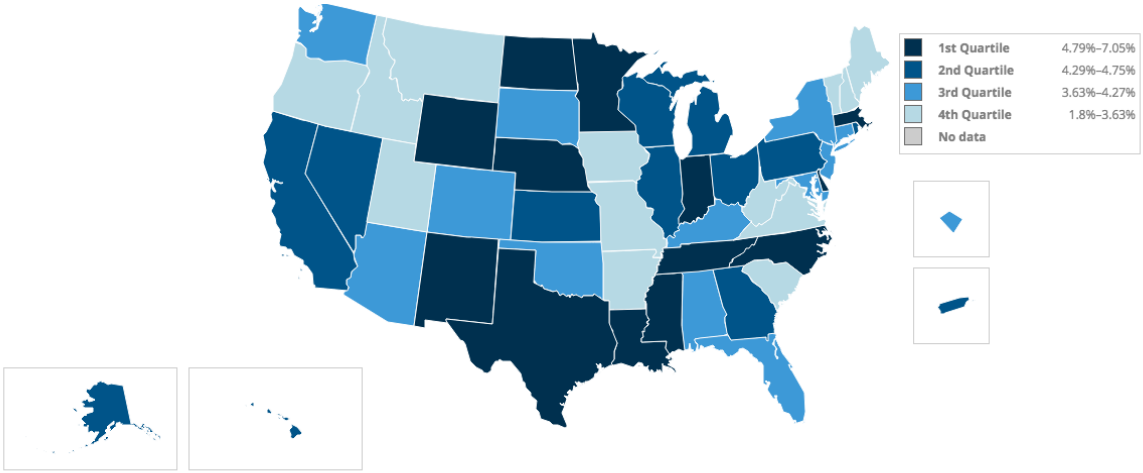
Student mobility after graduation is not accounted for, which may make this indicator less meaningful in predicting the qualifications of a state's future technical workforce. In states with a small number of S&E graduate programs, the number of S&E doctoral degrees awarded may vary considerably from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

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

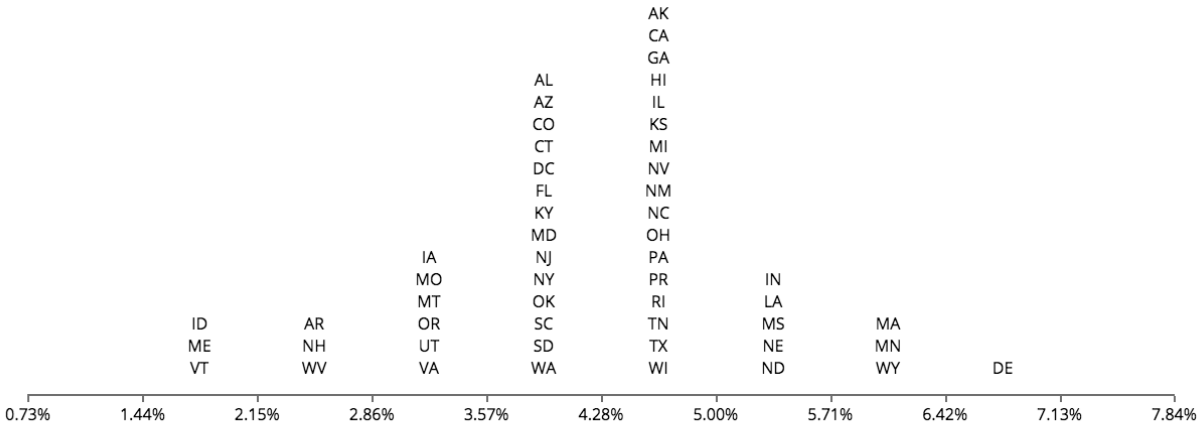
State Indicators

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

2016



Distribution of states across indicator values, 2016



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

State Indicators

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

(Percent)

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

State Indicators

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

State Indicators

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

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

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

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

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

(Percent)

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

State Indicators

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

State Indicators

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

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

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

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

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

(Percent)

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

State Indicators

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

State Indicators

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

Note(s):
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Science and Engineering Indicators 2018

State Indicators

S&E doctoral degrees

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

S&E doctoral degrees

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

S&E doctoral degrees

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

State Indicators

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

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	593	618	643	625	714	713	739
Wyoming	50	43	54	60	76	62	70
Puerto Rico	160	181	175	248	271	276	361
Science and Engineering Indicators 2018							

State Indicators

S&E degrees conferred

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

S&E degrees conferred

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

State Indicators

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

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

S-24 Average Undergraduate Charge at Public 4-Year Institutions

Description

The average annual charge for an in-state resident undergraduate student to attend a public 4-year academic institution is one indicator of how accessible higher education is to a state's students. The annual charge includes standard in-state charges for tuition, required fees, room, and board for a full-time undergraduate student who is a resident of that state. These charges were weighted by the number of full-time undergraduates attending each public institution within the state. The total charge for all public 4-year institutions in the state was divided by the total number of full-time undergraduates attending all public 4-year institutions in the state. The year is the end date of the academic year. For example, data for 2016 represent costs for the 2015–16 academic year.

Average undergraduate charge is collected from institutions by the National Center for Education Statistics in the Integrated Postsecondary Education Data System.

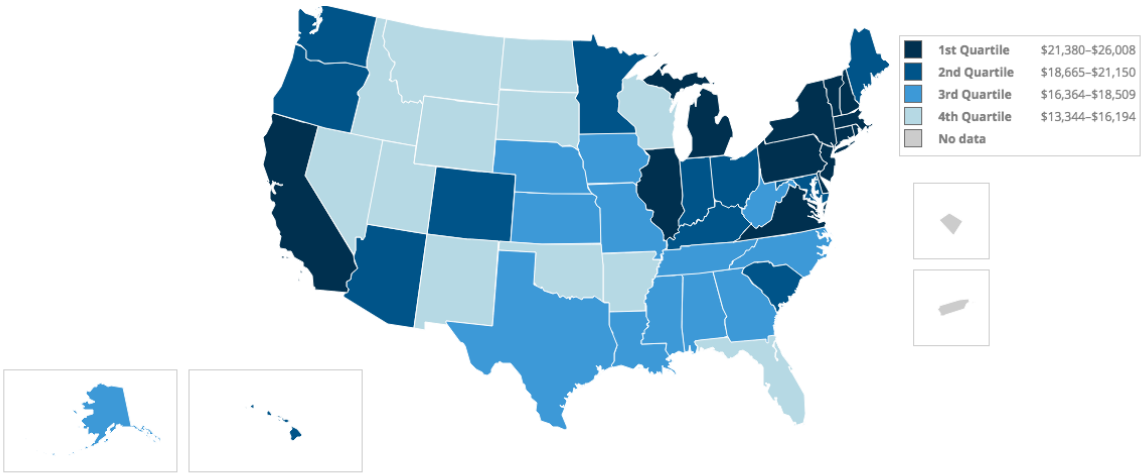
Undergraduate charges have increased significantly in all states, even in inflation-adjusted terms. To improve educational attainment, the federal government, state governments, and academic institutions provide various kinds of financial aid that reduce the cost to students. The data in this indicator do not include any adjustments for such financial aid.

Data source: U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics.

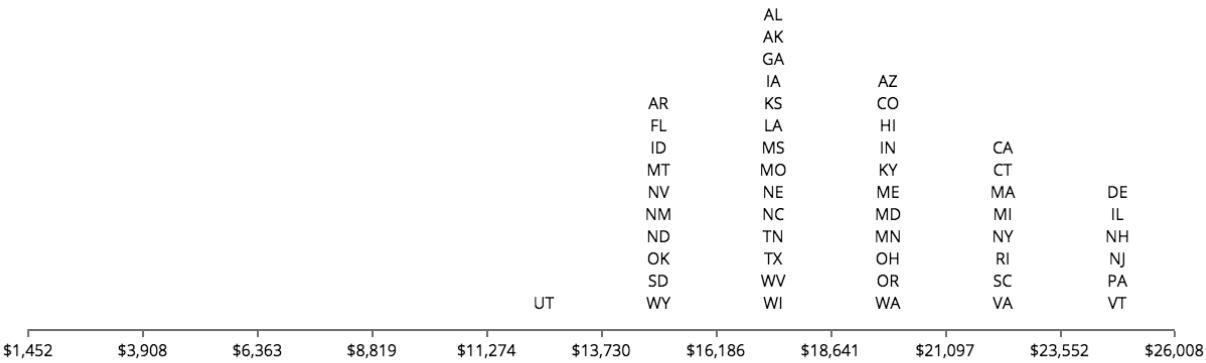
State Indicators

S-24 Average Undergraduate Charge at Public 4-Year Institutions

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

Average Undergraduate Charge at Public 4-Year Institutions

(Dollars)

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
United States	6,365	6,670	7,014	7,334	7,673	8,024	8,275	8,653	9,196	9,787
Alabama	5,295	5,429	5,735	6,002	6,362	6,558	6,743	7,349	7,647	7,903
Alaska	5,978	6,153	6,663	6,892	7,133	8,403	8,346	8,390	9,260	9,459
Arizona	5,463	5,825	5,996	6,314	6,673	6,985	7,368	7,874	8,233	8,728
Arkansas	5,296	4,912	5,055	5,402	5,933	6,172	6,408	6,797	7,287	7,740
California	7,524	7,924	8,209	8,304	8,969	9,035	9,179	9,590	10,289	10,812
Colorado	6,190	6,524	7,030	7,321	7,412	7,840	7,992	8,362	8,815	9,150
Connecticut	7,915	8,491	8,755	9,256	9,650	9,902	10,087	10,521	11,066	11,803
Delaware	7,790	8,118	8,512	8,886	9,164	9,515	9,875	10,283	10,889	11,461
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	5,861	6,201	6,251	6,559	6,891	7,283	7,483	7,947	8,364	8,714
Georgia	5,063	5,382	5,690	6,508	6,936	7,457	7,308	7,463	7,945	8,784
Hawaii	1,452	NA	NA	NA	NA	8,182	8,048	8,272	7,987	8,184
Idaho	4,977	5,203	5,306	5,681	6,075	6,321	6,312	6,765	7,162	7,560
Illinois	6,999	7,498	7,841	8,193	8,471	8,812	8,998	9,532	10,206	10,984
Indiana	6,640	6,920	7,388	8,110	8,318	8,584	8,851	9,239	9,781	10,595
Iowa	5,439	5,701	5,945	6,174	6,425	6,762	7,209	7,587	8,251	9,190
Kansas	5,137	5,441	5,688	5,895	5,985	6,236	6,312	6,654	6,986	7,751
Kentucky	5,027	5,327	5,454	5,460	5,988	6,222	6,480	6,923	7,365	7,673
Louisiana	5,214	5,268	5,503	5,637	5,551	5,919	5,946	6,329	6,711	6,905
Maine	7,503	7,763	7,899	8,262	8,571	8,926	9,089	9,371	10,292	10,322
Maryland	8,147	8,300	8,731	9,179	9,727	10,512	10,352	10,834	11,372	12,283
Massachusetts	8,503	8,562	8,770	9,045	8,875	9,099	9,248	9,207	9,361	10,764

State Indicators

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Michigan	7,668	7,948	8,189	8,645	8,931	9,205	9,506	9,825	10,551	11,357
Minnesota	5,929	6,203	6,734	7,148	7,361	7,561	7,717	8,127	9,065	9,957
Mississippi	5,088	5,250	5,416	5,532	5,549	6,015	6,475	7,195	7,613	8,008
Missouri	5,833	6,347	6,768	7,204	7,472	7,728	8,180	8,203	8,673	9,407
Montana	5,668	6,004	7,803	6,511	6,791	7,054	7,460	7,615	8,310	8,941
Nebraska	4,925	5,187	5,503	5,722	6,097	6,482	7,275	7,355	7,739	8,413
Nevada	6,379	6,905	7,400	7,707	7,312	7,596	7,802	8,247	8,575	8,973
New Hampshire	7,801	8,181	8,730	9,123	9,848	10,532	11,044	11,720	12,343	9,416
New Jersey	8,251	8,727	9,118	9,661	10,247	10,977	11,458	12,007	12,853	13,903
New Mexico	5,062	5,365	5,299	5,428	5,909	6,433	6,608	7,086	7,587	7,951
New York	7,721	7,926	8,971	9,294	9,455	9,698	10,018	10,260	10,739	10,916
North Carolina	4,706	4,857	5,119	5,440	5,920	6,525	6,480	7,076	7,655	8,305
North Dakota	5,253	5,514	5,641	5,924	6,211	6,615	7,008	6,418	6,844	7,369
Ohio	6,992	7,732	8,157	8,490	9,050	9,428	9,900	10,451	11,170	12,216
Oklahoma	4,027	4,196	4,296	5,076	5,436	5,740	5,747	6,022	6,295	6,828
Oregon	6,630	6,930	7,395	7,988	8,454	8,755	9,062	9,394	10,065	10,510
Pennsylvania	8,277	8,672	9,138	9,501	9,772	10,085	10,544	11,091	11,867	12,899
Rhode Island	8,604	9,067	9,453	9,648	9,984	10,284	10,608	11,095	11,575	12,231
South Carolina	6,206	6,756	6,964	7,238	7,199	7,989	7,709	9,096	10,038	11,024
South Dakota	4,917	5,271	5,613	5,814	5,992	6,264	6,513	6,975	7,544	7,682
Tennessee	5,019	5,131	5,373	5,498	5,793	6,386	6,569	7,658	7,780	8,298
Texas	4,934	5,177	5,471	5,911	6,319	6,756	7,512	7,614	8,057	8,636
Utah	5,125	5,334	5,389	5,559	5,931	6,196	6,291	6,598	7,411	7,367
Vermont	10,054	10,327	10,657	11,360	11,457	12,238	12,484	12,847	13,426	13,969
Virginia	7,725	7,958	8,207	8,450	8,639	8,980	8,618	8,751	8,989	9,516
Washington	6,476	7,068	7,129	7,320	7,700	7,985	8,303	8,909	9,994	10,723

State Indicators

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
West Virginia	5,687	5,912	6,119	6,348	6,557	6,755	7,100	7,290	7,628	8,175
Wisconsin	5,249	5,613	5,839	6,075	6,421	6,730	7,273	7,396	7,788	8,157
Wyoming	4,900	5,237	5,429	6,016	6,450	6,830	7,091	7,017	7,421	7,977
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national average charge for the United States is the value reported by NCES and does not include U.S. territories. Average charges are for full-time equivalent students. Average charges include in-state tuition, fees, room, and board.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics (various years), data as of March 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Average Undergraduate Charge at Public 4-Year Institutions

(Dollars)

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
United States	10,674	11,426	12,108	12,797	13,429	14,262	15,014	15,918	16,805	17,474
Alabama	8,962	9,813	9,625	10,686	11,031	12,183	13,052	14,416	15,550	16,546
Alaska	10,132	9,944	10,620	11,395	11,725	12,970	13,281	14,053	14,541	15,415
Arizona	10,149	10,857	11,480	11,966	12,275	14,098	15,710	17,083	19,274	19,064
Arkansas	8,337	8,739	9,192	9,799	10,615	11,708	11,841	12,580	13,100	13,936
California	12,288	13,354	13,685	14,349	14,885	15,679	17,652	18,933	20,670	21,029
Colorado	9,763	10,241	11,569	12,079	13,342	14,250	15,056	16,208	17,161	18,052
Connecticut	12,790	13,827	14,658	15,454	16,253	17,358	18,331	19,400	19,842	20,655
Delaware	12,502	13,351	14,326	15,203	16,162	17,199	18,383	19,541	20,926	21,940
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	8,956	9,357	10,141	10,418	10,698	11,487	11,659	12,774	13,622	14,170
Georgia	9,052	9,430	10,062	10,320	10,962	11,532	12,552	14,019	14,828	15,331
Hawaii	8,747	9,141	9,042	11,032	12,178	13,358	14,182	15,133	16,397	16,987
Idaho	8,082	9,061	8,982	9,528	9,861	10,403	10,895	11,773	12,347	13,476
Illinois	11,795	12,789	13,976	15,386	16,782	18,228	19,355	20,054	21,178	22,222
Indiana	11,619	12,232	12,388	13,148	14,084	14,976	15,590	16,912	17,034	17,758
Iowa	10,876	11,539	12,329	12,583	13,189	13,828	14,174	14,855	15,663	16,358
Kansas	8,587	9,392	9,980	10,686	11,335	11,999	12,578	13,229	13,432	13,901
Kentucky	8,515	9,401	10,663	11,902	12,611	13,213	14,228	15,002	15,921	16,581
Louisiana	7,460	7,968	8,506	9,021	9,462	10,380	10,873	11,856	12,596	14,245
Maine	10,994	11,838	12,568	12,869	14,818	16,162	17,020	17,767	18,631	18,676
Maryland	13,407	14,086	14,793	15,209	15,661	16,112	16,407	16,963	17,420	18,094
Massachusetts	12,245	13,686	14,651	15,211	16,167	17,103	17,819	19,164	20,328	21,094

State Indicators

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Michigan	12,187	12,659	13,693	14,515	16,014	17,034	17,852	18,333	19,240	19,865
Minnesota	10,826	11,971	12,777	13,780	14,173	15,097	15,730	16,385	17,354	17,998
Mississippi	8,535	8,997	9,461	10,049	10,794	11,093	11,583	12,051	12,831	13,583
Missouri	10,355	11,368	11,861	12,585	13,383	14,056	14,368	15,110	15,665	16,236
Montana	9,347	9,870	10,613	11,294	11,606	11,970	12,399	12,891	13,074	13,572
Nebraska	9,611	10,702	11,286	11,138	11,857	12,652	13,265	14,081	14,577	15,291
Nevada	10,310	10,526	10,865	11,581	12,152	12,824	13,682	14,172	15,141	15,944
New Hampshire	13,843	14,538	15,479	16,606	18,266	19,228	20,492	21,481	23,314	24,705
New Jersey	15,088	16,344	17,708	18,705	19,479	20,727	21,591	22,592	23,151	23,773
New Mexico	8,255	8,683	9,579	9,947	10,619	11,261	11,809	12,520	12,877	13,225
New York	12,004	12,442	13,275	13,683	14,143	14,878	16,147	16,606	17,559	18,397
North Carolina	8,780	9,421	9,675	10,471	10,894	11,354	11,874	12,874	13,692	14,514
North Dakota	8,035	9,018	9,829	10,634	11,137	11,426	11,891	12,503	12,846	13,210
Ohio	13,346	15,251	16,032	16,902	16,353	16,567	17,133	17,964	18,737	19,453
Oklahoma	7,907	8,448	9,404	9,825	10,607	12,355	11,444	11,938	12,662	13,005
Oregon	11,632	12,201	12,720	13,185	13,852	15,183	15,629	16,402	17,601	18,526
Pennsylvania	13,734	14,759	15,464	16,311	17,218	18,147	19,017	19,916	20,978	21,637
Rhode Island	12,767	13,550	14,315	15,034	15,809	17,289	18,509	19,815	20,649	21,582
South Carolina	12,668	12,158	13,145	14,194	15,091	16,137	16,788	17,641	18,073	18,655
South Dakota	8,406	8,965	9,493	10,013	10,530	11,357	12,022	12,603	13,327	13,858
Tennessee	8,934	9,443	9,956	10,534	11,343	12,057	12,748	13,759	14,612	15,416
Texas	9,180	10,218	10,973	11,810	12,337	13,222	13,764	14,585	15,364	15,940
Utah	7,878	8,344	8,745	9,052	9,685	10,301	10,109	10,768	11,297	12,076
Vermont	14,769	15,656	16,571	17,271	18,295	19,688	20,735	21,530	22,504	23,290
Virginia	10,903	11,621	12,279	13,143	13,926	14,850	15,616	18,110	17,963	18,843
Washington	11,335	11,884	12,384	13,070	13,512	14,153	15,189	16,253	17,690	18,925

State Indicators

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
West Virginia	8,764	9,508	9,992	10,620	11,425	12,128	12,426	12,799	13,476	14,126
Wisconsin	9,061	9,867	10,560	11,230	11,750	12,400	13,190	13,819	14,718	15,446
Wyoming	8,485	8,514	8,946	9,627	10,068	10,556	10,952	11,467	12,022	12,479
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national average charge for the United States is the value reported by NCES and does not include U.S. territories. Average charges are for full-time equivalent students. Average charges include in-state tuition, fees, room, and board.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics (various years), data as of March 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Average Undergraduate Charge at Public 4-Year Institutions

(Dollars)

State	2014	2015	2016
United States	18,100	18,632	19,189
Alabama	17,245	17,859	18,509
Alaska	15,693	16,814	16,701
Arizona	19,781	19,839	20,621
Arkansas	14,651	15,320	15,976
California	21,280	21,749	22,151
Colorado	18,977	19,710	20,594
Connecticut	21,638	22,435	23,351
Delaware	22,682	23,161	23,566
District of Columbia	7,255	NA	NA
Florida	14,369	14,677	14,457
Georgia	16,060	16,522	17,292
Hawaii	18,023	19,131	20,098
Idaho	13,817	13,644	14,211
Illinois	23,093	23,792	24,098
Indiana	18,249	18,393	18,712
Iowa	16,533	16,708	16,748
Kansas	14,633	15,584	16,783
Kentucky	17,280	17,530	18,702
Louisiana	15,238	16,045	17,287
Maine	19,121	18,914	18,767
Maryland	18,879	19,375	20,076
Massachusetts	21,814	22,214	23,389

State Indicators

State	2014	2015	2016
Michigan	20,412	20,843	21,380
Minnesota	18,387	18,726	19,266
Mississippi	14,411	15,710	16,434
Missouri	16,785	17,143	17,418
Montana	14,081	14,448	14,853
Nebraska	15,635	16,199	16,761
Nevada	16,034	15,138	15,570
New Hampshire	25,245	25,821	26,008
New Jersey	24,243	24,825	25,544
New Mexico	14,103	14,778	15,029
New York	19,754	20,549	21,489
North Carolina	15,195	15,771	16,364
North Dakota	13,711	14,217	14,847
Ohio	19,997	20,537	20,931
Oklahoma	13,493	14,147	14,677
Oregon	19,152	19,654	20,516
Pennsylvania	22,575	23,519	24,236
Rhode Island	21,761	22,030	22,722
South Carolina	19,502	20,354	21,150
South Dakota	14,429	14,983	16,108
Tennessee	16,263	17,147	17,735
Texas	16,209	16,872	17,395
Utah	12,800	12,970	13,344
Vermont	24,071	24,986	25,910
Virginia	19,845	20,941	21,889
Washington	19,282	18,863	18,665

State Indicators

State	2014	2015	2016
West Virginia	14,834	15,644	16,426
Wisconsin	15,720	15,938	16,194
Wyoming	12,949	13,457	13,942
Puerto Rico	NA	NA	NA

NA not available

Note(s):
The national average charge for the United States is the value reported by NCES and does not include U.S. territories. Average charges are for full-time equivalent students. Average charges include in-state tuition, fees, room, and board.

Source(s):
U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics (various years), data as of March 2017.

Recommended Citation: National Science Board. 2018. "Average Undergraduate Charge at Public 4-Year Institutions." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/ave-undergraduate-charge-at-public-4-year-institutions

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Science and Engineering Indicators 2018

State Indicators

S-25 Average Undergraduate Charge at Public 4-Year Institutions as a Percentage of Disposable Personal Income

Description

This indicator represents a broad measure of how affordable higher education at a public institution is for the average resident. It is calculated by dividing the average undergraduate charge at public 4-year institutions in the state by the per capita disposable personal income of state residents. The average undergraduate charge includes standard in-state tuition, room, board, and required fees for a student who is a resident of the state; it does not include any adjustment for financial aid that a student might receive. Data on state expenditures on student aid, which may reduce the nominal charges facing students, are provided in indicator S-26. The year is the end date of the academic year. For example, data for 2016 represent costs for the 2015–16 academic year.

Average undergraduate charge is collected from institutions by the National Center for Education Statistics in the Integrated Postsecondary Education Data System.

Disposable personal income is the income available to state residents for spending or saving. It is calculated as personal income minus personal current taxes paid to federal, state, and local governments.

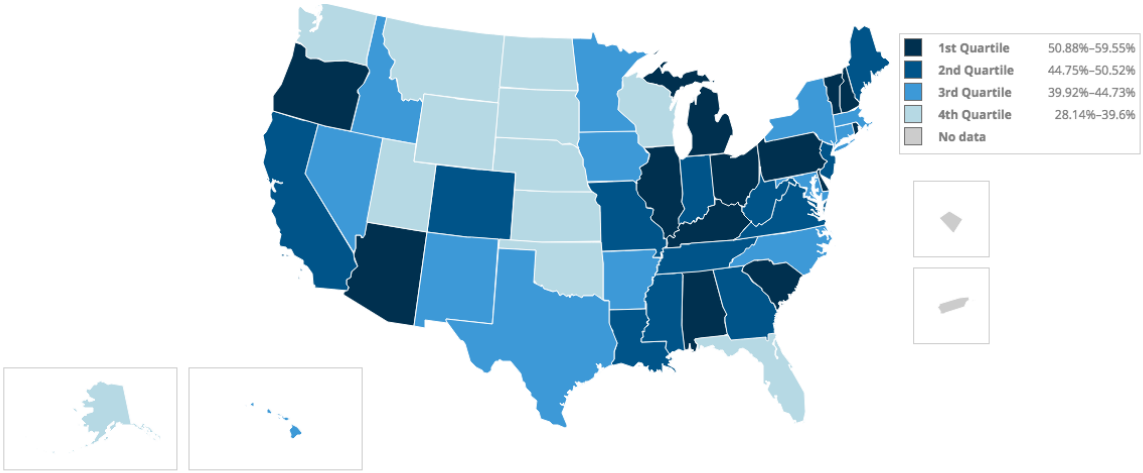
High values indicate that a year of undergraduate education consumes a high percentage of the disposable personal income of state residents. Undergraduate charges have generally increased relative to per capita income, and beginning in the early 2010s, the cost of a year of undergraduate education at a public institution began to exceed 50% of per capita disposable income in many states. Large increases in state per capita income in a given period may mask increases in undergraduate charges.

Data sources: U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics; U.S. Bureau of Economic Analysis, State and Local Personal Income data.

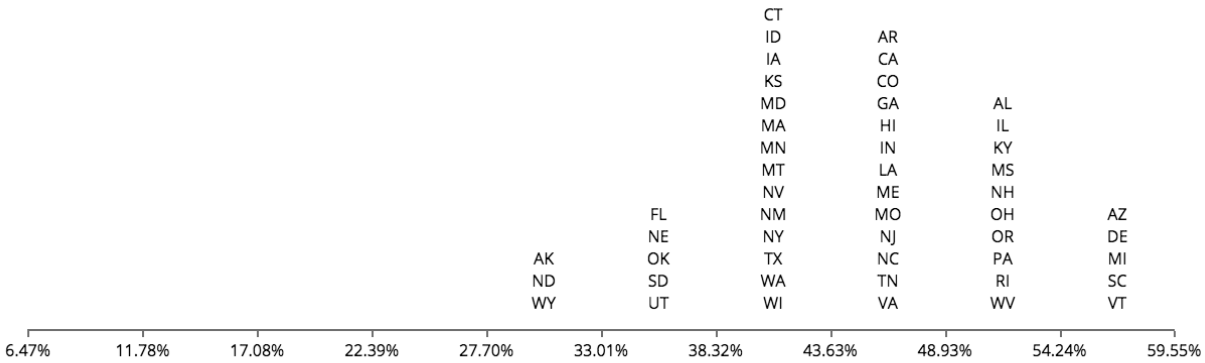
State Indicators

S-25 Average Undergraduate Charge at Public 4-Year Institutions as a Percentage of Disposable Personal Income

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

Average Undergraduate Charge at Public 4-Year Institutions as a Percentage of Disposable Personal Income

(Percent)

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
United States	31.97	32.13	32.44	32.54	32.28	32.56	31.56	31.82	32.67	33.48
Alabama	31.23	30.59	31.33	31.51	31.65	31.80	31.32	33.11	33.25	32.74
Alaska	26.28	26.35	28.06	27.79	27.87	31.93	29.58	28.49	29.78	28.99
Arizona	30.97	31.72	31.50	31.64	31.64	32.22	32.19	33.52	33.75	34.21
Arkansas	33.18	29.50	29.03	30.09	31.52	31.78	31.69	32.04	33.28	33.28
California	36.06	36.55	36.38	35.44	36.03	35.14	33.57	33.73	34.66	34.68
Colorado	30.15	30.05	31.00	31.03	29.14	29.36	27.66	27.82	28.70	29.16
Connecticut	30.51	31.35	31.47	31.72	31.03	30.35	28.66	28.51	28.90	30.17
Delaware	37.49	37.49	37.60	38.58	36.21	35.18	33.10	31.53	32.32	33.46
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	28.90	29.12	28.48	29.10	28.94	29.62	28.74	29.31	29.67	29.71
Georgia	27.32	27.63	27.85	30.85	30.78	31.78	29.47	29.02	29.89	31.94
Hawaii	6.47	NA	NA	NA	NA	33.44	31.17	30.97	28.40	27.86
Idaho	29.25	29.28	28.75	30.21	30.35	30.35	28.74	29.75	30.23	31.09
Illinois	32.75	33.37	33.27	33.40	32.97	33.18	31.65	32.38	33.57	35.18
Indiana	35.59	35.90	36.73	38.82	37.20	37.08	35.88	36.70	37.95	40.09
Iowa	29.51	29.92	28.73	28.84	28.80	29.68	29.61	30.26	31.56	34.28
Kansas	26.70	27.51	27.24	26.98	26.03	26.42	25.50	25.97	26.64	28.51
Kentucky	30.62	31.39	30.60	29.25	30.62	30.78	29.80	30.98	31.84	32.30
Louisiana	30.81	29.95	30.40	29.93	28.22	29.44	28.08	28.01	28.55	28.38
Maine	42.10	41.70	40.55	40.69	39.90	39.74	38.09	37.32	39.09	37.23
Maryland	36.03	35.67	36.36	37.10	36.55	37.55	34.48	34.50	34.72	35.94
Massachusetts	37.08	35.79	35.05	34.60	32.53	31.66	29.73	27.91	27.31	30.36

State Indicators

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Michigan	38.83	38.52	38.24	38.68	38.02	37.37	36.18	36.67	38.65	40.44
Minnesota	29.56	29.69	30.56	31.13	29.86	29.31	28.14	28.60	30.82	32.07
Mississippi	33.53	33.22	32.69	32.02	30.67	32.47	33.30	34.98	35.99	36.37
Missouri	30.82	32.35	33.05	33.57	33.56	33.58	33.51	32.71	33.34	34.58
Montana	34.85	35.54	44.73	36.10	35.39	36.17	36.20	35.40	37.01	37.29
Nebraska	25.45	25.77	25.38	26.10	26.25	26.85	28.70	27.75	28.16	28.64
Nevada	29.54	30.75	31.74	31.91	28.82	28.76	28.08	28.86	29.55	29.79
New Hampshire	36.02	36.13	37.29	37.20	37.05	37.88	36.05	36.28	36.92	27.53
New Jersey	33.81	33.80	33.91	34.28	34.74	36.05	34.65	35.11	35.75	37.39
New Mexico	31.06	31.28	30.08	29.89	31.32	33.69	32.25	32.36	33.39	33.65
New York	34.06	33.32	36.29	35.98	35.19	34.52	33.51	33.52	33.76	33.36
North Carolina	25.57	25.22	25.43	25.79	26.96	28.74	27.35	29.38	31.12	32.52
North Dakota	29.70	31.43	28.73	31.00	29.40	30.81	29.83	26.75	27.39	26.93
Ohio	36.55	38.91	39.62	39.17	39.78	40.17	40.31	41.37	42.94	45.18
Oklahoma	24.36	24.52	24.06	27.39	28.19	29.31	27.26	27.01	27.27	28.17
Oregon	35.62	35.23	35.71	37.25	37.73	38.16	37.14	37.59	39.52	39.66
Pennsylvania	41.45	41.77	42.17	42.04	41.29	40.98	40.16	40.78	41.96	43.72
Rhode Island	43.11	43.15	43.84	42.84	41.87	41.67	40.60	40.52	39.95	39.91
South Carolina	37.03	38.69	38.15	38.03	35.96	38.58	35.06	40.30	42.93	45.68
South Dakota	26.73	28.50	27.53	28.33	27.19	27.37	26.86	27.68	29.48	27.23
Tennessee	27.18	26.39	26.74	26.31	25.57	27.44	26.86	30.78	30.23	30.95
Texas	27.05	27.13	27.39	27.92	28.08	29.01	30.31	29.24	30.41	31.66
Utah	32.47	31.94	30.50	29.90	30.52	30.87	29.87	30.31	32.96	31.79
Vermont	54.27	53.29	52.97	54.35	51.27	51.79	49.49	47.93	48.29	47.86
Virginia	36.42	36.23	36.20	35.54	34.76	34.47	30.95	30.11	29.91	29.92
Washington	30.72	32.39	31.13	30.43	30.03	29.99	29.27	30.57	33.16	34.22

State Indicators

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
West Virginia	36.29	36.64	36.49	36.37	36.02	36.03	35.66	34.67	34.33	36.01
Wisconsin	27.25	28.08	28.03	27.85	27.71	27.95	28.40	27.59	27.87	28.48
Wyoming	26.17	26.97	27.55	28.72	29.09	28.89	28.36	26.26	26.33	26.40
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national average charge for the United States is the value reported by NCES and does not include U.S. territories. Average charges are for full-time equivalent students. Average charges include in-state tuition, fees, room, and board; The national value for the United States for per capita disposable income is the value reported by the Bureau of Economic Analysis and does not include U.S. territories.

Source(s):
National Center for Education Statistics, Digest of Education Statistics (various years), data as of March 2017; U.S. Bureau of Economic Analysis, State and Local Personal Income data (various years), data as of September 2017.

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Science and Engineering Indicators 2018

State Indicators

Average Undergraduate Charge at Public 4-Year Institutions as a Percentage of Disposable Personal Income

(Percent)

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
United States	34.73	35.93	36.04	36.70	37.17	40.03	41.39	42.11	42.57	44.59
Alabama	34.54	36.37	34.21	36.58	36.71	40.52	42.19	45.66	48.00	51.01
Alaska	29.86	27.89	28.50	28.76	27.15	29.95	29.60	29.82	30.00	32.90
Arizona	37.42	37.61	37.13	37.55	38.16	45.23	50.94	53.95	58.82	57.85
Arkansas	34.00	34.44	34.65	35.19	36.74	40.71	40.64	40.98	39.78	42.90
California	36.90	38.65	37.15	38.01	38.80	41.43	45.81	46.97	48.69	50.13
Colorado	30.42	30.49	32.92	33.09	35.79	39.79	42.27	42.80	43.08	43.92
Connecticut	31.23	32.59	32.16	32.12	31.48	32.64	33.73	35.30	35.50	38.29
Delaware	35.87	38.43	39.37	41.42	43.88	46.08	49.66	50.15	53.80	56.43
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	28.99	28.90	29.34	29.35	29.98	33.62	32.82	34.67	36.62	38.71
Georgia	31.57	31.78	32.75	32.90	34.96	36.84	39.93	42.47	44.71	46.32
Hawaii	28.12	28.07	26.30	30.69	32.37	35.22	37.11	38.88	40.65	42.37
Idaho	31.26	34.48	32.20	32.89	33.22	35.95	37.35	38.80	39.09	41.71
Illinois	36.39	38.36	39.60	41.70	44.25	49.30	51.75	52.07	52.76	54.71
Indiana	42.28	43.96	42.41	43.97	44.93	48.10	48.85	50.38	48.50	50.50
Iowa	37.36	39.06	39.74	38.36	37.89	40.49	41.01	40.29	40.87	42.29
Kansas	31.02	32.58	31.76	31.95	30.98	33.62	35.42	34.60	33.23	33.79
Kentucky	33.80	36.14	39.08	42.26	42.84	44.83	47.35	48.20	49.44	51.90
Louisiana	29.44	29.45	28.15	28.03	27.91	31.13	31.72	33.95	34.56	39.30
Maine	37.83	40.35	40.91	40.53	44.76	47.89	49.72	50.52	51.76	52.48
Maryland	36.80	37.47	37.31	37.43	36.60	37.19	37.13	37.19	37.21	39.62
Massachusetts	32.87	35.48	35.39	35.78	36.29	37.64	38.31	40.27	41.06	43.49

State Indicators

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Michigan	42.01	43.02	45.52	47.05	50.43	54.78	55.71	54.48	55.40	56.99
Minnesota	32.95	36.18	37.19	38.50	37.97	41.47	42.01	41.84	41.83	44.00
Mississippi	36.58	36.60	37.27	37.49	38.65	40.01	41.01	41.06	42.23	44.42
Missouri	36.14	39.03	38.88	39.85	40.40	42.29	42.94	43.99	43.56	45.59
Montana	36.49	36.81	37.26	37.60	36.63	38.24	38.28	37.73	36.44	38.45
Nebraska	31.54	34.73	35.51	32.82	32.89	35.23	35.92	34.57	35.04	37.20
Nevada	32.22	30.70	30.65	32.50	34.85	38.57	40.56	40.98	42.52	45.74
New Hampshire	38.29	39.24	39.21	41.00	43.82	45.54	47.32	47.70	49.24	52.96
New Jersey	38.95	41.43	42.27	43.29	43.40	46.11	47.50	48.26	47.67	49.56
New Mexico	33.15	33.24	34.99	34.90	35.02	37.64	38.62	39.32	39.59	41.89
New York	35.12	35.27	35.61	34.85	35.31	36.59	38.97	38.49	38.16	40.25
North Carolina	31.87	32.77	31.96	32.90	32.28	34.72	37.01	39.33	39.33	43.06
North Dakota	29.25	31.22	33.02	32.42	30.02	31.03	29.85	28.69	25.58	26.79
Ohio	47.26	52.94	53.17	54.12	50.39	51.27	52.20	51.77	52.00	53.79
Oklahoma	30.30	30.15	30.82	31.32	30.52	38.53	34.73	34.28	33.95	33.67
Oregon	41.61	42.99	41.98	41.89	42.53	47.60	48.86	49.55	50.75	53.62
Pennsylvania	43.77	45.78	45.93	46.05	46.57	49.34	50.29	50.76	51.14	52.98
Rhode Island	39.90	41.25	41.30	41.67	42.50	46.47	47.76	50.03	49.77	52.46
South Carolina	50.05	46.60	47.96	49.69	50.91	55.42	56.83	57.34	56.27	58.61
South Dakota	28.05	28.69	29.42	28.23	27.77	30.72	31.39	30.54	32.19	34.01
Tennessee	31.68	32.65	33.11	33.92	35.02	37.16	38.29	39.67	40.68	43.22
Texas	32.73	34.34	34.79	35.88	34.96	39.03	39.54	39.39	39.17	40.84
Utah	32.38	32.55	31.71	31.16	31.98	35.80	35.03	35.37	35.31	37.53
Vermont	47.74	50.29	50.21	50.01	50.12	53.37	55.37	54.81	55.24	56.82
Virginia	32.33	32.84	32.93	33.83	34.92	37.51	38.62	43.21	41.12	44.36
Washington	33.78	34.73	34.10	33.84	33.44	36.65	39.20	40.58	41.11	44.04

State Indicators

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
West Virginia	37.32	39.35	38.78	40.14	40.69	42.19	42.37	41.65	42.56	45.11
Wisconsin	30.43	32.49	33.08	33.88	34.27	36.10	37.88	37.97	38.69	40.82
Wyoming	26.68	24.90	23.59	24.68	23.55	26.42	26.52	25.58	25.62	26.64
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national average charge for the United States is the value reported by NCES and does not include U.S. territories. Average charges are for full-time equivalent students. Average charges include in-state tuition, fees, room, and board; The national value for the United States for per capita disposable income is the value reported by the Bureau of Economic Analysis and does not include U.S. territories.

Source(s):
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Science and Engineering Indicators 2018

State Indicators

Average Undergraduate Charge at Public 4-Year Institutions as a Percentage of Disposable Personal Income

(Percent)

State	2014	2015	2016
United States	44.26	43.93	44.43
Alabama	51.53	51.74	52.65
Alaska	31.53	32.76	32.91
Arizona	57.64	55.80	56.79
Arkansas	42.68	43.53	44.57
California	48.15	46.51	45.89
Colorado	43.38	43.54	45.34
Connecticut	38.65	39.13	39.94
Delaware	56.65	55.67	55.45
District of Columbia	12.18	NA	NA
Florida	37.32	36.35	35.39
Georgia	46.13	45.46	46.25
Hawaii	43.02	43.94	44.73
Idaho	41.11	39.07	40.04
Illinois	54.23	53.94	53.35
Indiana	50.16	49.16	48.45
Iowa	41.65	40.92	40.80
Kansas	35.04	37.02	39.60
Kentucky	52.08	51.08	53.89
Louisiana	40.12	41.22	44.90
Maine	51.71	49.43	47.58
Maryland	40.31	39.95	39.99
Massachusetts	43.61	42.04	43.16

State Indicators

State	2014	2015	2016
Michigan	56.22	54.67	54.55
Minnesota	43.16	42.64	43.06
Mississippi	45.85	49.38	50.52
Missouri	45.75	45.62	45.74
Montana	38.93	38.32	38.90
Nebraska	36.08	36.52	37.39
Nevada	43.78	39.20	39.92
New Hampshire	53.63	52.99	51.94
New Jersey	48.68	47.94	48.20
New Mexico	42.19	42.83	42.91
New York	42.07	42.34	43.43
North Carolina	43.08	43.07	43.74
North Dakota	26.62	28.62	30.05
Ohio	53.25	52.83	52.77
Oklahoma	32.97	35.63	38.03
Oregon	52.45	51.10	52.03
Pennsylvania	53.22	53.72	54.22
Rhode Island	51.33	50.04	50.88
South Carolina	58.31	58.46	59.55
South Dakota	34.57	34.62	37.10
Tennessee	44.21	44.58	44.75
Texas	39.39	40.12	41.81
Utah	38.12	36.86	36.72
Vermont	56.98	57.13	57.82
Virginia	45.21	46.08	47.39
Washington	42.28	39.94	38.38

State Indicators

State	2014	2015	2016
West Virginia	46.03	47.52	49.64
Wisconsin	39.98	39.33	39.25
Wyoming	25.80	26.76	28.14
Puerto Rico	NA	NA	NA

NA not available

Note(s):
The national average charge for the United States is the value reported by NCES and does not include U.S. territories. Average charges are for full-time equivalent students. Average charges include in-state tuition, fees, room, and board; The national value for the United States for per capita disposable income is the value reported by the Bureau of Economic Analysis and does not include U.S. territories.

Source(s):
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Science and Engineering Indicators 2018

State Indicators

Average undergraduate charge at public 4-year institutions

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
United States	6,365	6,670	7,014	7,334	7,673	8,024	8,275	8,653	9,196	9,787
Alabama	5,295	5,429	5,735	6,002	6,362	6,558	6,743	7,349	7,647	7,903
Alaska	5,978	6,153	6,663	6,892	7,133	8,403	8,346	8,390	9,260	9,459
Arizona	5,463	5,825	5,996	6,314	6,673	6,985	7,368	7,874	8,233	8,728
Arkansas	5,296	4,912	5,055	5,402	5,933	6,172	6,408	6,797	7,287	7,740
California	7,524	7,924	8,209	8,304	8,969	9,035	9,179	9,590	10,289	10,812
Colorado	6,190	6,524	7,030	7,321	7,412	7,840	7,992	8,362	8,815	9,150
Connecticut	7,915	8,491	8,755	9,256	9,650	9,902	10,087	10,521	11,066	11,803
Delaware	7,790	8,118	8,512	8,886	9,164	9,515	9,875	10,283	10,889	11,461
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	5,861	6,201	6,251	6,559	6,891	7,283	7,483	7,947	8,364	8,714
Georgia	5,063	5,382	5,690	6,508	6,936	7,457	7,308	7,463	7,945	8,784
Hawaii	1,452	NA	NA	NA	NA	8,182	8,048	8,272	7,987	8,184
Idaho	4,977	5,203	5,306	5,681	6,075	6,321	6,312	6,765	7,162	7,560
Illinois	6,999	7,498	7,841	8,193	8,471	8,812	8,998	9,532	10,206	10,984
Indiana	6,640	6,920	7,388	8,110	8,318	8,584	8,851	9,239	9,781	10,595
Iowa	5,439	5,701	5,945	6,174	6,425	6,762	7,209	7,587	8,251	9,190
Kansas	5,137	5,441	5,688	5,895	5,985	6,236	6,312	6,654	6,986	7,751
Kentucky	5,027	5,327	5,454	5,460	5,988	6,222	6,480	6,923	7,365	7,673
Louisiana	5,214	5,268	5,503	5,637	5,551	5,919	5,946	6,329	6,711	6,905
Maine	7,503	7,763	7,899	8,262	8,571	8,926	9,089	9,371	10,292	10,322
Maryland	8,147	8,300	8,731	9,179	9,727	10,512	10,352	10,834	11,372	12,283
Massachusetts	8,503	8,562	8,770	9,045	8,875	9,099	9,248	9,207	9,361	10,764
Michigan	7,668	7,948	8,189	8,645	8,931	9,205	9,506	9,825	10,551	11,357

State Indicators

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Minnesota	5,929	6,203	6,734	7,148	7,361	7,561	7,717	8,127	9,065	9,957
Mississippi	5,088	5,250	5,416	5,532	5,549	6,015	6,475	7,195	7,613	8,008
Missouri	5,833	6,347	6,768	7,204	7,472	7,728	8,180	8,203	8,673	9,407
Montana	5,668	6,004	7,803	6,511	6,791	7,054	7,460	7,615	8,310	8,941
Nebraska	4,925	5,187	5,503	5,722	6,097	6,482	7,275	7,355	7,739	8,413
Nevada	6,379	6,905	7,400	7,707	7,312	7,596	7,802	8,247	8,575	8,973
New Hampshire	7,801	8,181	8,730	9,123	9,848	10,532	11,044	11,720	12,343	9,416
New Jersey	8,251	8,727	9,118	9,661	10,247	10,977	11,458	12,007	12,853	13,903
New Mexico	5,062	5,365	5,299	5,428	5,909	6,433	6,608	7,086	7,587	7,951
New York	7,721	7,926	8,971	9,294	9,455	9,698	10,018	10,260	10,739	10,916
North Carolina	4,706	4,857	5,119	5,440	5,920	6,525	6,480	7,076	7,655	8,305
North Dakota	5,253	5,514	5,641	5,924	6,211	6,615	7,008	6,418	6,844	7,369
Ohio	6,992	7,732	8,157	8,490	9,050	9,428	9,900	10,451	11,170	12,216
Oklahoma	4,027	4,196	4,296	5,076	5,436	5,740	5,747	6,022	6,295	6,828
Oregon	6,630	6,930	7,395	7,988	8,454	8,755	9,062	9,394	10,065	10,510
Pennsylvania	8,277	8,672	9,138	9,501	9,772	10,085	10,544	11,091	11,867	12,899
Rhode Island	8,604	9,067	9,453	9,648	9,984	10,284	10,608	11,095	11,575	12,231
South Carolina	6,206	6,756	6,964	7,238	7,199	7,989	7,709	9,096	10,038	11,024
South Dakota	4,917	5,271	5,613	5,814	5,992	6,264	6,513	6,975	7,544	7,682
Tennessee	5,019	5,131	5,373	5,498	5,793	6,386	6,569	7,658	7,780	8,298
Texas	4,934	5,177	5,471	5,911	6,319	6,756	7,512	7,614	8,057	8,636
Utah	5,125	5,334	5,389	5,559	5,931	6,196	6,291	6,598	7,411	7,367
Vermont	10,054	10,327	10,657	11,360	11,457	12,238	12,484	12,847	13,426	13,969
Virginia	7,725	7,958	8,207	8,450	8,639	8,980	8,618	8,751	8,989	9,516
Washington	6,476	7,068	7,129	7,320	7,700	7,985	8,303	8,909	9,994	10,723
West Virginia	5,687	5,912	6,119	6,348	6,557	6,755	7,100	7,290	7,628	8,175

State Indicators

State	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Wisconsin	5,249	5,613	5,839	6,075	6,421	6,730	7,273	7,396	7,788	8,157
Wyoming	4,900	5,237	5,429	6,016	6,450	6,830	7,091	7,017	7,421	7,977
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Average undergraduate charge at public 4-year institutions

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
United States	10,674	11,426	12,108	12,797	13,429	14,262	15,014	15,918	16,805	17,474
Alabama	8,962	9,813	9,625	10,686	11,031	12,183	13,052	14,416	15,550	16,546
Alaska	10,132	9,944	10,620	11,395	11,725	12,970	13,281	14,053	14,541	15,415
Arizona	10,149	10,857	11,480	11,966	12,275	14,098	15,710	17,083	19,274	19,064
Arkansas	8,337	8,739	9,192	9,799	10,615	11,708	11,841	12,580	13,100	13,936
California	12,288	13,354	13,685	14,349	14,885	15,679	17,652	18,933	20,670	21,029
Colorado	9,763	10,241	11,569	12,079	13,342	14,250	15,056	16,208	17,161	18,052
Connecticut	12,790	13,827	14,658	15,454	16,253	17,358	18,331	19,400	19,842	20,655
Delaware	12,502	13,351	14,326	15,203	16,162	17,199	18,383	19,541	20,926	21,940
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	8,956	9,357	10,141	10,418	10,698	11,487	11,659	12,774	13,622	14,170
Georgia	9,052	9,430	10,062	10,320	10,962	11,532	12,552	14,019	14,828	15,331
Hawaii	8,747	9,141	9,042	11,032	12,178	13,358	14,182	15,133	16,397	16,987
Idaho	8,082	9,061	8,982	9,528	9,861	10,403	10,895	11,773	12,347	13,476
Illinois	11,795	12,789	13,976	15,386	16,782	18,228	19,355	20,054	21,178	22,222
Indiana	11,619	12,232	12,388	13,148	14,084	14,976	15,590	16,912	17,034	17,758
Iowa	10,876	11,539	12,329	12,583	13,189	13,828	14,174	14,855	15,663	16,358
Kansas	8,587	9,392	9,980	10,686	11,335	11,999	12,578	13,229	13,432	13,901
Kentucky	8,515	9,401	10,663	11,902	12,611	13,213	14,228	15,002	15,921	16,581
Louisiana	7,460	7,968	8,506	9,021	9,462	10,380	10,873	11,856	12,596	14,245
Maine	10,994	11,838	12,568	12,869	14,818	16,162	17,020	17,767	18,631	18,676
Maryland	13,407	14,086	14,793	15,209	15,661	16,112	16,407	16,963	17,420	18,094
Massachusetts	12,245	13,686	14,651	15,211	16,167	17,103	17,819	19,164	20,328	21,094
Michigan	12,187	12,659	13,693	14,515	16,014	17,034	17,852	18,333	19,240	19,865

State Indicators

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Minnesota	10,826	11,971	12,777	13,780	14,173	15,097	15,730	16,385	17,354	17,998
Mississippi	8,535	8,997	9,461	10,049	10,794	11,093	11,583	12,051	12,831	13,583
Missouri	10,355	11,368	11,861	12,585	13,383	14,056	14,368	15,110	15,665	16,236
Montana	9,347	9,870	10,613	11,294	11,606	11,970	12,399	12,891	13,074	13,572
Nebraska	9,611	10,702	11,286	11,138	11,857	12,652	13,265	14,081	14,577	15,291
Nevada	10,310	10,526	10,865	11,581	12,152	12,824	13,682	14,172	15,141	15,944
New Hampshire	13,843	14,538	15,479	16,606	18,266	19,228	20,492	21,481	23,314	24,705
New Jersey	15,088	16,344	17,708	18,705	19,479	20,727	21,591	22,592	23,151	23,773
New Mexico	8,255	8,683	9,579	9,947	10,619	11,261	11,809	12,520	12,877	13,225
New York	12,004	12,442	13,275	13,683	14,143	14,878	16,147	16,606	17,559	18,397
North Carolina	8,780	9,421	9,675	10,471	10,894	11,354	11,874	12,874	13,692	14,514
North Dakota	8,035	9,018	9,829	10,634	11,137	11,426	11,891	12,503	12,846	13,210
Ohio	13,346	15,251	16,032	16,902	16,353	16,567	17,133	17,964	18,737	19,453
Oklahoma	7,907	8,448	9,404	9,825	10,607	12,355	11,444	11,938	12,662	13,005
Oregon	11,632	12,201	12,720	13,185	13,852	15,183	15,629	16,402	17,601	18,526
Pennsylvania	13,734	14,759	15,464	16,311	17,218	18,147	19,017	19,916	20,978	21,637
Rhode Island	12,767	13,550	14,315	15,034	15,809	17,289	18,509	19,815	20,649	21,582
South Carolina	12,668	12,158	13,145	14,194	15,091	16,137	16,788	17,641	18,073	18,655
South Dakota	8,406	8,965	9,493	10,013	10,530	11,357	12,022	12,603	13,327	13,858
Tennessee	8,934	9,443	9,956	10,534	11,343	12,057	12,748	13,759	14,612	15,416
Texas	9,180	10,218	10,973	11,810	12,337	13,222	13,764	14,585	15,364	15,940
Utah	7,878	8,344	8,745	9,052	9,685	10,301	10,109	10,768	11,297	12,076
Vermont	14,769	15,656	16,571	17,271	18,295	19,688	20,735	21,530	22,504	23,290
Virginia	10,903	11,621	12,279	13,143	13,926	14,850	15,616	18,110	17,963	18,843
Washington	11,335	11,884	12,384	13,070	13,512	14,153	15,189	16,253	17,690	18,925
West Virginia	8,764	9,508	9,992	10,620	11,425	12,128	12,426	12,799	13,476	14,126

State Indicators

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Wisconsin	9,061	9,867	10,560	11,230	11,750	12,400	13,190	13,819	14,718	15,446
Wyoming	8,485	8,514	8,946	9,627	10,068	10,556	10,952	11,467	12,022	12,479
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Average undergraduate charge at public 4-year institutions

State	2014	2015	2016
United States	18,100	18,632	19,189
Alabama	17,245	17,859	18,509
Alaska	15,693	16,814	16,701
Arizona	19,781	19,839	20,621
Arkansas	14,651	15,320	15,976
California	21,280	21,749	22,151
Colorado	18,977	19,710	20,594
Connecticut	21,638	22,435	23,351
Delaware	22,682	23,161	23,566
District of Columbia	7,255	NA	NA
Florida	14,369	14,677	14,457
Georgia	16,060	16,522	17,292
Hawaii	18,023	19,131	20,098
Idaho	13,817	13,644	14,211
Illinois	23,093	23,792	24,098
Indiana	18,249	18,393	18,712
Iowa	16,533	16,708	16,748
Kansas	14,633	15,584	16,783
Kentucky	17,280	17,530	18,702
Louisiana	15,238	16,045	17,287
Maine	19,121	18,914	18,767
Maryland	18,879	19,375	20,076
Massachusetts	21,814	22,214	23,389
Michigan	20,412	20,843	21,380

State Indicators

State	2014	2015	2016
Minnesota	18,387	18,726	19,266
Mississippi	14,411	15,710	16,434
Missouri	16,785	17,143	17,418
Montana	14,081	14,448	14,853
Nebraska	15,635	16,199	16,761
Nevada	16,034	15,138	15,570
New Hampshire	25,245	25,821	26,008
New Jersey	24,243	24,825	25,544
New Mexico	14,103	14,778	15,029
New York	19,754	20,549	21,489
North Carolina	15,195	15,771	16,364
North Dakota	13,711	14,217	14,847
Ohio	19,997	20,537	20,931
Oklahoma	13,493	14,147	14,677
Oregon	19,152	19,654	20,516
Pennsylvania	22,575	23,519	24,236
Rhode Island	21,761	22,030	22,722
South Carolina	19,502	20,354	21,150
South Dakota	14,429	14,983	16,108
Tennessee	16,263	17,147	17,735
Texas	16,209	16,872	17,395
Utah	12,800	12,970	13,344
Vermont	24,071	24,986	25,910
Virginia	19,845	20,941	21,889
Washington	19,282	18,863	18,665
West Virginia	14,834	15,644	16,426

State Indicators

State	2014	2015	2016
Wisconsin	15,720	15,938	16,194
Wyoming	12,949	13,457	13,942
Puerto Rico	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Per capita disposable personal income

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	17,215	17,663	18,675	19,206	19,907	20,761	21,624	22,536	23,771	24,646
Alabama	14,133	14,802	15,775	16,247	16,956	17,746	18,303	19,050	20,102	20,625
Alaska	20,200	20,648	21,465	22,232	22,749	23,347	23,749	24,803	25,596	26,316
Arizona	15,321	15,682	16,249	16,824	17,637	18,366	19,036	19,956	21,089	21,679
Arkansas	13,150	13,777	14,850	15,331	15,961	16,650	17,411	17,954	18,822	19,423
California	18,720	19,220	20,101	20,388	20,867	21,681	22,566	23,430	24,894	25,714
Colorado	17,228	17,858	18,829	19,685	20,528	21,713	22,679	23,593	25,434	26,705
Connecticut	23,031	23,133	24,663	25,348	25,946	27,085	27,816	29,178	31,102	32,630
Delaware	18,557	19,435	20,010	20,424	20,777	21,655	22,638	23,032	25,308	27,047
District of Columbia	22,108	23,532	25,152	26,436	27,118	27,712	29,002	30,464	32,165	32,894
Florida	17,907	18,269	18,970	19,729	20,277	21,297	21,951	22,538	23,809	24,589
Georgia	15,592	16,108	17,085	17,658	18,529	19,481	20,428	21,098	22,533	23,461
Hawaii	19,467	20,061	21,661	22,222	22,450	22,889	22,624	23,202	23,523	24,465
Idaho	14,217	14,550	15,462	16,430	17,017	17,769	18,456	18,803	20,019	20,829
Illinois	18,359	18,674	20,140	20,546	21,372	22,467	23,570	24,527	25,695	26,560
Indiana	15,555	15,879	17,110	17,797	18,657	19,275	20,116	20,891	22,360	23,151
Iowa	15,618	15,918	17,056	16,949	18,431	19,055	20,692	21,408	22,309	22,782
Kansas	16,285	16,818	18,002	18,612	19,243	19,780	20,878	21,851	22,993	23,599
Kentucky	13,736	14,467	15,427	15,810	16,418	16,969	17,822	18,666	19,559	20,216
Louisiana	13,730	14,392	15,360	16,019	16,925	17,587	18,099	18,837	19,669	20,102
Maine	15,584	15,872	16,670	17,171	17,822	18,618	19,479	20,307	21,481	22,463
Maryland	19,799	20,398	21,291	21,912	22,613	23,266	24,012	24,740	26,610	27,992
Massachusetts	19,827	20,302	21,377	22,051	22,932	23,923	25,019	26,141	27,285	28,737
Michigan	16,593	16,862	17,862	18,537	19,746	20,631	21,417	22,350	23,490	24,631

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	17,202	17,619	18,683	18,924	20,055	20,892	22,035	22,964	24,652	25,799
Mississippi	12,097	12,690	13,573	14,246	15,173	15,803	16,570	17,277	18,091	18,524
Missouri	15,795	16,511	17,511	18,109	18,925	19,621	20,481	21,461	22,265	23,014
Montana	13,870	14,699	15,320	16,219	16,262	16,895	17,445	18,037	19,189	19,503
Nebraska	16,510	17,036	17,985	18,389	19,352	20,127	21,681	21,921	23,229	24,145
Nevada	17,987	18,819	20,005	20,624	21,592	22,454	23,311	24,149	25,370	26,410
New Hampshire	18,473	19,267	20,087	20,464	21,659	22,644	23,408	24,524	26,582	27,807
New Jersey	21,600	21,927	23,439	23,858	24,405	25,816	26,892	28,179	29,496	30,450
New Mexico	13,616	14,316	15,029	15,713	16,299	17,153	17,616	18,160	18,869	19,095
New York	20,648	20,650	21,718	22,064	22,666	23,789	24,722	25,829	26,867	28,093
North Carolina	15,309	15,785	16,980	17,705	18,403	19,256	20,126	21,091	21,959	22,706
North Dakota	14,643	14,830	16,287	16,327	17,684	17,543	19,634	19,110	21,123	21,472
Ohio	16,366	16,646	17,673	18,248	19,129	19,873	20,590	21,672	22,748	23,469
Oklahoma	14,264	14,710	15,525	15,994	16,534	17,110	17,858	18,529	19,284	19,583
Oregon	15,871	16,242	17,010	17,780	18,615	19,668	20,707	21,445	22,409	22,942
Pennsylvania	17,243	17,942	18,830	19,441	19,967	20,759	21,667	22,602	23,666	24,609
Rhode Island	17,814	17,905	18,794	19,524	19,957	21,014	21,564	22,523	23,848	24,680
South Carolina	14,208	14,649	15,435	16,019	16,760	17,464	18,255	19,032	20,022	20,707
South Dakota	15,157	15,655	16,746	17,196	18,393	18,495	20,390	20,523	22,034	22,884
Tennessee	15,160	15,752	16,969	17,739	18,468	19,445	20,091	20,896	22,652	23,276
Texas	15,557	16,041	17,080	17,653	18,240	19,079	19,974	21,172	22,505	23,285
Utah	13,143	13,806	14,500	15,114	15,786	16,699	17,666	18,593	19,433	20,070
Vermont	15,944	16,223	17,301	17,788	18,527	19,379	20,119	20,900	22,345	23,631
Virginia	18,253	18,873	19,811	20,495	21,213	21,965	22,673	23,773	24,854	26,054
Washington	17,967	18,858	19,865	20,469	21,078	21,819	22,899	24,052	25,639	26,623
West Virginia	13,036	13,575	14,652	15,105	15,670	16,134	16,769	17,452	18,204	18,749

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	16,103	16,557	17,699	18,364	19,261	19,992	20,832	21,814	23,169	24,080
Wyoming	16,127	16,776	17,533	18,190	18,725	19,418	19,707	20,949	22,170	23,642
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Per capita disposable personal income

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	26,224	27,195	28,151	29,230	30,731	31,803	33,600	34,869	36,128	35,624
Alabama	21,526	22,198	23,001	24,137	25,945	26,984	28,137	29,213	30,049	30,069
Alaska	28,212	29,449	31,096	32,627	33,931	35,654	37,265	39,623	43,189	43,303
Arizona	22,891	23,489	24,395	25,515	27,120	28,864	30,919	31,866	32,169	31,172
Arkansas	20,220	21,215	21,898	23,257	24,521	25,373	26,527	27,849	28,896	28,756
California	27,344	28,432	29,682	31,178	33,304	34,550	36,841	37,747	38,368	37,847
Colorado	28,892	30,062	30,710	31,380	32,095	33,590	35,143	36,508	37,281	35,814
Connecticut	35,195	36,898	38,294	39,124	40,949	42,426	45,580	48,106	51,629	53,176
Delaware	29,837	32,611	33,690	34,252	34,856	34,739	36,388	36,705	36,832	37,328
District of Columbia	35,865	37,591	39,466	40,357	44,356	46,174	48,842	50,910	52,861	52,413
Florida	26,036	27,110	28,188	29,334	30,891	32,376	34,565	35,495	35,685	34,171
Georgia	24,794	25,717	26,579	27,503	28,676	29,673	30,728	31,370	31,359	31,306
Hawaii	25,821	26,709	28,122	29,372	31,111	32,560	34,385	35,942	37,620	37,923
Idaho	21,962	22,743	23,690	24,317	25,851	26,279	27,893	28,969	29,685	28,940
Illinois	28,429	29,435	30,403	31,223	32,412	33,336	35,290	36,893	37,929	36,971
Indiana	24,670	25,172	25,774	26,425	27,483	27,823	29,213	29,899	31,344	31,135
Iowa	24,344	25,074	26,144	26,809	29,114	29,544	31,023	32,802	34,805	34,152
Kansas	24,757	25,619	26,228	27,191	27,678	28,829	31,421	33,444	36,587	35,694
Kentucky	21,742	22,350	23,131	23,757	25,190	26,016	27,283	28,163	29,439	29,476
Louisiana	21,177	22,593	23,508	24,328	25,339	27,057	30,217	32,179	33,906	33,346
Maine	23,859	25,111	26,331	27,728	29,063	29,338	30,721	31,748	33,103	33,751
Maryland	30,025	31,401	32,751	34,176	36,434	37,594	39,651	40,634	42,787	43,323
Massachusetts	31,111	32,986	34,280	35,453	37,258	38,572	41,397	42,508	44,544	45,439
Michigan	26,271	26,790	27,299	28,086	29,008	29,425	30,083	30,853	31,756	31,098

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	27,419	28,421	29,413	31,048	32,853	33,090	34,356	35,789	37,330	36,404
Mississippi	19,447	20,571	21,151	22,019	23,330	24,585	25,383	26,806	27,925	27,728
Missouri	24,412	25,078	26,016	27,203	28,649	29,127	30,506	31,580	33,126	33,241
Montana	20,609	21,513	22,456	23,979	25,612	26,813	28,485	30,040	31,685	31,304
Nebraska	25,350	26,504	27,481	29,374	30,470	30,816	31,781	33,932	36,050	35,911
Nevada	27,787	28,573	29,016	30,121	31,996	34,283	35,444	35,635	34,869	33,251
New Hampshire	30,632	32,301	33,429	34,198	36,157	37,048	39,479	40,503	41,687	42,221
New Jersey	33,066	34,202	35,952	37,180	38,738	39,454	41,893	43,204	44,886	44,947
New Mexico	20,488	21,899	22,722	23,629	24,900	26,125	27,378	28,499	30,325	29,916
New York	29,898	30,606	31,814	32,726	34,180	35,276	37,278	39,261	40,051	40,656
North Carolina	23,696	24,088	24,597	25,536	27,549	28,746	30,272	31,822	33,745	32,701
North Dakota	23,491	23,989	24,988	27,359	27,470	28,889	29,766	32,799	37,093	36,826
Ohio	24,559	25,265	26,014	27,037	28,238	28,810	30,155	31,230	32,453	32,315
Oklahoma	21,083	22,298	23,088	24,240	26,098	28,024	30,515	31,374	34,758	32,064
Oregon	24,399	24,988	25,467	26,497	27,952	28,383	30,301	31,474	32,572	31,894
Pennsylvania	26,258	27,194	28,284	29,506	31,376	32,242	33,670	35,419	36,971	36,776
Rhode Island	26,126	27,381	28,976	30,644	32,001	32,849	34,657	36,083	37,198	37,202
South Carolina	21,988	22,572	23,381	24,135	25,310	26,092	27,406	28,567	29,642	29,119
South Dakota	24,248	25,202	25,594	28,214	29,970	31,243	32,268	35,472	37,919	36,965
Tennessee	24,455	24,883	25,733	26,811	28,202	28,923	30,072	31,054	32,393	32,448
Texas	24,785	26,043	26,494	27,280	28,046	29,752	31,542	32,915	35,287	33,873
Utah	21,064	21,771	22,482	23,173	24,332	25,633	27,574	29,052	30,284	28,773
Vermont	25,227	26,804	27,802	29,185	30,936	31,134	33,006	34,536	36,501	36,892
Virginia	27,841	29,068	30,055	31,804	33,727	35,389	37,288	38,853	39,884	39,593
Washington	28,371	29,145	30,142	31,334	33,558	34,216	36,321	38,626	40,408	38,620
West Virginia	19,908	21,026	22,220	22,703	23,484	24,163	25,767	26,456	28,080	28,747

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	25,610	26,809	27,942	28,643	29,778	30,367	31,927	33,149	34,290	34,352
Wyoming	25,004	26,717	28,182	30,214	31,798	34,187	37,916	39,014	42,752	39,962
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Per capita disposable personal income

State	2010	2011	2012	2013	2014	2015	2016
United States	36,275	37,803	39,473	39,192	40,894	42,417	43,185
Alabama	30,933	31,573	32,396	32,436	33,465	34,516	35,154
Alaska	44,863	47,131	48,465	46,858	49,774	51,323	50,747
Arizona	30,841	31,663	32,770	32,954	34,316	35,551	36,308
Arkansas	29,135	30,697	32,934	32,488	34,329	35,195	35,846
California	38,536	40,306	42,451	41,945	44,194	46,766	48,266
Colorado	35,616	37,867	39,838	41,098	43,742	45,268	45,418
Connecticut	54,339	54,965	55,895	53,939	55,978	57,329	58,465
Delaware	37,017	38,966	38,893	38,879	40,038	41,603	42,498
District of Columbia	54,179	56,871	57,155	56,573	59,544	62,623	64,572
Florida	35,526	36,842	37,195	36,606	38,506	40,381	40,854
Georgia	31,436	33,006	33,167	33,100	34,815	36,342	37,387
Hawaii	38,219	38,922	40,339	40,094	41,898	43,539	44,927
Idaho	29,173	30,346	31,589	32,312	33,607	34,920	35,490
Illinois	37,401	38,511	40,143	40,619	42,584	44,111	45,171
Indiana	31,914	33,570	35,125	35,163	36,378	37,411	38,619
Iowa	34,559	36,869	38,326	38,676	39,694	40,829	41,052
Kansas	35,516	38,237	40,424	41,140	41,760	42,099	42,379
Kentucky	30,049	31,127	32,202	31,951	33,179	34,318	34,701
Louisiana	34,278	34,920	36,448	36,244	37,980	38,930	38,498
Maine	34,232	35,169	35,993	35,588	36,978	38,266	39,445
Maryland	44,188	45,615	46,815	45,664	46,831	48,497	50,200
Massachusetts	46,510	47,584	49,507	48,504	50,016	52,834	54,190
Michigan	32,044	33,649	34,727	34,854	36,308	38,127	39,191

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	37,444	39,163	41,491	40,905	42,602	43,913	44,746
Mississippi	28,245	29,352	30,385	30,580	31,428	31,813	32,531
Missouri	33,458	34,350	35,958	35,616	36,686	37,576	38,081
Montana	32,387	34,170	35,876	35,296	36,174	37,701	38,181
Nebraska	36,926	40,729	41,599	41,110	43,329	44,359	44,823
Nevada	33,729	34,585	35,605	34,856	36,625	38,613	39,002
New Hampshire	43,308	45,030	47,346	46,651	47,075	48,724	50,077
New Jersey	45,454	46,814	48,569	47,972	49,802	51,784	52,999
New Mexico	30,581	31,840	32,526	31,573	33,428	34,505	35,028
New York	41,432	43,140	46,010	45,710	46,951	48,533	49,478
North Carolina	32,084	32,737	34,814	33,710	35,273	36,619	37,415
North Dakota	39,835	43,583	50,227	49,309	51,504	49,682	49,407
Ohio	32,821	34,702	36,035	36,168	37,555	38,876	39,665
Oklahoma	32,956	34,824	37,298	38,623	40,922	39,709	38,597
Oregon	31,989	33,099	34,683	34,553	36,515	38,461	39,434
Pennsylvania	37,818	39,234	41,020	40,840	42,422	43,780	44,696
Rhode Island	38,754	39,608	41,492	41,139	42,397	44,022	44,662
South Carolina	29,540	30,763	32,117	31,830	33,448	34,819	35,516
South Dakota	38,301	41,267	41,402	40,747	41,737	43,274	43,415
Tennessee	33,294	34,682	35,916	35,668	36,782	38,463	39,628
Texas	34,808	37,024	39,224	39,031	41,151	42,058	41,606
Utah	28,858	30,444	31,991	32,176	33,574	35,183	36,335
Vermont	37,448	39,279	40,735	40,990	42,246	43,738	44,808
Virginia	40,436	41,912	43,685	42,474	43,894	45,442	46,191
Washington	38,745	40,051	43,026	42,975	45,608	47,228	48,630
West Virginia	29,325	30,729	31,665	31,312	32,229	32,923	33,088

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	34,825	36,392	38,044	37,835	39,319	40,525	41,261
Wyoming	41,303	44,823	46,930	46,848	50,193	50,280	49,545
Puerto Rico	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

S-26 Appropriations of State Tax Funds for Higher Education as a Percentage of Gross Domestic Product

Description

This indicator represents the extent of state spending for higher education as a proportion of its gross domestic product (GDP).

Appropriations data are drawn from the annual State Higher Education Finance report produced by the association of State Higher Education Executive Officers (SHEEO). SHEEO collects data on all state and local revenues used to support higher education, including revenue from taxes, lottery receipts, royalty revenue, and state-funded endowments.

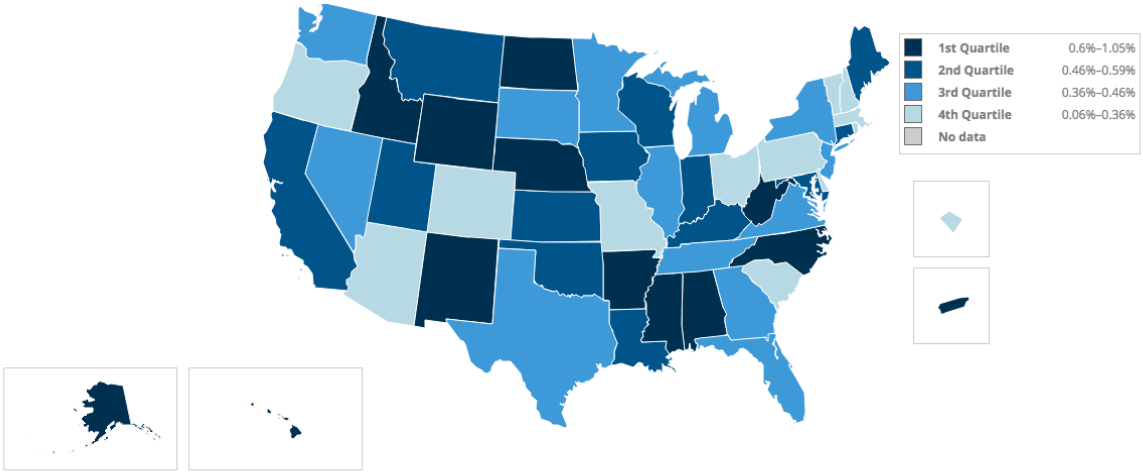
Because of decreases in state tax collections in FY 2009–11 during the Great Recession, state monies allocated to higher education decreased in many states. This decrease was offset to a degree by federal stimulus funds that were used to restore the level of state support for public higher education. Nationally, state financial support of higher education operating expenses relative to GDP has experienced a downward trend since the early 2000s. The state monies used to calculate this indicator do not include federal stimulus funds for education stabilization or federal, state, or local government funds for the modernization, renovation, or repair of higher education facilities.

Data sources: State Higher Education Executive Officers Association; U.S. Bureau of Economic Analysis, Gross Domestic Product data; Government of Puerto Rico, Office of the Governor, Gross Domestic Product data.

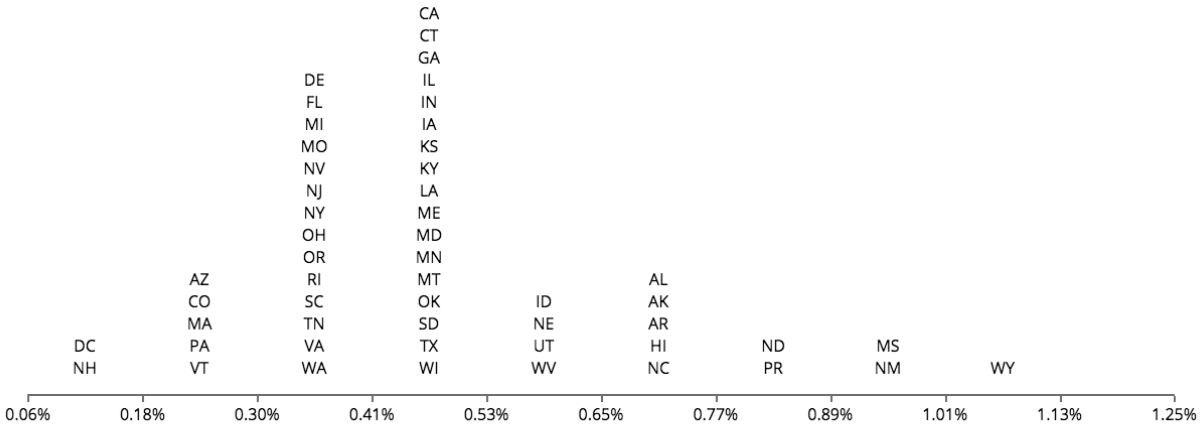
State Indicators

S-26 Appropriations of State Tax Funds for Higher Education as a Percentage of Gross Domestic Product

2016



Distribution of states across indicator values, 2016



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

State Indicators

Appropriations of State Tax Funds for Higher Education as a Percentage of Gross Domestic Product

(Percent)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	0.50	0.57	0.57	0.54	0.49	0.48	0.49	0.50	0.53	0.52
Alabama	0.92	0.89	0.87	0.86	0.79	0.78	0.86	0.99	1.14	0.94
Alaska	0.65	0.67	0.68	0.66	0.61	0.58	0.56	0.58	0.53	0.62
Arizona	0.52	0.52	0.49	0.45	0.42	0.41	0.40	0.42	0.49	0.51
Arkansas	0.88	0.87	0.86	0.78	0.75	0.71	0.77	0.80	0.86	0.88
California	0.57	0.64	0.66	0.61	0.52	0.51	0.52	0.55	0.57	0.50
Colorado	0.38	0.38	0.38	0.30	0.28	0.27	0.26	0.27	0.29	0.27
Connecticut	0.32	0.31	0.32	0.41	0.37	0.37	0.38	0.39	0.43	0.45
Delaware	NA	0.39	0.39	0.37	0.36	0.38	0.39	0.41	0.44	0.43
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	0.49	0.50	0.46	0.45	0.43	0.44	0.44	0.46	0.47	0.45
Georgia	0.53	0.62	0.61	0.56	0.52	0.50	0.52	0.53	0.59	0.56
Hawaii	0.82	0.79	0.77	0.75	0.74	0.70	0.74	0.77	0.83	0.94
Idaho	NA	0.83	0.89	0.79	0.75	0.72	0.69	0.68	0.72	0.76
Illinois	0.52	0.54	0.57	0.52	0.48	0.46	0.43	0.43	0.48	0.50
Indiana	0.60	0.62	0.62	0.59	0.57	0.58	0.56	0.54	0.56	0.61
Iowa	0.87	0.89	0.79	0.72	0.63	0.60	0.61	0.58	0.63	0.67
Kansas	0.75	0.76	0.78	0.70	0.68	0.68	0.67	0.64	0.64	0.64
Kentucky	0.81	0.85	0.88	0.79	0.76	0.70	0.75	0.76	0.71	0.69
Louisiana	0.71	0.70	0.78	0.74	0.71	0.62	0.60	0.68	0.76	0.79
Maine	0.56	0.58	0.58	0.55	0.52	0.52	0.51	0.52	0.54	0.52
Maryland	0.54	0.62	0.60	0.53	0.46	0.45	0.46	0.50	0.53	0.53
Massachusetts	NA	0.38	0.35	0.33	0.28	0.30	0.32	0.33	0.35	0.31

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	0.59	0.64	0.62	0.57	0.52	0.49	0.51	0.51	0.53	0.56
Minnesota	NA	0.67	0.69	0.61	0.56	0.52	0.55	0.54	0.59	0.59
Mississippi	1.25	1.17	1.06	1.00	0.98	0.93	0.89	0.96	1.07	1.04
Missouri	0.48	0.50	0.49	0.43	0.39	0.38	0.37	0.37	0.37	0.41
Montana	0.63	0.62	0.63	0.57	0.54	0.50	0.53	0.48	0.53	0.57
Nebraska	NA	0.82	0.83	0.78	0.70	0.69	0.71	0.70	0.73	0.73
Nevada	0.40	0.39	0.41	0.39	0.46	0.42	0.43	0.45	0.48	0.52
New Hampshire	NA	0.23	0.21	0.21	0.21	0.20	0.20	0.20	0.22	0.22
New Jersey	0.42	0.44	0.45	0.42	0.41	0.43	0.44	0.41	0.42	0.41
New Mexico	0.90	0.80	0.85	0.95	0.92	0.90	0.92	1.06	1.11	1.06
New York	0.45	0.37	0.38	0.39	0.35	0.37	0.38	0.41	0.44	0.43
North Carolina	0.82	0.83	0.81	0.78	0.74	0.78	0.79	0.87	0.92	0.96
North Dakota	1.03	0.98	0.99	0.92	0.86	0.82	0.81	0.75	0.78	0.78
Ohio	NA	0.54	0.50	0.48	0.46	0.45	0.45	0.45	0.46	0.52
Oklahoma	0.81	0.80	0.77	0.77	0.65	0.61	0.61	0.66	0.65	0.71
Oregon	NA	0.56	0.52	0.50	0.41	0.40	0.38	0.37	0.40	0.38
Pennsylvania	0.46	0.47	0.47	0.44	0.40	0.40	0.39	0.38	0.38	0.38
Rhode Island	NA	0.47	0.47	0.43	0.42	0.41	0.40	0.41	0.40	0.35
South Carolina	0.67	0.69	0.64	0.68	0.57	0.52	0.54	0.56	0.62	0.48
South Dakota	0.57	0.56	0.53	0.53	0.51	0.52	0.51	0.49	0.52	0.51
Tennessee	0.54	0.56	0.55	0.57	0.50	0.49	0.49	0.52	0.54	0.51
Texas	0.61	0.58	0.65	0.57	0.54	0.49	0.50	0.46	0.48	0.49
Utah	0.73	0.75	0.77	0.76	0.70	0.67	0.64	0.61	0.69	0.65
Vermont	0.34	0.35	0.35	0.35	0.34	0.33	0.34	0.34	0.35	0.34
Virginia	0.55	0.57	0.57	0.46	0.41	0.41	0.42	0.47	0.47	0.47
Washington	0.52	0.55	0.54	0.53	0.50	0.48	0.48	0.47	0.50	0.52

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	0.85	0.88	0.86	0.81	0.71	0.67	0.61	0.66	0.73	0.75
Wisconsin	0.59	0.62	0.61	0.59	0.52	0.50	0.47	0.48	0.51	0.54
Wyoming	0.78	0.78	0.83	0.89	0.84	0.78	0.76	0.75	0.66	0.85
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national value for higher education appropriations for the United States includes Puerto Rico; The national GDP total for the United States includes Puerto Rico.

Source(s):
State Higher Education Executive Officers Association, data as of April 2018; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

Appropriations of State Tax Funds for Higher Education as a Percentage of Gross Domestic Product

(Percent)

State	2010	2011	2012	2013	2014	2015	2016
United States	0.47	0.47	0.43	0.42	0.43	0.43	0.43
Alabama	0.82	0.79	0.80	0.74	0.74	0.73	0.72
Alaska	0.61	0.59	0.58	0.62	0.65	0.71	0.71
Arizona	0.42	0.40	0.29	0.29	0.29	0.29	0.24
Arkansas	0.81	0.80	0.79	0.76	0.74	0.74	0.73
California	0.50	0.51	0.41	0.41	0.44	0.48	0.49
Colorado	0.17	0.25	0.23	0.22	0.22	0.24	0.26
Connecticut	0.45	0.46	0.40	0.37	0.42	0.44	0.46
Delaware	0.39	0.35	0.35	0.35	0.35	0.33	0.33
District of Columbia	NA	0.06	0.06	0.07	0.06	0.06	0.06
Florida	0.39	0.41	0.37	0.32	0.37	0.38	0.38
Georgia	0.46	0.49	0.45	0.45	0.45	0.45	0.44
Hawaii	0.84	0.70	0.72	0.69	0.67	0.70	0.71
Idaho	0.62	0.59	0.56	0.58	0.58	0.59	0.60
Illinois	0.55	0.53	0.54	0.59	0.57	0.57	0.42
Indiana	0.55	0.54	0.52	0.50	0.51	0.49	0.51
Iowa	0.53	0.51	0.47	0.48	0.48	0.48	0.47
Kansas	0.58	0.54	0.53	0.54	0.51	0.52	0.49
Kentucky	0.60	0.59	0.58	0.54	0.53	0.50	0.49
Louisiana	0.55	0.53	0.50	0.49	0.45	0.46	0.49
Maine	0.50	0.51	0.51	0.49	0.48	0.47	0.47
Maryland	0.51	0.49	0.48	0.47	0.49	0.49	0.49
Massachusetts	0.24	0.27	0.28	0.28	0.29	0.30	0.29

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	0.48	0.47	0.37	0.37	0.38	0.38	0.37
Minnesota	0.53	0.49	0.44	0.42	0.44	0.44	0.46
Mississippi	1.05	0.96	0.94	0.89	0.93	0.95	0.96
Missouri	0.36	0.37	0.32	0.31	0.31	0.32	0.31
Montana	0.44	0.41	0.47	0.46	0.49	0.51	0.53
Nebraska	0.68	0.64	0.62	0.60	0.60	0.61	0.63
Nevada	0.33	0.44	0.38	0.37	0.37	0.35	0.37
New Hampshire	0.22	0.21	0.12	0.13	0.15	0.17	0.16
New Jersey	0.41	0.42	0.39	0.36	0.37	0.35	0.36
New Mexico	0.95	0.85	0.81	0.83	0.83	0.89	0.89
New York	0.41	0.40	0.37	0.38	0.38	0.38	0.38
North Carolina	0.90	0.89	0.81	0.81	0.76	0.73	0.74
North Dakota	0.86	0.74	0.66	0.63	0.69	0.73	0.78
Ohio	0.40	0.38	0.37	0.36	0.36	0.35	0.36
Oklahoma	0.70	0.62	0.55	0.52	0.50	0.52	0.46
Oregon	0.33	0.31	0.29	0.29	0.31	0.31	0.34
Pennsylvania	0.31	0.30	0.26	0.25	0.24	0.23	0.23
Rhode Island	0.32	0.32	0.32	0.31	0.31	0.31	0.31
South Carolina	0.43	0.36	0.37	0.38	0.34	0.34	0.34
South Dakota	0.48	0.42	0.38	0.42	0.44	0.44	0.44
Tennessee	0.44	0.40	0.38	0.39	0.40	0.38	0.39
Texas	0.50	0.48	0.42	0.38	0.40	0.39	0.42
Utah	0.57	0.55	0.56	0.55	0.56	0.59	0.59
Vermont	0.35	0.33	0.31	0.30	0.30	0.29	0.29
Virginia	0.41	0.40	0.37	0.38	0.39	0.38	0.38
Washington	0.44	0.43	0.35	0.35	0.37	0.35	0.38

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	0.67	0.65	0.71	0.71	0.64	0.64	0.61
Wisconsin	0.49	0.51	0.42	0.42	0.38	0.53	0.48
Wyoming	0.75	0.79	0.80	0.89	0.79	0.90	1.05
Puerto Rico	NA	0.69	0.69	0.74	0.81	0.81	0.83

NA not available

Note(s):
The national value for higher education appropriations for the United States includes Puerto Rico; The national GDP total for the United States includes Puerto Rico.

Source(s):
State Higher Education Executive Officers Association, data as of April 2018; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); 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. "Appropriations of State Tax Funds for Higher Education 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/state-tax-appropriations-for-higher-ed-operations-to-state-gdp

Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

Appropriations of state tax funds for higher education

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	50,937	60,325	62,490	61,707	60,296	62,827	67,265	72,157	77,518	74,565
Alabama	1,100	1,088	1,116	1,162	1,168	1,215	1,408	1,685	1,962	1,581
Alaska	175	191	201	211	216	232	249	283	294	314
Arizona	866	893	884	859	863	922	995	1,106	1,268	1,230
Arkansas	605	618	635	617	639	639	733	778	862	865
California	7,768	8,871	9,393	9,273	8,534	8,929	9,859	10,778	11,366	9,507
Colorado	683	714	730	602	569	597	608	662	737	662
Connecticut	540	549	577	754	748	788	831	924	1,034	1,045
Delaware	NA	185	185	182	191	203	216	233	242	244
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	2,462	2,631	2,565	2,692	2,724	3,079	3,249	3,519	3,523	3,258
Georgia	1,638	1,965	1,987	1,909	1,897	1,948	2,100	2,206	2,438	2,269
Hawaii	342	339	349	370	399	410	461	504	554	613
Idaho	NA	311	346	323	328	341	353	368	403	408
Illinois	2,574	2,720	2,904	2,764	2,701	2,686	2,641	2,788	3,077	3,204
Indiana	1,227	1,283	1,321	1,327	1,360	1,417	1,429	1,457	1,525	1,595
Iowa	824	851	787	770	738	743	780	804	874	914
Kansas	650	683	716	671	673	716	764	779	823	796
Kentucky	926	1,002	1,085	1,008	1,035	1,001	1,138	1,180	1,134	1,076
Louisiana	950	970	1,101	1,160	1,209	1,244	1,243	1,420	1,668	1,670
Maine	206	227	237	234	232	241	244	255	270	262
Maryland	1,043	1,283	1,302	1,207	1,140	1,176	1,264	1,436	1,548	1,606
Massachusetts	NA	1,132	1,069	1,032	915	1,038	1,147	1,257	1,347	1,189
Michigan	2,085	2,232	2,274	2,151	1,984	1,948	2,012	2,035	2,034	2,046

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	NA	1,315	1,398	1,323	1,286	1,273	1,366	1,401	1,561	1,526
Mississippi	824	791	732	735	766	757	768	876	1,043	975
Missouri	911	959	975	875	839	861	855	895	935	1,027
Montana	138	142	150	146	151	153	173	174	197	204
Nebraska	NA	490	513	521	497	504	548	571	616	633
Nevada	306	317	349	358	481	503	558	596	620	623
New Hampshire	NA	108	103	107	112	115	117	124	133	139
New Jersey	1,542	1,664	1,752	1,719	1,741	1,890	2,029	1,974	2,045	1,985
New Mexico	500	452	495	606	645	672	718	861	959	880
New York	3,732	3,246	3,360	3,495	3,313	3,797	4,148	4,568	4,853	4,967
North Carolina	2,270	2,398	2,443	2,450	2,475	2,782	3,058	3,460	3,823	3,912
North Dakota	185	186	201	204	200	202	215	216	254	254
Ohio	NA	2,171	2,075	2,064	2,071	2,102	2,142	2,208	2,288	2,474
Oklahoma	741	780	764	811	740	763	836	955	1,015	1,013
Oregon	NA	655	636	633	586	583	618	638	720	681
Pennsylvania	1,877	2,005	2,047	1,998	1,947	2,016	2,047	2,154	2,193	2,166
Rhode Island	NA	169	181	176	184	188	193	196	191	165
South Carolina	780	829	796	889	779	743	810	894	999	763
South Dakota	130	135	142	148	153	162	165	174	193	186
Tennessee	985	1,046	1,073	1,154	1,089	1,123	1,167	1,255	1,346	1,256
Texas	4,487	4,471	5,108	4,757	4,920	4,829	5,412	5,403	6,012	5,730
Utah	514	548	586	602	603	635	678	705	799	736
Vermont	63	67	71	75	77	78	82	84	89	86
Virginia	1,480	1,630	1,682	1,427	1,346	1,481	1,595	1,855	1,886	1,899
Washington	1,238	1,315	1,349	1,375	1,361	1,412	1,536	1,631	1,768	1,809
West Virginia	363	387	392	380	353	356	347	390	457	480

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	1,074	1,170	1,195	1,212	1,125	1,122	1,111	1,170	1,259	1,326
Wyoming	136	147	160	190	197	214	248	272	281	315
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Appropriations of state tax funds for higher education

State	2010	2011	2012	2013	2014	2015	2016	2017	2018
United States	70,990	73,296	69,130	70,193	74,416	78,294	80,096	82,828	83,853
Alabama	1,424	1,425	1,495	1,407	1,445	1,463	1,485	1,557	1,618
Alaska	330	345	356	368	381	380	361	336	327
Arizona	1,037	1,026	757	773	805	840	719	753	760
Arkansas	839	857	868	868	878	879	881	883	885
California	9,850	10,425	8,815	9,014	10,381	11,987	12,813	13,455	13,906
Colorado	429	652	624	618	657	759	846	848	868
Connecticut	1,064	1,076	950	887	1,026	1,121	1,221	1,155	1,144
Delaware	227	212	213	216	228	227	230	235	237
District of Columbia	NA	66	67	75	67	73	72	77	78
Florida	2,864	3,022	2,817	2,547	3,098	3,324	3,510	3,666	4,077
Georgia	1,915	2,089	1,986	2,032	2,166	2,241	2,329	2,465	2,627
Hawaii	575	491	520	517	518	566	599	663	717
Idaho	342	334	324	350	364	389	405	444	463
Illinois	3,590	3,604	3,832	4,293	4,296	4,374	3,340	4,604	4,349
Indiana	1,562	1,565	1,546	1,552	1,658	1,643	1,733	1,738	1,765
Iowa	758	759	740	787	823	848	849	829	816
Kansas	743	741	745	778	756	791	754	757	752
Kentucky	1,004	1,022	1,028	980	978	959	962	921	918
Louisiana	1,268	1,257	1,207	1,144	1,098	1,092	1,153	1,059	1,132
Maine	258	265	267	261	266	267	280	296	296
Maryland	1,593	1,589	1,599	1,610	1,713	1,784	1,840	1,972	1,984
Massachusetts	978	1,139	1,201	1,255	1,342	1,463	1,494	1,544	1,564
Michigan	1,837	1,870	1,550	1,609	1,670	1,784	1,826	1,877	1,917

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017	2018
Minnesota	1,429	1,385	1,285	1,285	1,395	1,446	1,533	1,543	1,653
Mississippi	1,003	929	950	921	970	1,005	1,031	1,012	898
Missouri	920	940	863	854	862	930	934	999	911
Montana	168	169	199	199	223	236	244	250	240
Nebraska	623	635	631	640	667	696	723	746	732
Nevada	397	550	473	472	486	487	544	571	622
New Hampshire	139	138	83	86	109	127	124	125	128
New Jersey	2,010	2,050	1,998	1,888	1,990	1,990	2,068	2,084	2,066
New Mexico	818	762	731	758	790	830	835	779	771
New York	4,989	4,956	4,840	5,112	5,307	5,529	5,603	5,752	5,860
North Carolina	3,750	3,821	3,557	3,704	3,626	3,671	3,815	3,952	3,994
North Dakota	312	312	344	344	410	410	406	420	358
Ohio	1,997	1,995	2,014	2,051	2,105	2,134	2,226	2,304	2,301
Oklahoma	1,049	1,014	965	968	976	975	849	785	746
Oregon	638	623	562	577	627	667	772	811	855
Pennsylvania	1,872	1,848	1,640	1,633	1,645	1,659	1,648	1,693	1,652
Rhode Island	160	157	161	164	167	171	179	188	198
South Carolina	704	618	644	688	654	691	709	737	708
South Dakota	182	179	163	185	202	209	212	232	227
Tennessee	1,119	1,060	1,070	1,125	1,206	1,212	1,279	1,367	1,484
Texas	6,169	6,447	5,979	5,847	6,410	6,349	6,834	7,054	6,922
Utah	674	684	716	735	785	876	921	966	1,018
Vermont	92	90	87	86	88	89	89	89	91
Virginia	1,727	1,702	1,624	1,712	1,780	1,810	1,862	2,052	2,014
Washington	1,572	1,593	1,362	1,407	1,571	1,581	1,771	1,878	1,907
West Virginia	448	460	503	509	475	469	448	446	433

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017	2018
Wisconsin	1,248	1,330	1,154	1,183	1,114	1,601	1,471	1,499	1,509
Wyoming	295	327	320	363	331	355	397	361	355
Puerto Rico	NA	691	705	757	834	834	870	NA	NA

NA not available

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
United States	14,958,151	15,506,355	16,142,806	16,679,187	17,379,962	18,028,287	18,561,329
Alabama	174,710	180,665	185,878	190,319	194,404	199,980	204,861
Alaska	54,134	58,759	60,890	59,808	58,267	53,384	50,713
Arizona	245,668	254,192	264,693	270,469	280,790	291,448	302,952
Arkansas	102,951	107,287	109,226	114,456	117,922	118,677	120,689
California	1,965,886	2,036,297	2,131,199	2,223,892	2,349,338	2,491,619	2,602,672
Colorado	253,374	262,719	272,799	286,835	305,309	313,329	323,692
Connecticut	234,528	234,233	239,462	240,975	244,784	256,306	263,379
Delaware	57,471	59,937	60,628	61,109	65,888	68,864	70,387
District of Columbia	103,831	107,738	109,685	111,890	116,309	121,119	126,815
Florida	735,098	741,455	764,136	794,644	832,340	883,861	926,817
Georgia	412,485	424,126	439,058	454,238	477,522	501,522	525,360
Hawaii	68,225	70,017	72,532	74,630	76,835	80,599	83,917
Idaho	55,258	56,744	58,105	60,854	63,272	65,460	67,275
Illinois	653,476	679,776	711,370	721,876	747,641	772,182	791,608
Indiana	282,259	291,570	299,996	311,150	324,425	333,363	341,909
Iowa	141,697	148,843	158,246	162,305	169,843	175,809	178,766
Kansas	128,542	136,884	140,964	143,471	147,585	151,845	153,258
Kentucky	165,974	171,835	177,046	181,135	185,748	191,897	197,043
Louisiana	232,596	236,248	241,378	234,608	242,102	238,075	235,109
Maine	51,456	51,490	52,580	53,348	55,325	57,332	59,275
Maryland	313,952	324,830	332,500	339,443	350,430	366,242	378,280
Massachusetts	402,652	417,283	434,098	442,090	459,118	488,100	507,913
Michigan	385,021	399,437	416,701	429,644	445,209	470,611	487,239

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	269,937	282,397	292,920	304,063	316,973	326,833	335,147
Mississippi	95,810	96,968	101,351	103,523	104,284	105,871	107,680
Missouri	255,865	257,225	266,245	275,911	282,034	292,718	300,891
Montana	38,375	41,187	42,349	43,229	45,058	45,845	45,994
Nebraska	92,231	99,935	101,973	106,765	112,087	113,458	115,345
Nevada	121,713	124,445	125,440	128,205	132,653	141,070	147,475
New Hampshire	64,159	65,214	66,948	68,558	71,100	74,269	77,855
New Jersey	489,130	493,343	514,662	531,072	542,549	564,360	581,122
New Mexico	86,079	89,261	90,146	90,834	94,707	93,230	93,297
New York	1,204,688	1,229,743	1,301,041	1,330,236	1,391,086	1,445,611	1,487,998
North Carolina	416,008	427,974	438,350	454,945	474,482	499,741	517,904
North Dakota	36,202	42,164	52,493	54,965	59,627	55,927	52,089
Ohio	498,989	528,567	550,299	564,683	591,485	607,326	625,715
Oklahoma	149,913	163,868	174,305	186,007	196,767	188,011	182,937
Oregon	191,120	199,929	196,973	196,594	203,326	216,522	226,821
Pennsylvania	596,662	615,411	637,896	659,792	684,781	708,402	724,936
Rhode Island	49,351	49,716	50,997	52,187	53,725	55,650	57,433
South Carolina	164,106	170,193	174,567	181,556	191,168	201,831	209,716
South Dakota	38,176	42,253	43,056	44,560	45,470	47,073	48,139
Tennessee	252,478	263,175	278,298	288,012	298,865	316,659	328,770
Texas	1,243,398	1,344,733	1,437,893	1,536,472	1,614,127	1,611,189	1,616,801
Utah	117,714	124,031	128,018	133,274	140,500	149,099	156,352
Vermont	26,633	27,676	28,195	28,690	29,360	30,300	31,092
Virginia	420,862	429,174	441,144	449,235	459,068	481,721	494,349
Washington	359,694	370,149	388,922	405,561	425,105	446,417	469,739
West Virginia	67,255	70,945	70,969	72,082	74,002	73,384	73,374

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	252,875	262,463	272,420	281,569	290,889	301,587	309,536
Wyoming	39,103	41,499	40,201	40,968	41,832	39,415	37,858
Puerto Rico	98,381	100,352	101,565	102,450	102,446	103,144	105,035

Science and Engineering Indicators 2018

State Indicators

S-27 State Expenditures on Student Aid per Undergraduate Student

Description

The cost of an undergraduate education can be reduced with financial assistance from the state government, the federal government, or an academic institution. This indicator is calculated by dividing the amount of financial support from state grants to both public and private institutions in the state by the total undergraduate fall enrollment at public and private degree-granting postsecondary institutions in the state. A high value is one indicator of state efforts to provide access to higher education at a time of escalating undergraduate costs. The actual distribution of state grants to individual students may be affected by the percentage of undergraduates who are state residents.

State expenditures on student aid are collected by the National Association of State Student Grant and Aid Programs annual survey. It is reported by the location of the school as is the number of undergraduate students, as reported by the National Center for Education Statistics.

This indicator should be viewed relative to the tuition charged to undergraduates in a state, as some states have chosen to subsidize tuition for all students at public institutions rather than provide grants. Other differences between states, such as the amount of scholarship aid available from other sources, the percentage of students attending out-of-state institutions, and students' eligibility for state funding, mean that readers should exercise caution when making comparisons between states (which may vary dramatically) and examining changes over time. Rapid increases in undergraduate student enrollment in a state may cause this indicator to fall, even during periods when absolute state student aid expenditures have increased.

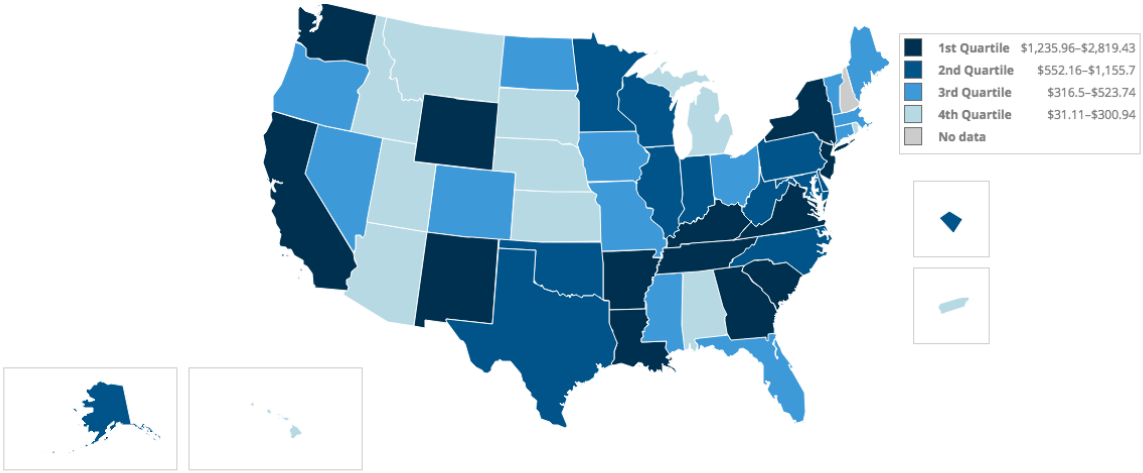
Total state grant expenditures for financial aid include need-based and non–need-based grants. State assistance through subsidized or unsubsidized loans and awards to students at the graduate and first professional degree levels is not included. The year is the end date of the academic year. For example, data for 2015 represent costs for the 2014–15 academic year.

Data sources: National Association of State Student Grant and Aid Programs, Annual Survey Report; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics.

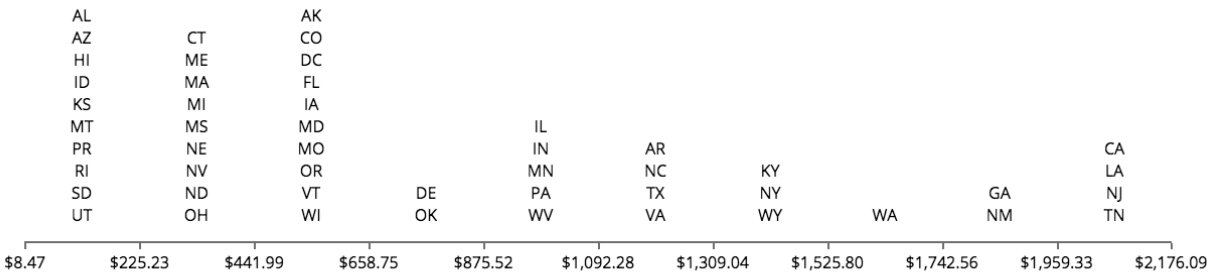
State Indicators

S-27 State Expenditures on Student Aid per Undergraduate Student

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

State Expenditures on Student Aid per Undergraduate Student

(Dollars)

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	407.43	415.52	434.70	465.04	499.22	544.57	603.76	637.45	634.06	680.40
Alabama	75.16	70.10	68.30	64.99	62.32	57.51	58.15	55.15	49.13	36.57
Alaska	16.67	16.43	8.47	9.65	NA	NA	NA	NA	NA	NA
Arizona	39.38	24.96	29.00	32.47	25.63	24.47	24.04	20.20	17.63	14.86
Arkansas	151.31	185.93	217.41	222.40	287.87	438.57	533.62	508.16	365.00	375.97
California	448.21	440.26	465.70	502.08	560.97	616.66	726.16	777.94	813.28	962.69
Colorado	257.95	292.22	307.96	320.79	408.84	405.63	390.01	426.06	443.16	390.26
Connecticut	262.38	261.26	260.06	331.58	408.39	439.27	512.54	507.73	179.12	405.08
Delaware	46.58	51.96	44.48	57.18	60.78	50.19	50.92	55.93	71.56	453.74
District of Columbia	23.57	22.90	23.92	23.40	18.19	18.25	14.94	24.23	NA	460.05
Florida	419.05	416.77	436.15	518.83	615.10	782.78	975.78	918.05	675.62	713.11
Georgia	665.69	937.57	1,024.22	1,144.50	1,177.68	1,276.43	1,568.67	1,738.44	1,799.50	1,844.27
Hawaii	26.10	17.98	13.84	21.58	18.27	18.64	19.36	18.07	13.26	13.18
Idaho	28.84	28.20	26.53	25.69	26.88	28.65	22.33	90.94	91.94	89.16
Illinois	1,040.66	1,092.40	1,145.19	1,156.63	1,240.08	1,302.35	1,358.45	1,420.56	1,269.46	1,166.18
Indiana	331.29	338.98	380.54	409.76	470.17	488.60	501.63	556.55	595.41	699.76
Iowa	386.58	420.09	449.63	470.67	506.48	532.93	533.84	501.69	458.47	445.12
Kansas	146.63	120.38	127.83	127.72	142.86	146.50	148.84	148.52	NA	153.30
Kentucky	236.50	245.22	269.20	248.45	353.42	440.48	592.65	741.13	916.75	1,179.56
Louisiana	90.95	106.10	115.72	134.37	377.37	467.60	623.44	701.36	681.21	709.93
Maine	141.51	173.02	164.51	189.73	184.77	246.12	277.63	278.53	287.65	284.80
Maryland	292.29	332.60	387.85	391.39	398.16	388.06	411.79	412.13	339.21	386.62
Massachusetts	261.90	230.25	242.58	318.08	394.38	439.09	495.94	480.61	351.00	334.51

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Michigan	307.58	316.00	318.24	328.43	328.01	317.20	345.25	351.14	309.84	515.36
Minnesota	710.73	664.43	697.87	671.73	825.30	796.94	790.55	829.33	826.31	726.02
Mississippi	23.02	21.53	10.00	18.61	15.49	330.31	322.12	339.63	318.60	326.99
Missouri	139.54	147.21	155.64	165.15	198.24	218.50	240.50	227.19	207.34	203.08
Montana	13.02	12.09	9.61	40.61	42.76	91.16	95.48	84.04	83.31	75.62
Nebraska	43.94	50.76	53.15	68.62	79.61	96.02	100.61	123.43	40.91	140.04
Nevada	13.95	123.14	143.62	218.97	192.72	190.02	392.40	540.62	NA	450.44
New Hampshire	36.85	19.00	15.70	31.19	40.68	37.31	35.20	71.22	72.53	83.32
New Jersey	1,158.46	959.63	1,085.64	1,076.76	1,144.08	1,206.72	1,224.94	1,287.88	1,302.54	1,342.06
New Mexico	346.98	428.98	472.94	895.70	656.98	786.09	894.91	874.74	321.92	592.30
New York	1,148.57	1,123.09	1,132.87	1,150.29	1,106.70	1,073.62	1,133.62	1,168.53	1,253.66	1,437.21
North Carolina	233.76	240.16	248.19	448.07	501.63	570.35	615.78	660.32	582.62	726.58
North Dakota	81.08	77.05	90.72	87.05	83.40	85.41	38.46	55.10	53.73	51.63
Ohio	412.63	404.84	425.81	454.38	475.64	541.80	562.16	607.15	621.57	615.58
Oklahoma	180.67	227.42	244.06	280.65	283.35	269.97	282.42	293.07	292.06	252.79
Oregon	206.27	200.64	235.08	222.90	219.25	235.19	245.21	236.31	200.16	244.16
Pennsylvania	613.69	651.84	668.71	689.41	728.25	742.50	842.10	853.31	866.57	882.09
Rhode Island	138.56	122.09	120.98	124.61	117.25	1,247.31	122.18	118.66	120.85	232.74
South Carolina	199.69	213.62	245.39	243.80	249.20	360.56	1,025.54	1,032.99	1,369.50	2,176.09
South Dakota	20.84	18.42	11.69	NA	NA	26.52	NA	NA	NA	NA
Tennessee	143.62	144.70	143.29	154.62	153.66	153.02	211.33	259.81	312.83	275.18
Texas	71.85	101.38	106.14	147.51	149.00	216.79	241.84	428.69	666.79	316.05
Utah	25.93	11.51	20.28	18.33	17.41	22.76	19.57	30.96	28.16	29.43
Vermont	461.48	456.64	423.99	457.32	479.12	1,880.49	546.09	595.32	600.13	631.27
Virginia	425.49	457.94	465.72	476.60	531.88	391.63	639.42	594.25	570.21	546.35
Washington	558.07	586.91	599.08	700.42	734.92	726.09	893.24	891.19	962.53	1,096.21

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
West Virginia	197.96	123.56	156.45	179.16	190.82	277.37	261.01	293.67	410.04	774.93
Wisconsin	329.31	308.76	320.39	325.56	340.51	308.64	416.40	393.17	400.21	428.32
Wyoming	25.55	24.83	18.68	23.26	18.37	18.13	NA	17.62	17.16	17.00
Puerto Rico	159.19	171.40	172.45	161.53	128.46	227.15	256.58	217.35	218.57	187.54

NA not available

Note(s):
The national value for the United States for student aid includes Puerto Rico; The national enrollment total for the United States includes data from U.S. Service Academies not allocated to states, as well as U.S. territories.

Source(s):
National Association of State Student Grant and Aid Programs, Annual Survey Report (various years), data as of October 2017; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics (various years), data as of May 2017.

Recommended Citation: National Science Board. 2018. "State Expenditures on Student Aid per Undergraduate Student." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/state-student-aid-expenditures-per-full-time-undergraduate-student

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

State Expenditures on Student Aid per Undergraduate Student

(Dollars)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	745.09	771.99	804.84	824.55	823.07	824.90	846.91	859.97	878.18	910.32
Alabama	20.83	53.19	58.72	108.32	129.17	147.99	108.58	106.23	50.77	50.58
Alaska	NA	19.03	21.84	24.69	68.68	28.59	49.24	200.64	323.95	389.38
Arizona	12.18	10.65	41.36	32.15	43.64	43.13	45.95	40.34	59.27	60.51
Arkansas	222.68	344.07	357.35	384.39	399.78	446.71	1,510.07	1,540.53	1,554.99	1,382.63
California	1,034.85	1,060.84	1,036.03	1,083.11	1,141.48	1,337.57	1,569.56	1,796.92	1,800.58	1,850.14
Colorado	368.36	359.69	385.32	413.73	436.37	361.43	360.91	352.39	354.15	377.64
Connecticut	397.45	419.54	444.98	666.39	641.52	608.12	594.87	480.82	197.91	362.09
Delaware	391.41	362.25	480.31	597.09	567.55	640.71	614.25	615.63	604.11	622.00
District of Columbia	498.62	518.33	494.19	437.36	409.44	683.11	716.34	737.67	726.19	663.49
Florida	783.36	814.10	904.13	907.98	810.10	694.79	653.38	534.44	510.99	503.03
Georgia	2,061.21	1,950.51	1,910.14	1,865.26	1,925.10	2,138.24	2,383.10	1,751.58	1,698.74	1,747.41
Hawaii	12.17	12.07	12.21	11.84	53.48	93.57	87.70	98.72	86.87	105.02
Idaho	96.02	94.32	98.54	105.42	133.30	92.90	77.82	85.24	69.78	58.35
Illinois	1,100.96	1,151.42	1,324.44	1,210.41	1,175.63	1,161.54	1,159.50	1,234.83	1,106.98	1,117.88
Indiana	714.02	748.07	791.64	861.99	880.43	798.93	871.24	874.87	906.82	966.46
Iowa	427.67	420.80	392.56	357.77	307.46	247.84	261.30	268.51	315.11	431.25
Kansas	173.30	163.16	176.62	199.83	191.14	183.61	174.59	178.01	172.10	158.65
Kentucky	1,269.84	1,354.43	1,416.23	1,435.34	1,376.52	1,354.86	1,322.68	1,343.01	1,365.29	1,448.69
Louisiana	858.49	823.73	873.08	979.91	1,107.52	1,127.62	1,237.26	1,383.00	1,559.55	1,804.81
Maine	285.92	302.39	354.88	412.22	373.91	311.08	346.36	350.32	380.93	276.69
Maryland	437.52	564.32	692.18	708.36	674.98	629.25	581.51	580.23	593.02	682.82
Massachusetts	326.27	324.53	332.99	336.04	363.20	322.74	327.53	320.88	338.79	332.26

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Michigan	619.10	617.07	640.34	584.68	503.60	142.64	250.34	263.07	277.52	288.15
Minnesota	780.32	767.86	921.77	853.29	787.38	901.90	640.50	756.14	870.00	939.55
Mississippi	328.41	338.72	338.99	341.49	336.51	301.44	295.37	302.35	333.07	371.41
Missouri	272.22	198.29	281.26	502.96	558.47	495.89	356.88	394.15	421.85	457.23
Montana	89.33	111.65	137.96	130.78	165.29	151.66	150.27	166.58	142.26	132.73
Nebraska	132.85	155.01	159.22	190.84	187.07	204.62	223.14	222.29	227.71	246.48
Nevada	506.55	488.68	432.52	423.68	414.15	423.55	514.32	559.06	588.30	365.15
New Hampshire	83.07	83.66	83.49	81.43	75.46	79.49	60.81	NA	NA	NA
New Jersey	1,472.55	1,494.89	1,565.78	1,597.38	1,678.53	1,885.46	1,658.24	1,741.68	1,853.05	1,907.70
New Mexico	1,142.55	1,222.25	1,363.19	1,287.17	1,359.63	1,345.23	1,509.58	1,569.94	1,269.85	1,686.26
New York	1,466.72	1,432.83	1,367.24	1,214.53	1,215.53	1,339.98	1,257.52	1,342.78	1,358.48	1,359.16
North Carolina	696.51	832.78	934.54	1,177.08	1,494.21	1,474.62	1,455.74	1,261.70	1,315.03	1,273.36
North Dakota	54.46	54.80	65.19	97.43	87.68	222.83	294.47	325.80	397.56	412.79
Ohio	712.72	656.36	743.05	721.19	743.09	264.21	265.73	264.59	298.90	298.41
Oklahoma	412.08	510.62	558.04	643.66	694.16	690.38	716.07	719.25	736.26	761.08
Oregon	256.39	323.29	359.96	362.54	673.11	719.65	171.79	387.93	460.04	494.27
Pennsylvania	880.56	952.92	1,056.17	1,050.97	831.54	895.27	805.19	1,001.36	995.03	1,026.89
Rhode Island	256.28	237.74	237.76	277.26	190.15	195.77	234.94	227.38	223.30	213.26
South Carolina	2,324.48	2,426.23	2,516.30	2,577.28	2,637.42	2,564.78	2,553.45	2,559.44	2,785.05	2,772.02
South Dakota	NA	78.51	56.82	62.88	87.90	89.95	103.89	96.30	104.52	115.47
Tennessee	817.83	1,067.94	1,377.27	1,631.56	1,726.11	1,769.72	1,836.08	1,916.27	1,968.20	1,979.83
Texas	634.29	681.83	688.40	874.73	894.87	973.72	1,097.63	965.87	1,005.88	1,091.80
Utah	46.86	52.56	60.53	70.75	58.82	50.61	50.90	42.39	44.45	42.10
Vermont	564.32	612.96	577.68	618.70	558.02	616.19	556.88	582.08	566.76	554.66
Virginia	588.10	606.42	652.49	726.60	713.04	697.16	660.66	712.75	762.69	801.81
Washington	1,206.06	1,351.91	1,195.10	1,291.61	1,203.24	1,289.95	1,275.46	1,577.21	1,789.82	1,593.94

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West Virginia	825.75	1,070.57	1,007.99	987.76	974.15	986.03	902.19	922.60	964.78	940.88
Wisconsin	455.36	506.07	463.96	499.61	516.86	481.38	544.58	529.16	576.95	600.07
Wyoming	17.41	17.13	17.11	16.70	16.43	16.17	16.23	NA	NA	1,487.63
Puerto Rico	190.99	204.64	200.51	183.91	185.15	169.10	293.78	295.76	178.01	162.96

NA not available

Note(s):
The national value for the United States for student aid includes Puerto Rico; The national enrollment total for the United States includes data from U.S. Service Academies not allocated to states, as well as U.S. territories.

Source(s):
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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

State Expenditures on Student Aid per Undergraduate Student

(Dollars)

State	2015
United States	961.21
Alabama	31.11
Alaska	552.16
Arizona	68.34
Arkansas	1,285.64
California	2,067.17
Colorado	523.74
Connecticut	370.66
Delaware	662.60
District of Columbia	625.52
Florida	488.22
Georgia	1,883.66
Hawaii	105.34
Idaho	56.30
Illinois	1,091.30
Indiana	1,041.66
Iowa	455.38
Kansas	165.56
Kentucky	1,478.20
Louisiana	1,987.89
Maine	316.50
Maryland	615.59
Massachusetts	333.80

State Indicators

State	2015
Michigan	300.94
Minnesota	1,002.21
Mississippi	406.58
Missouri	482.63
Montana	135.76
Nebraska	247.90
Nevada	389.23
New Hampshire	NA
New Jersey	2,036.84
New Mexico	1,948.98
New York	1,422.43
North Carolina	1,155.70
North Dakota	402.90
Ohio	322.21
Oklahoma	795.74
Oregon	514.70
Pennsylvania	1,025.58
Rhode Island	132.06
South Carolina	2,819.43
South Dakota	120.69
Tennessee	2,021.11
Texas	1,134.75
Utah	42.47
Vermont	522.28
Virginia	1,235.96
Washington	1,532.05

State Indicators

State	2015
West Virginia	981.67
Wisconsin	616.45
Wyoming	1,437.54
Puerto Rico	156.93

NA not available

Note(s):
The national value for the United States for student aid includes Puerto Rico; The national enrollment total for the United States includes data from U.S. Service Academies not allocated to states, as well as U.S. territories.

Source(s):
National Association of State Student Grant and Aid Programs, Annual Survey Report (various years), data as of October 2017; U.S. Department of Education, National Center for Education Statistics, Digest of Education Statistics (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

State expenditures on student aid

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
United States	2,156,709	2,384,288	2,804,883	2,870,447	3,038,009	3,313,030	3,613,714	4,009,267	4,605,393	5,034,649
Alabama	7,780	8,537	9,087	8,320	8,163	7,890	7,665	7,487	7,413	7,335
Alaska	495	508	444	430	213	240	NA	NA	NA	NA
Arizona	2,437	3,476	3,482	2,291	2,748	3,160	2,731	2,727	2,990	2,812
Arkansas	7,133	8,443	9,647	11,727	13,725	15,400	20,235	30,936	39,151	37,897
California	151,379	207,969	232,067	235,582	257,544	284,410	331,636	369,785	461,914	514,348
Colorado	23,782	27,992	30,873	36,401	39,446	41,750	54,151	54,151	54,151	60,013
Connecticut	20,805	20,641	20,905	20,374	20,299	26,360	33,117	37,401	44,763	45,175
Delaware	1,326	1,472	1,235	1,390	1,183	1,550	1,692	1,293	1,432	1,626
District of Columbia	1,015	1,022	1,022	939	939	940	728	743	781	1,321
Florida	76,029	87,735	98,710	100,363	109,048	134,310	169,947	225,553	302,633	321,447
Georgia	24,377	58,995	116,557	165,220	185,867	209,210	221,350	240,458	310,995	362,201
Hawaii	724	748	732	499	379	590	493	490	535	531
Idaho	845	899	1,043	1,027	977	970	1,053	1,127	1,138	4,810
Illinois	220,450	231,430	270,322	282,809	298,993	311,460	338,128	360,177	382,566	407,622
Indiana	56,191	NA	68,162	69,599	79,149	86,440	100,824	106,169	111,618	126,390
Iowa	34,494	35,193	36,111	39,431	42,411	45,390	48,719	51,823	53,100	51,668
Kansas	6,954	9,125	11,920	9,588	10,235	10,380	11,774	12,397	12,819	13,099
Kentucky	20,520	20,619	25,517	26,215	28,902	27,200	38,441	48,444	66,931	86,325
Louisiana	7,666	11,654	13,079	15,053	16,705	19,590	55,237	68,391	91,166	104,117
Maine	5,200	5,170	5,787	6,988	6,636	7,700	7,701	10,360	11,961	12,021
Maryland	26,509	29,805	31,635	36,066	42,188	43,390	45,339	45,683	50,416	51,910
Massachusetts	46,239	45,309	61,945	54,646	57,477	74,400	92,173	103,301	116,892	114,600
Michigan	75,469	79,735	81,340	84,154	85,872	90,480	92,299	91,109	102,164	106,244

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Minnesota	83,190	102,960	97,960	92,099	92,746	96,440	113,429	113,750	120,465	130,408
Mississippi	1,301	1,311	1,306	1,235	590	1,110	926	20,163	20,163	21,481
Missouri	21,367	21,875	23,186	24,236	26,654	29,020	35,178	39,504	43,882	43,488
Montana	418	401	419	393	314	1,320	1,396	2,953	3,195	2,810
Nebraska	2,613	2,686	2,726	3,114	3,211	4,090	4,692	5,645	5,975	7,380
Nevada	341	342	342	3,063	3,707	5,900	5,900	6,083	13,449	19,899
New Hampshire	1,263	850	1,493	773	679	1,340	1,753	1,506	1,497	3,075
New Jersey	127,295	143,193	169,824	141,198	161,033	161,410	176,843	189,294	197,619	212,195
New Mexico	8,423	9,397	14,031	16,988	19,565	37,470	28,637	33,872	38,736	39,395
New York	562,988	624,212	643,863	630,069	633,902	642,970	628,246	611,167	659,394	699,481
North Carolina	27,381	39,219	42,714	43,968	46,248	84,060	94,886	109,004	121,153	134,196
North Dakota	2,459	2,335	2,312	2,187	2,454	2,380	2,322	2,431	1,152	1,776
Ohio	93,680	106,867	124,132	120,967	128,652	139,350	144,646	163,994	173,868	194,039
Oklahoma	17,245	19,546	16,311	20,501	22,046	25,670	26,462	26,595	29,035	31,464
Oregon	12,606	12,903	13,761	13,651	16,241	15,800	16,027	17,891	19,711	19,866
Pennsylvania	173,376	188,955	218,668	232,020	241,296	251,550	270,724	280,402	325,234	337,014
Rhode Island	9,586	6,500	6,340	5,741	5,699	6,010	5,717	61,722	6,164	6,077
South Carolina	17,105	16,795	17,297	18,622	21,540	21,920	22,853	33,198	98,095	102,039
South Dakota	677	661	661	562	346	NA	NA	857	NA	NA
Tennessee	14,590	17,750	19,146	19,289	19,364	21,220	21,499	21,383	30,156	37,915
Texas	27,467	29,102	29,102	40,768	42,761	60,670	61,728	93,814	108,628	199,523
Utah	1,115	1,132	2,660	1,197	2,170	1,960	1,957	2,735	2,511	4,069
Vermont	11,120	11,167	11,838	11,874	11,318	12,340	12,837	48,840	14,414	15,636
Virginia	25,575	25,944	71,224	77,386	80,064	83,310	95,322	70,717	115,242	110,467
Washington	23,571	46,617	54,210	57,866	59,631	70,940	75,692	76,581	98,533	102,458
West Virginia	5,868	5,802	13,081	8,132	10,527	12,140	13,103	18,982	18,217	21,054

State Indicators

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Wisconsin	45,928	49,039	52,355	49,528	52,168	53,710	56,841	52,020	71,145	68,167
Wyoming	225	250	225	219	160	200	155	155	NA	163
Puerto Rico	20,117	NA	22,074	23,689	23,824	25,520	18,510	34,004	40,231	35,602

NA not available

Science and Engineering Indicators 2018

State Indicators

State expenditures on student aid

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	5,169,740	5,719,875	6,441,720	6,822,658	7,373,082	7,895,963	8,418,874	8,730,773	9,105,486	9,251,629
Alabama	6,701	5,084	2,919	7,626	8,772	19,841	22,286	26,749	19,193	18,695
Alaska	NA	NA	NA	502	587	670	1,977	856	1,514	5,825
Arizona	2,790	2,865	2,954	2,798	13,231	12,179	20,795	18,429	19,932	15,858
Arkansas	28,230	29,704	18,056	28,364	30,212	33,314	36,334	42,301	146,496	149,672
California	544,893	654,549	723,165	757,809	763,008	813,374	875,490	1,040,875	1,269,917	1,492,492
Colorado	64,694	60,266	59,151	60,737	67,300	75,259	82,265	70,841	70,970	69,465
Connecticut	15,938	36,771	36,773	39,366	41,717	64,475	63,068	63,345	63,611	52,079
Delaware	2,016	12,703	11,439	10,240	13,489	16,980	16,855	19,621	19,435	20,114
District of Columbia	NA	27,571	31,357	33,856	33,666	33,496	34,208	34,381	34,713	35,186
Florida	290,935	326,468	365,413	410,758	484,227	533,073	582,294	574,031	577,736	484,187
Georgia	397,277	431,951	459,043	461,615	480,730	497,667	566,590	672,937	768,449	561,020
Hawaii	408	408	418	410	408	408	1,908	3,408	3,339	3,774
Idaho	5,055	4,982	5,551	5,424	5,750	6,221	8,071	5,704	5,064	6,287
Illinois	370,408	347,565	367,674	380,349	444,348	415,298	412,593	414,351	407,825	427,563
Indiana	136,733	161,263	172,187	182,281	200,237	223,676	244,000	229,821	251,254	250,395
Iowa	50,065	49,285	51,252	53,815	55,535	59,573	65,681	57,467	57,848	57,602
Kansas	NA	14,073	15,966	15,168	16,498	19,090	18,662	18,231	17,590	17,945
Kentucky	109,933	143,338	160,094	172,866	184,399	186,988	190,180	195,585	193,206	194,800
Louisiana	105,011	111,602	116,289	116,432	120,305	137,347	157,722	162,053	178,753	197,411
Maine	12,547	12,561	12,609	13,387	15,556	17,916	16,290	13,720	15,230	15,440
Maryland	43,513	50,390	56,902	76,362	95,089	99,726	98,146	96,760	90,535	89,812
Massachusetts	83,207	79,735	79,526	80,093	83,682	86,342	95,286	86,927	87,823	87,831
Michigan	95,720	162,225	197,106	197,674	206,242	189,078	168,753	49,093	85,612	88,309

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	133,586	119,641	131,058	131,010	162,919	156,433	153,382	185,926	130,073	150,226
Mississippi	20,348	21,367	21,516	22,285	22,588	22,923	23,418	21,701	22,198	22,910
Missouri	41,144	41,233	57,116	42,068	59,768	109,998	129,264	120,488	90,774	96,995
Montana	2,825	2,542	3,018	3,760	4,563	4,367	5,867	5,648	5,877	6,459
Nebraska	2,458	8,742	8,337	9,918	10,388	12,537	12,828	14,431	15,671	15,465
Nevada	NA	34,535	40,650	39,671	38,353	39,109	39,919	41,871	47,838	50,587
New Hampshire	3,170	3,651	3,648	3,753	3,727	3,732	3,551	3,749	2,967	NA
New Jersey	217,285	225,282	247,374	256,047	279,219	292,500	319,061	372,146	333,404	350,444
New Mexico	14,959	29,821	57,573	61,780	70,518	67,781	75,476	77,757	89,254	92,592
New York	755,681	875,299	905,754	895,129	861,448	824,174	850,368	941,206	896,266	963,388
North Carolina	121,616	156,604	156,056	192,018	221,632	286,773	376,699	382,126	378,366	327,271
North Dakota	1,794	1,756	1,806	1,864	2,238	3,778	3,615	9,446	12,198	13,441
Ohio	197,726	200,787	238,734	221,411	255,593	254,785	283,899	108,180	109,731	108,789
Oklahoma	32,457	28,841	47,515	58,216	66,075	75,823	85,561	87,905	92,122	92,666
Oregon	17,290	21,782	23,265	29,429	33,383	35,036	68,881	77,188	19,287	43,752
Pennsylvania	348,788	360,816	365,712	403,957	457,980	460,451	376,640	415,186	368,459	456,794
Rhode Island	6,310	12,296	13,821	12,883	13,021	15,336	10,652	11,002	13,170	12,609
South Carolina	138,062	225,297	242,745	255,744	271,239	295,627	317,068	322,801	325,348	324,719
South Dakota	NA	NA	NA	2,912	2,140	2,416	3,550	3,945	4,418	4,104
Tennessee	46,423	42,395	129,181	173,907	231,287	279,300	310,142	337,906	353,273	366,803
Texas	322,798	156,529	336,433	366,873	374,730	484,807	517,763	592,399	684,905	610,777
Utah	3,778	4,081	6,704	7,409	8,566	10,705	9,636	9,046	9,674	8,687
Vermont	16,224	17,149	15,783	17,560	17,189	18,804	17,380	19,338	17,328	18,328
Virginia	108,579	110,621	123,877	132,720	149,296	173,813	184,771	193,964	188,585	205,922
Washington	114,712	134,280	149,406	173,835	184,942	205,891	222,736	239,052	234,238	293,292
West Virginia	29,175	52,087	55,152	70,981	77,883	82,487	93,391	101,221	100,916	103,974

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	70,117	75,920	82,294	93,583	93,802	102,533	110,799	107,188	119,616	115,366
Wyoming	161	163	167	163	163	162	163	165	167	NA
Puerto Rico	36,200	30,999	31,181	33,840	33,444	31,891	32,940	30,306	53,318	53,507

NA not available

Science and Engineering Indicators 2018

State Indicators

State expenditures on student aid

State	2013	2014	2015	2016
United States	9,391,909	9,800,105	10,315,572	10,507,956
Alabama	8,791	8,791	5,396	6,808
Alaska	9,600	11,714	15,557	16,334
Arizona	21,428	21,347	22,998	22,604
Arkansas	150,853	134,118	124,649	120,045
California	1,519,221	1,674,321	1,858,683	1,904,607
Colorado	69,858	74,033	102,918	121,605
Connecticut	21,600	40,073	40,883	42,030
Delaware	20,262	21,316	22,765	22,721
District of Columbia	34,136	31,794	31,079	31,756
Florida	464,812	455,923	429,349	402,988
Georgia	535,992	569,924	616,094	688,310
Hawaii	3,225	3,782	3,590	3,267
Idaho	5,327	4,979	5,104	5,328
Illinois	371,908	373,324	358,265	320,401
Indiana	259,507	275,540	294,902	296,931
Iowa	62,798	64,370	65,626	65,348
Kansas	17,897	18,143	18,429	17,604
Kentucky	195,457	203,432	205,365	218,474
Louisiana	217,234	248,678	277,215	281,696
Maine	16,407	12,065	14,009	18,328
Maryland	90,645	109,601	99,500	93,379
Massachusetts	92,843	91,105	92,169	90,250
Michigan	92,674	96,172	101,391	104,407

State Indicators

State	2013	2014	2015	2016
Minnesota	169,251	179,999	186,999	182,182
Mississippi	24,827	27,954	31,278	35,982
Missouri	104,260	107,412	111,342	119,945
Montana	5,512	5,044	5,045	1,737
Nebraska	15,999	17,341	17,409	19,415
Nevada	52,602	33,630	34,841	42,982
New Hampshire	NA	NA	NA	NA
New Jersey	375,239	392,342	410,069	409,615
New Mexico	73,127	92,820	101,684	86,175
New York	971,804	978,046	1,021,144	1,006,121
North Carolina	340,601	333,111	304,673	317,787
North Dakota	16,129	16,463	15,961	18,698
Ohio	121,398	119,394	126,797	130,949
Oklahoma	94,367	95,394	97,832	98,709
Oregon	52,134	55,374	57,771	64,671
Pennsylvania	450,897	458,970	450,881	449,053
Rhode Island	12,406	11,921	7,366	7,786
South Carolina	353,219	356,535	366,035	381,577
South Dakota	4,336	4,708	4,901	5,114
Tennessee	373,616	365,841	367,089	395,324
Texas	643,278	712,974	763,619	840,551
Utah	8,867	8,858	9,669	12,380
Vermont	17,519	17,392	16,354	16,879
Virginia	220,301	231,542	356,804	379,397
Washington	345,679	354,776	368,216	356,456
West Virginia	106,143	104,832	104,741	99,877

State Indicators

State	2013	2014	2015	2016
Wisconsin	123,827	128,579	128,731	125,705
Wyoming	NA	15,150	14,512	NA
Puerto Rico	32,096	29,160	27,875	7,665

NA not available

Science and Engineering Indicators 2018

State Indicators

Undergraduate enrollment at 4-year institutions

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	6,884,351	6,908,079	6,988,736	7,124,257	7,238,778	7,362,225	7,627,885	7,898,073	8,153,342	8,406,676
Alabama	120,895	118,696	119,520	121,407	122,985	130,189	127,475	133,000	136,386	139,033
Alaska	26,641	26,174	25,157	24,882	24,191	24,573	24,939	26,191	27,675	27,377
Arizona	88,412	91,803	94,758	97,317	106,541	111,429	124,389	139,205	158,223	192,819
Arkansas	63,756	63,071	63,130	69,246	70,292	70,538	73,369	74,577	77,342	79,007
California	517,769	535,096	553,026	566,462	591,178	599,658	636,105	661,166	669,997	679,920
Colorado	119,686	124,566	128,088	130,146	132,449	133,500	138,846	140,857	145,982	154,427
Connecticut	79,673	77,983	78,055	79,499	81,091	85,143	87,335	88,974	88,979	90,774
Delaware	26,513	26,753	26,596	27,107	27,840	25,761	28,125	29,071	28,174	27,996
District of Columbia	43,365	41,003	39,253	40,163	40,024	40,703	52,262	54,528	57,250	59,930
Florida	235,558	240,814	250,025	258,869	276,292	288,143	310,145	350,141	430,620	457,808
Georgia	175,093	176,221	181,471	182,796	187,955	188,383	198,254	208,348	220,771	234,213
Hawaii	28,048	27,759	27,391	27,345	26,984	26,290	27,637	29,393	30,761	30,956
Idaho	36,169	36,424	36,824	37,751	39,168	39,343	50,969	52,894	54,980	55,877
Illinois	259,759	258,887	261,085	269,283	272,666	276,559	281,619	286,945	291,783	298,037
Indiana	205,747	205,321	207,991	210,951	214,443	217,294	222,510	227,096	229,645	230,454
Iowa	93,412	93,864	94,324	96,438	96,192	97,241	99,468	102,988	109,200	110,724
Kansas	81,295	79,647	80,067	81,270	82,419	84,620	86,126	88,197	89,716	91,803
Kentucky	107,893	106,902	107,361	109,480	108,768	109,981	112,935	116,477	119,916	121,518
Louisiana	143,810	141,882	144,355	145,791	146,375	146,259	146,230	148,451	154,154	157,201
Maine	40,895	40,389	40,338	40,585	41,678	42,093	43,082	43,158	43,619	44,104
Maryland	108,231	108,436	108,775	110,860	113,870	117,720	122,430	125,954	128,279	130,334
Massachusetts	236,525	237,334	236,940	233,905	233,714	235,263	235,697	238,447	237,057	238,366
Michigan	264,454	266,314	269,831	275,495	281,390	287,233	295,912	302,573	308,936	314,782

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Minnesota	137,830	138,613	132,898	143,570	137,439	142,734	152,381	157,245	161,665	164,791
Mississippi	56,733	57,370	58,999	59,660	59,778	61,043	62,595	63,249	63,866	65,345
Missouri	166,157	164,633	171,250	175,718	177,454	180,799	182,463	191,421	198,442	203,040
Montana	32,170	32,494	32,680	32,508	32,647	32,393	33,462	33,437	33,911	33,615
Nebraska	62,045	61,348	60,414	59,602	58,935	58,789	59,388	59,793	60,089	62,427
Nevada	24,519	24,874	25,811	26,944	30,615	32,012	34,274	36,808	39,827	76,669
New Hampshire	40,511	40,674	43,259	42,964	43,096	40,367	42,534	43,174	43,706	43,821
New Jersey	146,595	147,138	148,330	149,904	154,572	156,867	161,329	164,763	166,817	167,863
New Mexico	40,438	39,601	41,369	41,833	43,589	43,089	43,285	45,036	46,468	50,348
New York	560,579	561,015	559,556	558,962	567,673	569,260	581,671	598,600	602,782	609,027
North Carolina	182,725	183,080	186,339	187,603	189,156	191,117	196,748	203,230	208,740	215,536
North Dakota	28,514	28,386	27,051	27,340	27,843	28,462	29,951	32,233	33,391	34,010
Ohio	300,831	298,802	302,135	306,685	304,109	302,681	309,285	319,590	318,106	326,174
Oklahoma	90,281	90,145	90,331	91,467	93,390	98,512	102,808	107,359	111,133	114,090
Oregon	66,714	68,037	69,088	70,883	73,098	76,071	80,385	84,067	86,379	89,212
Pennsylvania	356,314	355,945	360,839	364,879	371,748	377,646	386,220	394,948	402,492	409,046
Rhode Island	45,757	47,023	47,108	48,231	48,760	49,484	50,452	51,215	52,215	52,831
South Carolina	86,620	87,175	87,780	89,909	91,707	92,074	95,652	98,780	100,812	103,533
South Dakota	31,718	30,508	29,596	30,884	31,605	32,310	33,125	35,647	37,378	37,315
Tennessee	133,310	133,303	135,139	137,237	139,913	139,743	142,697	145,933	148,399	154,060
Texas	405,011	402,135	402,879	411,305	414,269	432,747	449,177	465,423	484,106	495,259
Utah	102,588	103,981	106,986	106,939	112,409	120,151	128,285	131,428	134,176	138,646
Vermont	25,652	26,003	26,694	26,983	26,793	25,972	26,395	26,265	27,034	27,166
Virginia	167,392	168,987	171,916	174,801	179,218	180,573	180,228	185,894	190,418	202,472
Washington	97,139	98,594	99,537	101,282	102,994	105,470	110,310	114,968	119,177	122,495
West Virginia	66,079	65,813	67,287	67,762	68,668	68,435	69,795	71,692	71,151	67,215

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Wisconsin	158,986	160,408	162,828	164,978	166,931	168,547	170,859	173,380	175,200	177,251
Wyoming	8,805	8,820	8,567	8,598	8,438	8,550	8,907	9,250	9,385	9,589
Puerto Rico	138,665	138,211	138,154	157,988	144,091	149,699	156,795	163,804	165,620	165,293

Science and Engineering Indicators 2018

State Indicators

Undergraduate enrollment at 4-year institutions

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	8,645,558	8,837,726	9,160,973	9,576,094	10,228,616	10,584,063	10,751,445	10,758,071	10,694,746	10,765,539
Alabama	140,142	143,386	149,384	183,162	172,528	180,746	176,759	175,979	173,148	173,790
Alaska	26,802	26,382	26,873	27,132	28,785	29,943	30,749	29,032	29,634	30,084
Arizona	242,591	262,642	319,911	378,866	476,527	427,248	433,785	393,094	361,532	352,770
Arkansas	81,086	82,437	84,545	86,667	90,886	94,694	97,013	97,156	97,012	97,002
California	698,811	714,347	736,470	750,965	766,979	778,185	809,090	830,583	843,741	904,970
Colorado	160,580	168,860	174,660	181,904	188,522	196,002	196,643	197,123	197,254	196,041
Connecticut	92,522	93,832	93,750	96,753	98,311	104,166	106,932	108,312	109,142	110,671
Delaware	29,225	28,268	28,084	28,438	29,698	30,624	31,640	32,672	33,540	34,270
District of Columbia	62,888	65,318	68,124	76,586	83,548	50,330	48,459	47,699	47,007	47,919
Florida	466,469	504,557	535,571	587,097	718,795	826,192	884,228	905,976	909,635	906,356
Georgia	222,706	236,664	251,672	266,808	294,317	314,716	322,458	320,294	315,523	326,153
Hawaii	34,336	33,963	33,418	34,471	35,674	36,423	38,071	38,228	37,124	36,012
Idaho	57,809	57,505	58,351	59,010	60,548	61,397	65,074	73,753	76,335	85,324
Illinois	333,959	330,331	335,500	343,104	350,954	356,725	351,725	346,253	335,966	333,956
Indiana	241,153	243,669	252,939	259,489	277,138	287,660	288,387	286,209	286,172	285,102
Iowa	119,841	127,886	141,470	166,514	213,628	231,876	221,384	214,523	199,292	149,265
Kansas	92,127	92,962	93,408	95,529	97,633	99,290	100,750	100,808	103,989	114,357
Kentucky	126,074	127,630	130,204	130,274	138,160	144,358	146,072	145,047	143,162	140,425
Louisiana	135,457	141,348	137,793	140,163	142,410	143,713	144,475	142,741	139,293	137,786
Maine	44,100	44,270	43,834	43,462	43,567	44,105	43,972	44,074	43,071	43,604
Maryland	130,057	135,317	137,376	140,784	145,406	153,770	155,690	154,787	152,853	160,512
Massachusetts	243,742	246,799	251,303	256,937	262,354	269,337	268,140	273,715	274,039	274,194
Michigan	318,373	320,345	322,084	323,385	335,096	344,176	341,985	335,684	333,936	333,759

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	167,954	170,616	176,746	183,329	194,800	206,149	203,079	198,675	194,541	191,579
Mississippi	65,515	65,791	66,633	67,127	69,590	71,990	75,152	75,773	74,539	75,264
Missouri	209,818	212,159	212,499	218,700	231,461	242,972	254,357	246,088	247,148	234,917
Montana	33,784	33,677	33,075	33,391	35,496	37,242	39,110	38,775	38,747	38,001
Nebraska	62,753	63,983	65,242	65,693	68,575	70,527	70,231	69,571	70,260	70,356
Nevada	80,249	81,180	88,674	92,307	96,388	98,858	93,013	90,486	89,414	92,098
New Hampshire	43,915	44,860	44,641	45,831	47,057	47,161	48,794	51,839	57,833	68,762
New Jersey	167,990	171,282	178,326	183,112	190,084	197,377	201,059	201,210	202,498	205,662
New Mexico	50,390	50,546	51,730	52,659	55,512	57,802	59,125	58,978	57,587	55,045
New York	617,536	624,730	630,062	678,593	699,585	702,405	712,725	717,459	715,359	719,595
North Carolina	224,053	230,576	237,155	243,631	252,105	259,135	259,914	259,388	259,007	261,601
North Dakota	33,164	34,017	34,329	38,778	41,231	42,392	41,423	41,255	40,570	39,882
Ohio	334,964	337,332	343,976	353,284	382,054	409,442	412,936	411,156	406,144	400,102
Oklahoma	115,304	114,011	118,406	117,799	123,258	127,329	128,649	128,837	128,171	125,341
Oregon	90,742	91,031	92,740	96,641	102,332	107,258	112,271	112,784	113,325	112,032
Pennsylvania	415,319	423,915	433,623	438,118	452,944	463,754	457,606	456,173	453,150	446,951
Rhode Island	53,930	54,189	54,765	55,312	56,018	56,199	56,056	55,454	55,557	55,899
South Carolina	104,430	105,408	107,793	114,705	120,219	125,859	127,415	126,871	126,827	128,619
South Dakota	37,183	37,090	37,664	38,420	40,389	43,860	42,527	42,618	41,484	40,774
Tennessee	157,956	162,843	167,931	171,186	179,677	190,938	192,406	191,415	189,826	184,784
Texas	530,410	538,069	544,347	554,233	578,587	608,386	623,983	632,361	639,515	653,026
Utah	143,077	140,967	141,506	151,316	163,809	178,728	190,067	204,942	199,496	210,393
Vermont	27,968	28,648	29,755	30,393	31,146	31,383	31,116	31,487	30,911	31,356
Virginia	210,638	218,857	228,811	239,213	259,130	278,221	285,448	288,910	288,847	288,775
Washington	123,879	128,585	154,750	159,407	185,114	185,319	183,650	185,956	193,136	222,578
West Virginia	66,790	66,302	77,266	83,509	95,869	102,655	111,857	112,697	110,018	111,419

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	180,721	184,922	202,179	205,226	214,368	222,669	219,649	218,017	214,624	214,273
Wyoming	9,591	9,516	9,528	9,699	9,922	10,206	10,287	10,339	10,192	10,184
Puerto Rico	163,259	165,366	166,792	173,409	177,909	179,216	181,489	180,914	180,303	178,936

Science and Engineering Indicators 2018

State Indicators

Undergraduate enrollment at 4-year institutions

State	2015
United States	10,731,813
Alabama	173,441
Alaska	28,175
Arizona	336,507
Arkansas	96,955
California	899,144
Colorado	196,507
Connecticut	110,298
Delaware	34,357
District of Columbia	49,685
Florida	879,413
Georgia	327,073
Hawaii	34,079
Idaho	90,654
Illinois	328,292
Indiana	283,108
Iowa	144,113
Kansas	111,314
Kentucky	138,929
Louisiana	139,452
Maine	44,262
Maryland	161,634
Massachusetts	276,124
Michigan	336,915

State Indicators

State	2015
Minnesota	186,587
Mississippi	76,930
Missouri	230,698
Montana	37,162
Nebraska	70,226
Nevada	89,512
New Hampshire	82,139
New Jersey	201,326
New Mexico	52,173
New York	717,886
North Carolina	263,627
North Dakota	39,615
Ohio	393,518
Oklahoma	122,945
Oregon	112,241
Pennsylvania	439,637
Rhode Island	55,777
South Carolina	129,826
South Dakota	40,609
Tennessee	181,627
Texas	672,943
Utah	227,669
Vermont	31,313
Virginia	288,685
Washington	240,342
West Virginia	106,697

State Indicators

State	2015
Wisconsin	208,828
Wyoming	10,095
Puerto Rico	177,624
Science and Engineering Indicators 2018	

State Indicators

S-28 State Support for Higher Education per Full-Time Equivalent Student

Description

Public universities rely on state support for a substantial share of their operating revenues, most of which support their education function. The amount of funding provided per full-time equivalent (FTE) student in public universities is an indicator of a state's investment in the education of its students.

Data are drawn from the annual State Higher Education Finance report produced by the association of State Higher Education Executive Officers (SHEEO). SHEEO collects data on all state and local revenues used to support higher education, including revenue from taxes, lottery receipts, royalty revenue, and state-funded endowments. This indicator also takes into account FTE enrollment in public higher education, which is calculated from the aggregate number of enrolled credit hours (including summer session enrollments but excluding most noncredit or nondegree program enrollments and medical school enrollments). This measure is equivalent to one student enrolled full time for one academic year.

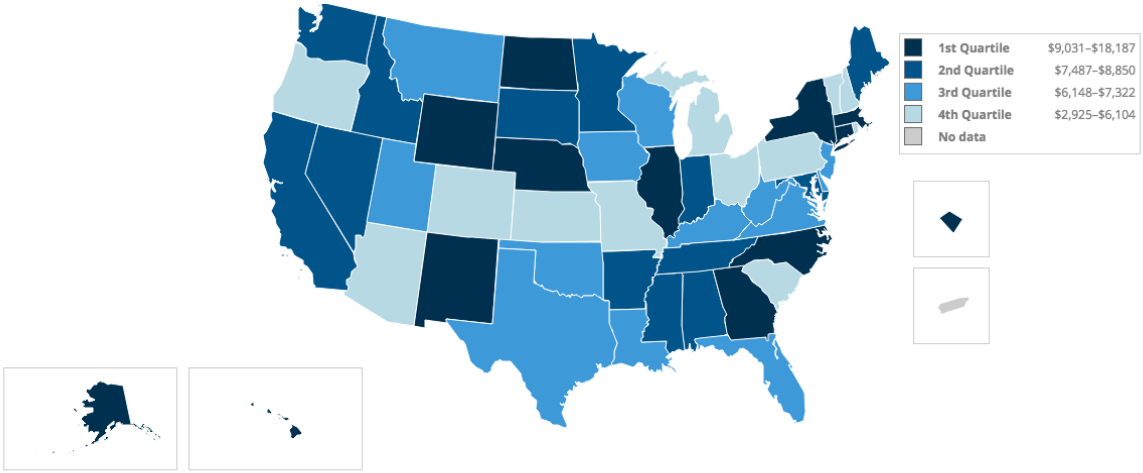
State funds are one of many sources of public university revenue. This indicator does not include changes in these other sources of revenue.

Data source: State Higher Education Executive Officers Association, State Higher Education Finance.

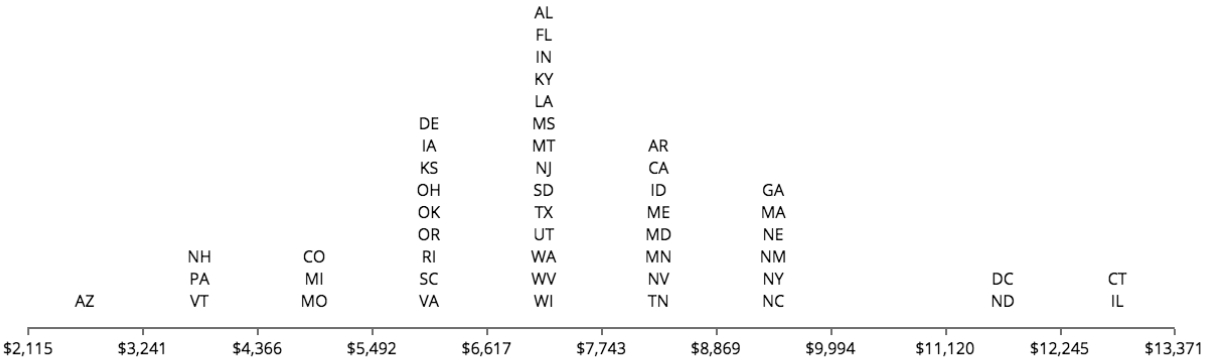
State Indicators

S-28 State Support for Higher Education per Full-Time Equivalent Student

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

State Support for Higher Education per Full-Time Equivalent Student

(Dollars)

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	6,504	6,925	6,835	6,448	6,189	6,345	6,841	7,277	7,611	6,951
Alabama	6,513	6,490	6,360	6,371	6,346	6,652	7,648	9,063	10,279	7,795
Alaska	10,958	11,857	12,052	11,747	11,469	12,397	13,371	15,330	15,966	16,770
Arizona	4,791	4,831	4,861	4,437	4,315	4,510	4,708	5,174	5,656	4,672
Arkansas	7,032	6,790	6,520	6,576	6,779	6,530	7,347	7,619	8,281	8,096
California	5,506	6,923	7,143	6,528	6,039	6,199	7,159	7,478	7,529	5,832
Colorado	4,768	4,990	4,880	3,794	3,535	3,622	4,000	4,314	4,482	3,922
Connecticut	11,471	11,227	11,410	10,821	10,436	10,663	11,057	12,074	13,063	12,664
Delaware	6,022	6,381	6,924	5,832	6,450	6,618	6,885	7,392	7,591	7,473
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	6,415	7,027	6,563	6,446	6,140	6,858	7,207	8,075	7,845	6,909
Georgia	10,867	9,536	8,677	7,959	7,903	8,129	8,806	9,109	9,314	8,497
Hawaii	10,528	10,658	10,533	10,712	11,227	11,440	13,025	14,359	15,595	16,286
Idaho	7,563	8,189	8,701	7,785	7,487	7,763	8,127	8,620	9,302	9,285
Illinois	7,185	7,585	7,746	7,017	6,776	6,812	6,695	7,152	7,884	8,046
Indiana	6,297	6,543	5,753	6,004	6,069	6,279	6,299	6,332	6,468	6,489
Iowa	7,490	7,582	6,657	6,282	5,877	5,904	6,496	6,657	7,118	7,318
Kansas	6,473	6,735	6,759	6,166	6,161	6,429	5,998	6,132	6,410	6,147
Kentucky	8,078	8,311	8,194	7,485	7,591	7,137	8,010	8,275	8,653	8,248
Louisiana	5,730	5,918	6,544	6,665	6,713	6,941	7,661	8,670	10,211	9,969
Maine	7,126	7,585	7,600	7,018	6,584	6,741	6,803	7,102	7,511	7,213
Maryland	5,971	7,042	7,185	6,876	6,630	5,786	6,270	6,963	7,133	6,683
Massachusetts	8,489	9,239	8,207	7,177	6,370	7,240	7,895	8,436	8,764	7,337

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Michigan	6,074	6,368	6,163	5,822	5,125	5,004	5,082	5,064	4,943	4,802
Minnesota	7,984	7,864	7,918	6,770	6,467	6,394	6,928	6,978	7,639	7,293
Mississippi	8,356	7,669	6,799	6,547	6,587	6,391	6,514	7,555	8,869	8,216
Missouri	6,092	6,309	5,255	5,251	5,283	5,696	5,639	5,876	5,970	5,941
Montana	4,114	4,210	4,364	4,175	4,208	4,327	4,876	4,856	5,528	5,702
Nebraska	7,208	7,448	7,576	7,677	7,078	7,140	7,718	8,115	8,376	8,332
Nevada	6,547	6,581	6,950	6,604	8,386	8,403	9,115	9,683	9,791	9,491
New Hampshire	3,489	4,059	3,735	3,767	3,651	3,705	3,658	3,816	3,997	3,999
New Jersey	8,395	8,827	8,855	8,375	8,184	7,913	8,490	8,161	8,170	7,644
New Mexico	7,686	7,046	7,473	8,527	8,824	9,522	10,400	11,348	11,797	10,541
New York	6,357	6,529	6,571	6,623	6,108	6,666	7,372	8,127	8,443	8,339
North Carolina	8,398	8,533	8,033	7,845	7,590	7,594	8,406	9,398	10,036	8,618
North Dakota	6,089	5,812	6,050	5,869	5,666	5,811	6,257	6,353	7,251	6,961
Ohio	6,169	6,436	5,869	5,583	5,473	5,252	5,625	5,648	5,731	5,954
Oklahoma	6,663	6,893	6,391	6,521	5,708	5,734	6,549	7,763	8,304	8,396
Oregon	4,802	5,897	5,285	5,027	4,612	4,584	4,885	5,086	5,560	4,815
Pennsylvania	6,000	6,177	6,079	5,618	5,325	5,475	5,573	5,698	5,720	5,432
Rhode Island	5,988	6,477	6,653	6,417	6,367	6,417	6,602	6,547	6,089	5,181
South Carolina	6,115	6,150	5,614	7,149	5,980	6,273	6,692	7,096	7,449	5,608
South Dakota	5,355	5,538	5,724	5,301	5,455	5,702	5,652	6,105	6,704	6,083
Tennessee	6,061	6,503	6,612	6,477	6,329	7,719	7,854	8,425	9,044	8,461
Texas	6,942	6,936	7,381	6,373	6,378	6,174	6,787	7,052	7,755	7,300
Utah	5,960	6,023	6,015	5,634	5,625	5,975	6,582	6,984	7,823	6,920
Vermont	3,460	3,621	3,749	3,854	3,816	3,772	3,794	3,901	3,962	3,686
Virginia	6,045	6,599	6,512	5,370	4,994	5,432	5,753	6,512	6,380	6,162
Washington	6,124	6,328	6,226	6,122	6,055	6,453	7,060	7,431	7,818	7,469

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
West Virginia	6,116	6,448	6,680	6,371	5,765	5,963	5,771	6,214	7,578	6,790
Wisconsin	5,571	5,809	5,711	5,640	5,139	5,119	5,031	5,293	5,518	5,606
Wyoming	9,102	7,443	7,829	8,867	9,027	9,705	11,175	12,270	12,601	13,853
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national value for the United States for support for public higher education includes Puerto Rico; FTE enrollment includes only enrollment at public higher education institutions and equates student credit hours to full-time, academic-year students but excludes medical students. The national value for the United States includes Puerto Rico.

Source(s):
State Higher Education Executive Officers Association, State Higher Education Finance (various years), data as of March 2018.

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Science and Engineering Indicators 2018

State Indicators

State Support for Higher Education per Full-Time Equivalent Student

(Dollars)

State	2010	2011	2012	2013	2014	2015	2016	2017
United States	6,284	6,304	6,042	6,264	6,715	7,142	7,349	7,625
Alabama	6,655	6,574	7,106	6,998	7,291	7,425	7,443	7,633
Alaska	16,448	16,522	16,619	17,632	18,932	19,340	18,768	18,187
Arizona	4,170	3,940	2,981	3,101	3,244	3,337	2,865	2,925
Arkansas	7,831	7,978	8,060	8,141	8,225	8,354	8,371	8,340
California	6,071	6,569	5,725	6,062	6,845	7,870	8,270	8,638
Colorado	2,339	3,399	3,317	3,353	3,627	4,236	4,748	4,706
Connecticut	12,204	12,161	10,858	9,905	11,394	12,665	14,134	12,712
Delaware	6,704	6,088	6,109	6,179	6,336	6,105	6,258	6,567
District of Columbia	NA	8,579	9,262	11,907	9,420	11,673	7,904	11,324
Florida	5,732	5,631	5,389	5,138	6,164	6,654	6,926	7,262
Georgia	6,870	7,336	6,770	7,218	7,841	8,242	8,615	9,031
Hawaii	13,418	12,293	12,750	12,777	13,089	14,509	15,692	18,093
Idaho	7,118	6,432	5,637	6,207	6,650	7,412	7,933	8,644
Illinois	8,539	8,492	9,278	10,878	11,188	11,734	9,222	13,244
Indiana	5,838	5,695	5,979	6,237	6,836	6,827	7,385	7,487
Iowa	5,584	5,344	5,227	5,697	6,068	6,379	6,327	6,148
Kansas	5,410	5,248	5,190	5,596	5,497	5,782	5,578	5,634
Kentucky	7,279	7,106	7,189	7,069	7,138	7,166	7,324	7,322
Louisiana	7,210	6,964	6,727	6,632	6,596	6,665	6,905	6,673
Maine	6,815	6,859	7,009	7,029	7,339	7,552	8,103	8,622
Maryland	6,675	6,452	6,386	6,543	7,128	7,430	7,638	8,230
Massachusetts	5,647	6,484	6,805	7,051	7,552	8,357	8,611	9,056

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Michigan	4,137	4,196	3,656	3,907	4,163	4,566	4,793	4,948
Minnesota	6,291	6,214	5,718	5,826	6,532	6,971	7,601	7,780
Mississippi	7,889	6,690	6,889	6,969	7,428	7,754	8,027	7,724
Missouri	4,875	4,690	4,589	4,559	4,677	5,396	5,244	5,043
Montana	4,408	4,208	4,948	5,033	5,748	6,221	6,568	6,628
Nebraska	7,668	7,707	7,716	8,059	8,566	9,075	9,717	9,744
Nevada	5,763	7,954	7,253	7,166	7,530	7,281	7,811	8,262
New Hampshire	3,511	3,497	2,115	2,183	2,947	3,207	3,382	3,281
New Jersey	7,110	7,074	6,816	6,445	6,831	6,917	7,229	7,318
New Mexico	8,819	8,933	8,153	8,150	8,604	9,307	9,680	9,519
New York	8,001	7,897	7,704	8,271	8,733	9,119	9,454	9,880
North Carolina	7,986	7,983	8,089	8,538	8,371	8,702	9,205	9,409
North Dakota	8,232	8,160	9,113	9,189	11,037	11,064	11,046	11,581
Ohio	4,304	4,184	4,573	4,912	5,046	5,210	5,522	5,695
Oklahoma	7,813	7,138	7,043	7,173	7,168	7,656	6,788	6,376
Oregon	3,988	3,709	3,404	3,582	4,034	4,467	5,348	5,677
Pennsylvania	4,389	4,360	3,797	3,811	3,917	4,059	4,084	4,267
Rhode Island	4,747	4,768	4,879	4,912	5,080	5,297	5,770	6,104
South Carolina	4,799	4,144	4,371	4,533	4,607	4,938	5,349	5,838
South Dakota	5,771	5,541	5,377	5,935	6,151	6,377	6,449	7,563
Tennessee	7,418	7,829	6,592	6,974	7,876	8,066	8,372	8,850
Texas	7,330	6,556	6,304	6,149	6,784	6,690	7,193	7,268
Utah	5,771	5,546	5,732	6,019	6,642	7,345	7,613	7,186
Vermont	3,759	3,666	3,603	3,692	3,915	3,921	3,952	3,948
Virginia	5,263	5,051	4,734	5,053	5,305	5,465	5,697	6,414
Washington	6,013	5,945	5,218	5,530	6,277	6,354	7,186	7,677

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
West Virginia	6,086	6,033	6,662	6,895	6,651	6,873	6,719	6,792
Wisconsin	5,112	5,376	4,598	4,912	4,809	7,123	6,580	6,742
Wyoming	12,032	13,020	12,870	14,899	14,074	15,639	17,559	16,361
Puerto Rico	NA	15,399	15,478	16,344	16,857	16,316	16,221	NA

NA not available

Note(s):
The national value for the United States for support for public higher education includes Puerto Rico; FTE enrollment includes only enrollment at public higher education institutions and equates student credit hours to full-time, academic-year students but excludes medical students. The national value for the United States includes Puerto Rico.

Source(s):
State Higher Education Executive Officers Association, State Higher Education Finance (various years), data as of March 2018.

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Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

State support for higher education

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	55,822,774	59,873,568	61,618,052	61,136,796	59,913,974	62,604,993	67,144,716	72,311,065	77,721,833	74,274,410
Alabama	1,086,326	1,076,333	1,104,594	1,150,862	1,162,442	1,200,785	1,384,213	1,654,006	1,922,991	1,552,341
Alaska	174,974	190,650	201,346	211,136	215,636	232,073	251,175	286,003	298,615	318,807
Arizona	865,598	895,267	934,252	912,012	919,000	984,186	1,070,039	1,187,780	1,319,385	1,147,790
Arkansas	606,628	592,976	604,565	608,356	652,754	648,007	744,590	787,547	871,502	878,175
California	7,892,428	8,843,537	9,353,663	9,229,429	8,462,800	8,886,919	9,831,353	10,731,273	11,349,105	9,475,052
Colorado	675,693	706,088	720,951	592,876	569,793	589,285	635,454	678,888	737,885	672,925
Connecticut	675,481	684,571	732,340	736,497	730,867	770,710	813,871	904,945	1,006,997	1,018,618
Delaware	174,400	184,700	185,400	180,969	190,569	202,126	215,296	231,156	240,006	242,256
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	2,594,216	2,957,930	2,900,778	3,072,477	3,069,614	3,460,996	3,660,408	4,183,690	4,242,611	3,903,376
Georgia	1,878,990	2,240,838	2,252,290	2,255,442	2,286,876	2,401,023	2,577,257	2,712,115	2,894,395	2,811,395
Hawaii	341,986	339,025	348,267	368,724	397,912	408,803	460,247	502,703	553,141	603,724
Idaho	293,850	323,424	361,903	335,546	338,297	349,532	361,694	373,906	409,005	415,075
Illinois	2,329,150	2,456,747	2,596,455	2,443,279	2,418,805	2,430,625	2,386,552	2,559,917	2,827,988	2,960,908
Indiana	1,178,919	1,230,830	1,141,717	1,251,293	1,294,916	1,349,364	1,356,464	1,379,800	1,441,411	1,506,644
Iowa	774,428	800,213	737,801	722,751	691,502	695,065	729,727	751,826	818,630	858,097
Kansas	643,637	676,662	705,270	672,391	679,154	719,745	765,634	780,207	814,881	795,221
Kentucky	917,451	993,133	1,075,914	1,055,427	1,063,132	1,003,279	1,127,598	1,163,644	1,232,061	1,192,956
Louisiana	975,077	995,021	1,126,181	1,181,488	1,230,325	1,273,029	1,275,793	1,445,097	1,692,722	1,690,818
Maine	206,027	222,133	232,263	229,726	227,249	237,055	239,708	252,212	266,898	259,441
Maryland	999,703	1,233,033	1,251,216	1,156,972	1,097,310	1,137,582	1,207,603	1,378,361	1,478,284	1,544,216
Massachusetts	1,009,800	1,106,112	1,014,459	983,609	874,445	996,836	1,104,272	1,211,149	1,299,665	1,140,002
Michigan	1,988,300	2,124,200	2,158,600	2,051,202	1,889,029	1,861,052	1,921,352	1,946,768	1,952,524	1,965,266

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	1,288,500	1,315,100	1,397,800	1,255,455	1,227,802	1,215,367	1,309,404	1,335,975	1,497,406	1,463,966
Mississippi	840,943	786,026	728,229	731,014	761,523	754,475	766,885	874,413	1,042,333	974,143
Missouri	941,992	987,983	858,714	871,743	886,183	905,406	907,466	959,909	980,099	1,056,105
Montana	138,133	141,722	149,838	146,034	150,576	152,582	172,767	171,369	196,548	207,471
Nebraska	467,500	489,500	512,800	527,220	504,719	513,608	560,521	600,010	631,950	648,441
Nevada	306,478	316,590	347,166	356,853	479,848	502,024	555,541	593,776	620,033	623,227
New Hampshire	100,700	107,600	102,544	105,722	111,346	114,422	116,023	122,452	131,813	137,200
New Jersey	1,440,234	1,577,088	1,672,183	1,631,847	1,651,270	1,795,989	1,936,332	1,876,836	1,944,787	1,881,972
New Mexico	517,078	470,992	512,487	646,735	702,699	754,357	828,318	944,389	1,005,140	942,860
New York	2,685,564	2,950,183	3,067,822	3,202,760	2,990,894	3,319,641	3,687,118	4,136,152	4,445,759	4,568,600
North Carolina	2,177,778	2,291,936	2,321,615	2,370,417	2,392,112	2,574,532	2,846,505	3,233,376	3,588,796	3,324,733
North Dakota	184,256	185,532	201,168	203,454	200,141	201,215	214,634	215,412	253,451	253,437
Ohio	2,054,084	2,171,388	2,075,042	1,968,109	1,974,746	2,001,257	2,045,063	2,070,822	2,154,299	2,331,111
Oklahoma	793,686	834,836	821,431	834,695	761,446	782,215	883,730	1,025,384	1,089,388	1,066,772
Oregon	508,427	654,651	635,270	632,474	585,530	582,408	617,720	636,284	720,657	681,515
Pennsylvania	1,683,587	1,781,073	1,785,581	1,772,844	1,718,322	1,788,417	1,823,642	1,922,791	1,962,241	1,920,086
Rhode Island	152,100	165,944	177,473	172,546	177,104	180,417	185,473	189,392	183,391	159,439
South Carolina	783,135	818,753	769,216	986,409	859,937	898,816	971,222	1,040,381	1,119,892	887,477
South Dakota	118,100	122,200	129,200	149,666	153,593	162,644	165,351	178,444	198,402	188,725
Tennessee	974,328	1,039,396	1,063,314	1,085,737	1,073,505	1,312,801	1,327,610	1,447,788	1,570,983	1,506,975
Texas	4,540,312	4,630,145	5,198,766	4,883,814	5,097,099	5,017,400	5,570,405	5,600,507	6,241,878	6,001,369
Utah	522,374	553,828	593,431	610,672	611,111	643,501	686,821	714,935	808,260	744,901
Vermont	53,877	57,625	61,407	64,907	66,508	68,113	71,593	75,614	78,740	76,131
Virginia	1,410,171	1,557,416	1,606,220	1,367,766	1,286,057	1,416,858	1,528,045	1,777,974	1,798,867	1,814,430
Washington	1,218,500	1,295,063	1,326,976	1,350,911	1,332,281	1,379,636	1,504,220	1,596,527	1,729,742	1,768,265
West Virginia	385,026	405,583	432,871	429,256	400,503	422,096	413,897	451,627	557,200	508,290

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	1,067,000	1,141,661	1,165,835	1,182,207	1,094,073	1,089,082	1,076,865	1,138,605	1,208,566	1,256,338
Wyoming	185,851	150,333	163,430	193,065	200,616	217,638	251,244	276,930	290,508	327,329
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

State support for higher education

State	2010	2011	2012	2013	2014	2015	2016	2017
United States	71,203,290	73,616,080	70,028,680	71,198,269	75,505,615	79,375,072	81,394,531	83,928,736
Alabama	1,398,028	1,398,767	1,466,422	1,379,445	1,417,608	1,436,124	1,455,427	1,524,934
Alaska	333,415	348,114	359,873	372,574	387,432	384,935	360,898	335,657
Arizona	1,083,950	1,083,907	820,386	839,145	876,368	915,836	799,989	837,432
Arkansas	930,988	990,005	1,002,878	996,734	983,806	977,017	969,097	958,844
California	9,786,547	10,422,481	8,823,590	9,105,513	10,488,233	12,042,595	12,882,519	13,529,591
Colorado	437,985	664,827	638,626	631,694	670,485	770,395	855,810	857,530
Connecticut	1,037,773	1,049,232	930,334	869,740	1,010,431	1,106,931	1,211,391	1,149,228
Delaware	225,050	210,946	211,828	214,504	225,935	224,300	228,260	233,499
District of Columbia	NA	31,390	37,362	46,974	36,691	43,458	31,942	36,680
Florida	3,480,957	3,583,159	3,456,853	3,181,324	3,749,161	4,000,483	4,146,151	4,337,245
Georgia	2,546,799	2,829,041	2,565,814	2,562,407	2,726,442	2,838,097	2,977,800	3,138,141
Hawaii	534,804	500,837	521,270	525,041	529,250	572,297	602,785	666,315
Idaho	350,571	342,190	332,453	358,986	373,585	400,978	418,443	459,125
Illinois	3,346,639	3,340,197	3,568,337	4,061,936	4,055,753	4,129,340	3,147,287	4,364,779
Indiana	1,498,122	1,499,754	1,476,937	1,484,383	1,588,282	1,567,098	1,657,921	1,663,080
Iowa	709,912	709,388	692,228	738,780	773,119	796,652	798,279	778,087
Kansas	743,238	744,072	741,966	784,521	760,339	792,373	755,090	758,925
Kentucky	1,122,820	1,135,518	1,145,306	1,099,825	1,104,771	1,091,571	1,093,518	1,077,527
Louisiana	1,290,027	1,278,758	1,221,590	1,157,599	1,108,143	1,101,848	1,159,383	1,068,070
Maine	255,670	262,599	265,606	262,486	268,429	268,906	280,367	295,937
Maryland	1,543,277	1,540,414	1,551,476	1,562,586	1,660,438	1,732,663	1,788,278	1,916,930
Massachusetts	933,114	1,093,680	1,158,389	1,212,673	1,303,222	1,426,564	1,456,951	1,500,887
Michigan	1,797,444	1,827,794	1,549,565	1,608,657	1,668,849	1,781,473	1,822,299	1,872,829

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Minnesota	1,352,634	1,331,929	1,227,455	1,225,408	1,329,466	1,382,469	1,468,481	1,477,815
Mississippi	1,002,060	929,028	949,875	920,702	968,888	1,003,931	1,033,364	1,008,895
Missouri	934,047	928,050	901,052	896,506	920,570	1,008,735	1,010,987	984,574
Montana	171,514	172,375	202,105	202,188	226,961	240,959	249,277	252,367
Nebraska	638,050	650,373	647,030	654,207	682,767	712,093	742,763	749,296
Nevada	396,485	550,169	473,148	472,368	485,641	487,294	538,609	570,958
New Hampshire	137,521	136,521	82,698	85,622	109,000	123,155	123,921	125,200
New Jersey	1,906,027	1,960,435	1,900,812	1,779,147	1,874,118	1,867,900	1,939,445	1,948,118
New Mexico	870,552	822,542	796,688	825,132	848,583	894,515	903,894	847,386
New York	4,579,528	4,571,108	4,446,012	4,728,407	4,940,439	5,163,264	5,257,364	5,427,120
North Carolina	3,361,960	3,398,946	3,335,412	3,505,790	3,366,855	3,411,140	3,574,335	3,665,728
North Dakota	310,486	309,371	341,760	341,124	406,864	407,157	402,613	416,601
Ohio	1,926,193	1,927,585	1,936,782	1,968,622	2,027,847	2,051,815	2,147,008	2,225,679
Oklahoma	1,109,610	1,071,990	1,031,876	1,033,910	1,042,252	1,043,570	916,110	852,383
Oregon	638,221	624,545	561,925	576,528	626,949	666,048	770,868	809,893
Pennsylvania	1,629,392	1,634,995	1,401,117	1,388,969	1,405,548	1,441,137	1,431,842	1,488,557
Rhode Island	152,245	151,268	154,800	155,708	160,066	167,107	177,477	184,628
South Carolina	828,283	721,198	766,007	816,164	814,181	873,069	926,786	988,836
South Dakota	186,535	184,593	180,334	195,533	207,047	216,424	217,176	237,395
Tennessee	1,411,623	1,576,668	1,329,799	1,367,576	1,500,245	1,494,714	1,553,429	1,641,850
Texas	6,329,067	6,186,389	6,389,838	6,266,805	6,858,605	6,759,272	7,339,190	7,518,278
Utah	683,557	693,655	725,643	745,446	795,036	883,980	929,316	973,948
Vermont	81,874	82,661	78,518	78,494	81,831	80,920	80,812	82,049
Virginia	1,645,188	1,626,192	1,540,866	1,619,495	1,687,889	1,716,448	1,768,224	1,958,217
Washington	1,532,472	1,554,550	1,324,916	1,372,931	1,538,017	1,539,186	1,730,396	1,838,467
West Virginia	479,560	489,401	534,224	540,957	506,813	500,088	477,219	475,032

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Wisconsin	1,213,611	1,293,559	1,072,707	1,127,020	1,076,168	1,563,322	1,433,406	1,436,977
Wyoming	307,864	343,635	336,854	382,436	351,662	375,978	418,115	381,219
Puerto Rico	NA	805,281	819,341	867,546	898,538	897,450	932,218	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

FTE enrolled students

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	8,582,835	8,646,260	9,015,473	9,481,222	9,680,875	9,866,277	9,814,728	9,937,076	10,211,789	10,684,826
Alabama	166,806	165,833	173,687	180,654	183,167	180,517	180,985	182,504	187,086	199,153
Alaska	15,968	16,079	16,706	17,974	18,802	18,720	18,785	18,656	18,703	19,010
Arizona	180,669	185,330	192,181	205,553	212,980	218,212	227,283	229,558	233,255	245,680
Arkansas	86,263	87,337	92,722	92,508	96,292	99,231	101,344	103,369	105,247	108,474
California	1,433,493	1,277,325	1,309,404	1,413,927	1,401,271	1,433,492	1,373,351	1,434,993	1,507,467	1,624,753
Colorado	141,727	141,492	147,724	156,258	161,181	162,711	158,876	157,382	164,638	171,564
Connecticut	58,885	60,976	64,183	68,062	70,030	72,278	73,608	74,951	77,088	80,433
Delaware	28,960	28,944	26,775	31,028	29,546	30,541	31,269	31,269	31,619	32,417
District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Florida	404,417	420,957	442,010	476,654	499,972	504,657	507,927	518,086	540,784	564,963
Georgia	172,909	234,998	259,566	283,391	289,382	295,356	292,655	297,755	310,759	330,866
Hawaii	32,484	31,810	33,063	34,420	35,441	35,733	35,337	35,010	35,469	37,070
Idaho	38,853	39,495	41,593	43,104	45,184	45,024	44,504	43,378	43,968	44,705
Illinois	324,174	323,876	335,188	348,182	356,961	356,798	356,491	357,931	358,679	368,019
Indiana	187,225	188,120	198,460	208,419	213,357	214,901	215,349	217,921	222,837	232,187
Iowa	103,390	105,545	110,834	115,060	117,664	117,737	112,341	112,934	115,011	117,254
Kansas	99,430	100,476	104,341	109,045	110,243	111,948	127,645	127,245	127,117	129,377
Kentucky	113,568	119,500	131,313	141,005	140,056	140,579	140,769	140,621	142,382	144,641
Louisiana	170,175	168,121	172,092	177,275	183,276	183,409	166,536	166,671	165,781	169,602
Maine	28,910	29,287	30,560	32,736	34,516	35,167	35,235	35,514	35,533	35,968
Maryland	167,438	175,085	174,136	168,261	165,502	196,626	192,614	197,966	207,255	231,079
Massachusetts	118,949	119,717	123,602	137,045	137,279	137,677	139,874	143,565	148,288	155,387
Michigan	327,342	333,584	350,261	352,290	368,600	371,950	378,034	384,455	395,019	409,270

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	161,383	167,238	176,545	185,452	189,848	190,087	189,009	191,456	196,014	200,732
Mississippi	100,634	102,490	107,110	111,650	115,613	118,060	117,731	115,739	117,532	118,572
Missouri	154,631	156,588	163,408	166,014	167,742	158,958	160,918	163,354	164,160	177,751
Montana	33,578	33,660	34,333	34,975	35,785	35,259	35,429	35,293	35,556	36,388
Nebraska	64,860	65,725	67,683	68,672	71,310	71,932	72,622	73,940	75,451	77,825
Nevada	46,809	48,107	49,953	54,037	57,219	59,746	60,948	61,323	63,324	65,665
New Hampshire	28,862	26,506	27,455	28,068	30,495	30,885	31,720	32,092	32,982	34,311
New Jersey	171,563	178,671	188,839	194,846	201,756	226,969	228,080	229,968	238,040	246,215
New Mexico	67,277	66,847	68,579	75,847	79,634	79,219	79,645	83,224	85,203	89,450
New York	422,431	451,855	466,866	483,616	489,692	497,971	500,182	508,909	526,538	547,845
North Carolina	259,308	268,589	288,997	302,159	315,159	339,034	338,644	344,056	357,601	385,792
North Dakota	30,259	31,922	33,249	34,667	35,322	34,629	34,302	33,905	34,955	36,408
Ohio	332,947	337,379	353,571	352,538	360,835	381,073	363,598	366,629	375,932	391,546
Oklahoma	119,115	121,111	128,530	128,005	133,393	136,424	134,940	132,093	131,191	127,058
Oregon	105,870	111,006	120,210	125,808	126,970	127,059	126,443	125,113	129,626	141,532
Pennsylvania	280,594	288,334	293,742	315,591	322,665	326,675	327,235	337,425	343,043	353,494
Rhode Island	25,402	25,622	26,677	26,887	27,815	28,117	28,092	28,926	30,120	30,774
South Carolina	128,067	133,120	137,007	137,983	143,800	143,273	145,141	146,624	150,333	158,252
South Dakota	22,056	22,064	22,573	28,232	28,154	28,523	29,254	29,231	29,595	31,027
Tennessee	160,751	159,838	160,822	167,634	169,613	170,084	169,042	171,845	173,706	178,100
Texas	654,039	667,534	704,310	766,342	799,142	812,696	820,788	794,211	804,918	822,131
Utah	87,640	91,953	98,654	108,386	108,636	107,703	104,350	102,372	103,320	107,649
Vermont	15,571	15,914	16,379	16,843	17,429	18,059	18,868	19,381	19,875	20,654
Virginia	233,263	236,014	246,637	254,694	257,534	260,813	265,615	273,039	281,940	294,436
Washington	198,984	204,663	213,147	220,677	220,041	213,801	213,055	214,847	221,264	236,742
West Virginia	62,959	62,902	64,799	67,374	69,466	70,786	71,717	72,679	73,525	74,864

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	191,528	196,523	204,123	209,599	212,880	212,752	214,065	215,098	219,006	224,113
Wyoming	20,419	20,198	20,874	21,774	22,225	22,426	22,483	22,569	23,054	23,628
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

FTE enrolled students

State	2010	2011	2012	2013	2014	2015	2016	2017
United States	11,331,362	11,677,987	11,590,826	11,365,685	11,244,992	11,113,639	11,075,290	11,006,352
Alabama	210,067	212,758	206,364	197,110	194,439	193,411	195,536	199,786
Alaska	20,271	21,070	21,654	21,131	20,464	19,904	19,229	18,456
Arizona	259,953	275,071	275,238	270,644	270,127	274,454	279,239	286,335
Arkansas	118,884	124,085	124,426	122,431	119,608	116,949	115,767	114,976
California	1,612,044	1,586,699	1,541,159	1,501,945	1,532,319	1,530,131	1,557,752	1,566,376
Colorado	187,231	195,621	192,541	188,405	184,836	181,867	180,264	182,212
Connecticut	85,033	86,281	85,683	87,810	88,681	87,403	85,705	90,404
Delaware	33,570	34,648	34,672	34,715	35,657	36,742	36,472	35,554
District of Columbia	NA	3,659	4,034	3,945	3,895	3,723	4,041	3,239
Florida	607,246	636,320	641,446	619,179	608,226	601,198	598,660	597,293
Georgia	370,732	385,615	379,004	354,989	347,733	344,325	345,645	347,479
Hawaii	39,857	40,743	40,883	41,094	40,436	39,444	38,414	36,827
Idaho	49,251	53,201	58,980	57,837	56,177	54,102	52,744	53,116
Illinois	391,926	393,313	384,615	373,403	362,508	351,917	341,273	329,561
Indiana	256,596	263,326	247,019	238,011	232,357	229,534	224,508	222,135
Iowa	127,128	132,744	132,423	129,669	127,407	124,883	126,165	126,555
Kansas	137,374	141,789	142,967	140,182	138,310	137,036	135,366	134,716
Kentucky	154,247	159,806	159,306	155,586	154,782	152,317	149,314	147,167
Louisiana	178,931	183,633	181,589	174,552	168,001	165,329	167,896	160,057
Maine	37,517	38,284	37,897	37,342	36,577	35,608	34,602	34,325
Maryland	231,189	238,742	242,955	238,814	232,935	233,208	234,124	232,908
Massachusetts	165,244	168,671	170,221	171,974	172,574	170,703	169,189	165,736
Michigan	434,490	435,592	423,785	411,770	400,859	390,174	380,221	378,495

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Minnesota	215,009	214,342	214,653	210,332	203,523	198,328	193,197	189,951
Mississippi	127,025	138,859	137,888	132,114	130,436	129,481	128,728	130,623
Missouri	191,608	197,890	196,360	196,659	196,831	186,936	192,781	195,255
Montana	38,909	40,961	40,847	40,169	39,484	38,732	37,954	38,076
Nebraska	83,206	84,384	83,861	81,175	79,704	78,469	76,442	76,899
Nevada	68,799	69,169	65,238	65,917	64,497	66,924	68,959	69,104
New Hampshire	39,171	39,036	39,099	39,224	36,988	38,398	36,640	38,156
New Jersey	268,066	277,147	278,868	276,052	274,341	270,053	268,296	266,194
New Mexico	98,709	92,078	97,719	101,239	98,630	96,110	93,379	89,020
New York	572,355	578,830	577,136	571,693	565,719	566,235	556,098	549,295
North Carolina	420,956	425,779	412,349	410,622	402,199	391,990	388,322	389,604
North Dakota	37,716	37,915	37,503	37,122	36,863	36,801	36,450	35,974
Ohio	447,494	460,747	423,509	400,796	401,856	393,845	388,777	390,840
Oklahoma	142,024	150,171	146,518	144,138	145,401	136,311	134,960	133,682
Oregon	160,037	168,374	165,094	160,939	155,418	149,100	144,148	142,669
Pennsylvania	371,286	374,997	369,046	364,468	358,820	355,062	350,598	348,838
Rhode Island	32,071	31,724	31,729	31,699	31,506	31,547	30,757	30,246
South Carolina	172,579	174,030	175,236	180,038	176,746	176,789	173,263	169,383
South Dakota	32,324	33,313	33,540	32,945	33,659	33,938	33,675	31,387
Tennessee	190,286	201,378	201,735	196,097	190,485	185,316	185,543	185,513
Texas	863,475	943,694	1,013,647	1,019,173	1,010,936	1,010,334	1,020,366	1,034,453
Utah	118,446	125,073	126,594	123,851	119,692	120,352	122,066	135,531
Vermont	21,778	22,548	21,791	21,259	20,903	20,639	20,447	20,782
Virginia	312,598	321,965	325,517	320,481	318,166	314,066	310,368	305,307
Washington	254,867	261,485	253,902	248,273	245,011	242,221	240,788	239,481
West Virginia	78,798	81,116	80,193	78,458	76,202	72,765	71,026	69,939

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Wisconsin	237,403	240,625	233,284	229,463	223,777	219,490	217,856	213,143
Wyoming	25,587	26,392	26,174	25,669	24,986	24,041	23,812	23,300
Puerto Rico	NA	52,295	52,936	53,082	53,305	55,005	57,469	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

S-29 Postsecondary Degree Holders among Individuals 25–44 Years Old

Description

This indicator represents the percentage of the early- to mid-career population that has earned a postsecondary degree. Postsecondary degree holders include those with an associate's, bachelor's, master's, or doctoral degree, granted from either a public or private institution. The indicator represents where postsecondary degree holders live rather than where they were educated. The age cohort of 25–44 years represents the group most likely to have completed a postsecondary program.

Estimates of educational attainment have been developed by the U.S. Census Bureau. Data are derived from the American Community Survey (ACS), the largest household survey in the United States, with a sample size of about 3.5 million addresses. The ACS collects information on an annual basis.

Estimates of the population age 25–44 years are provided by the Census Bureau based on the 2000 and 2010 Decennial Censuses and are reported by the state of residence. Each year, the Census Bureau utilizes current data on births, deaths, and migration to calculate population change since the most recent decennial census and produces time series of estimates of population. Because these values are estimates, small differences in the value of this indicator between states and across time generally are not meaningful. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

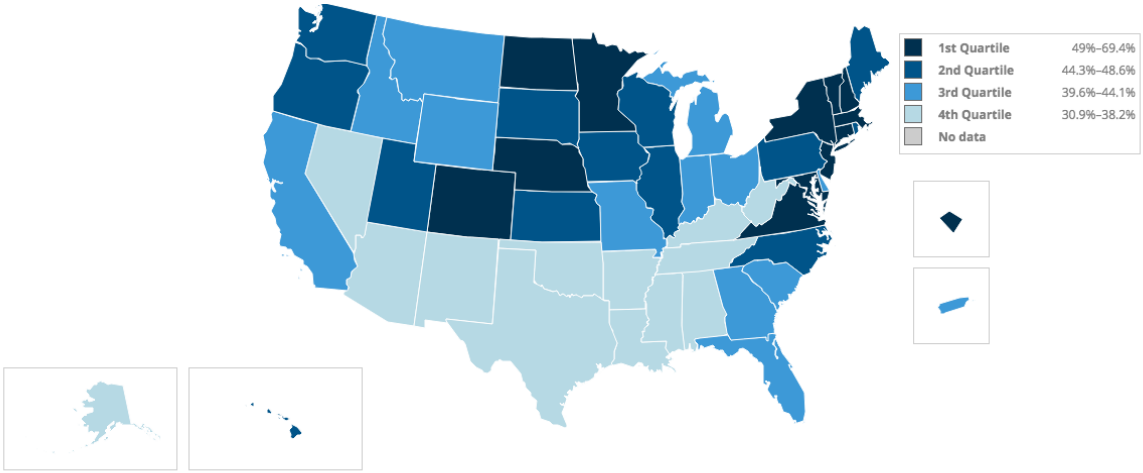
Nationwide, the portion of this age cohort with a postsecondary degree has increased over time though continues to vary substantially across states.

Data sources: U.S. Census Bureau, special tabulations of the American Community Survey; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program.

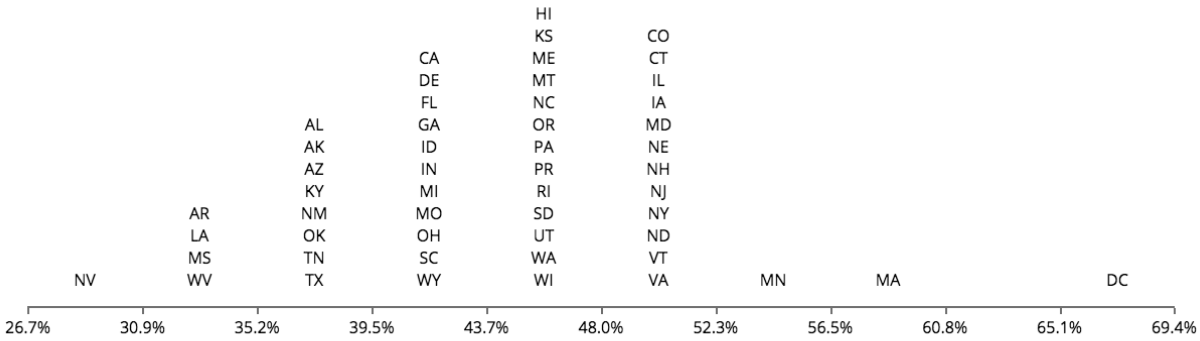
State Indicators

S-29 Postsecondary Degree Holders among Individuals 25–44 Years Old

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

Postsecondary Degree Holders among Individuals 25–44 Years Old

(Percent)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	38.0	38.3	38.7	39.0	39.6	39.7	40.3	41.3	41.9	42.6
Alabama	31.7	31.0	31.5	32.4	32.9	32.2	33.5	34.9	34.3	35.1
Alaska	31.1	33.6	34.8	34.6	32.1	36.5	34.4	36.7	36.1	35.1
Arizona	34.1	35.2	34.7	34.5	36.1	34.0	35.3	36.9	36.5	36.7
Arkansas	27.3	27.1	27.7	27.5	29.1	29.4	30.3	31.2	30.8	32.1
California	36.7	37.3	37.6	37.6	38.4	38.4	38.7	40.0	40.1	41.2
Colorado	46.4	44.7	45.7	45.9	46.2	46.0	47.4	47.5	48.1	49.2
Connecticut	45.1	45.0	46.4	47.2	46.7	46.8	47.5	48.6	48.9	49.7
Delaware	37.8	39.7	37.2	37.2	40.5	38.2	39.4	39.9	42.0	42.4
District of Columbia	55.6	59.0	59.8	59.9	61.0	63.9	65.7	65.5	68.7	70.0
Florida	35.6	36.8	37.2	36.7	37.3	36.8	37.9	39.0	39.6	39.9
Georgia	37.7	36.4	37.0	37.5	37.8	36.9	37.8	38.3	38.8	38.9
Hawaii	36.6	41.8	42.1	41.1	43.7	40.4	41.3	42.5	45.6	44.1
Idaho	32.5	34.8	36.5	35.1	33.9	34.7	36.0	36.7	37.1	36.2
Illinois	42.6	42.4	42.9	43.7	44.2	43.8	44.9	45.6	46.1	47.2
Indiana	32.9	34.2	34.7	36.1	36.0	35.5	36.9	37.7	37.2	39.2
Iowa	42.2	42.0	43.3	43.7	44.5	44.4	45.7	47.6	46.7	48.5
Kansas	40.5	40.5	41.2	42.4	41.3	42.8	42.4	43.5	44.3	45.1
Kentucky	30.3	31.6	31.0	32.1	33.6	32.6	33.2	34.4	36.5	36.0
Louisiana	27.5	27.5	26.9	27.9	30.3	30.3	30.3	31.8	31.9	33.3
Maine	35.8	37.6	39.7	36.6	38.4	39.1	41.0	38.7	41.5	43.2
Maryland	43.1	45.5	44.3	44.7	45.8	45.5	46.8	47.6	47.2	49.3
Massachusetts	51.0	51.6	52.5	52.3	53.9	53.6	53.5	53.9	55.0	55.8

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Michigan	37.4	37.7	38.2	38.4	38.2	38.2	39.0	39.9	41.0	41.9
Minnesota	48.1	47.8	48.2	49.4	49.2	50.2	50.8	52.1	51.9	53.3
Mississippi	29.9	30.1	29.7	30.7	29.6	31.6	31.7	32.5	32.4	35.0
Missouri	35.0	36.2	36.8	37.1	38.1	38.7	39.5	39.9	41.1	41.8
Montana	37.5	39.8	37.2	39.6	40.3	40.6	42.0	41.7	41.9	40.1
Nebraska	43.9	43.3	44.4	43.2	43.8	44.8	44.2	46.4	46.4	47.9
Nevada	26.8	27.9	28.1	28.0	29.2	28.4	28.3	30.0	30.3	31.4
New Hampshire	45.4	46.3	46.7	48.6	46.9	47.0	47.4	48.3	47.4	49.2
New Jersey	44.8	45.6	45.2	46.3	46.6	47.6	47.3	48.7	49.3	49.9
New Mexico	30.4	31.7	31.0	31.7	32.1	30.8	32.0	34.0	34.3	32.2
New York	45.5	45.2	46.0	46.7	48.5	47.5	47.9	48.6	50.1	50.8
North Carolina	37.4	36.6	37.3	37.2	39.0	38.7	39.8	39.7	41.2	42.0
North Dakota	47.1	47.4	47.4	49.1	47.5	49.8	48.6	50.9	50.9	49.1
Ohio	35.7	35.7	37.2	37.8	38.2	38.7	38.7	39.9	40.8	41.8
Oklahoma	31.8	31.0	31.2	31.6	31.1	31.8	33.7	34.1	33.9	34.1
Oregon	36.7	37.9	39.2	38.8	39.3	38.7	39.2	41.3	42.1	42.2
Pennsylvania	39.0	39.8	40.4	40.9	42.2	42.4	42.7	44.1	44.9	45.3
Rhode Island	43.7	43.6	42.6	43.7	45.1	43.6	43.4	44.2	44.0	42.9
South Carolina	33.3	32.5	34.7	34.5	35.6	35.5	35.6	37.4	38.0	37.9
South Dakota	42.6	42.1	41.9	43.0	40.9	43.0	42.8	43.0	45.8	45.8
Tennessee	31.0	31.0	31.2	32.6	34.4	33.8	34.3	35.6	36.6	36.5
Texas	31.8	32.4	32.8	32.9	33.0	33.5	34.6	35.0	35.8	36.7
Utah	40.7	39.7	39.8	40.8	39.5	40.1	40.8	42.1	42.5	42.6
Vermont	43.1	43.7	45.1	45.0	45.7	44.1	48.2	47.2	48.0	46.8
Virginia	42.2	43.3	43.5	43.9	44.3	45.8	47.3	47.6	48.0	49.5
Washington	41.7	43.1	42.9	41.7	42.6	42.7	43.6	43.2	44.3	45.9

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West Virginia	26.7	27.8	28.0	28.0	28.3	28.9	31.5	30.4	32.1	31.7
Wisconsin	39.9	40.5	40.5	41.1	41.0	41.8	42.4	44.1	44.9	45.7
Wyoming	32.5	34.4	36.1	35.8	34.6	37.2	37.8	36.5	41.6	39.1
Puerto Rico	41.3	40.3	41.3	40.6	41.8	39.3	41.1	42.7	43.0	42.5

Note(s):
The national total for degree holders for the United States includes Puerto Rico; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Census Bureau, special tabulations of the American Community Survey (various years), data as of November 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Postsecondary Degree Holders among Individuals 25–44 Years Old

(Percent)

State	2015	2016
United States	43.2	44.0
Alabama	35.6	37.0
Alaska	37.4	37.5
Arizona	36.5	37.6
Arkansas	33.1	32.6
California	42.0	43.0
Colorado	50.2	50.2
Connecticut	50.2	50.6
Delaware	41.8	41.4
District of Columbia	71.0	69.4
Florida	41.2	41.3
Georgia	40.1	41.0
Hawaii	45.2	45.1
Idaho	37.3	40.3
Illinois	47.4	48.6
Indiana	38.9	40.2
Iowa	48.0	48.6
Kansas	45.7	45.4
Kentucky	36.6	37.9
Louisiana	33.6	33.2
Maine	44.4	44.6
Maryland	49.3	49.8
Massachusetts	56.0	57.3

State Indicators

State	2015	2016
Michigan	42.0	42.2
Minnesota	54.2	54.1
Mississippi	34.5	34.4
Missouri	42.3	42.9
Montana	44.3	43.8
Nebraska	47.8	50.0
Nevada	31.5	30.9
New Hampshire	50.1	51.4
New Jersey	50.4	51.5
New Mexico	33.0	35.3
New York	51.1	51.7
North Carolina	42.5	44.3
North Dakota	50.9	52.0
Ohio	42.2	42.6
Oklahoma	34.3	35.5
Oregon	44.5	45.1
Pennsylvania	46.5	47.7
Rhode Island	44.6	47.4
South Carolina	38.9	39.6
South Dakota	45.4	47.6
Tennessee	37.5	38.2
Texas	37.5	38.1
Utah	43.0	45.9
Vermont	46.7	49.0
Virginia	49.3	50.5
Washington	46.5	47.8

State Indicators

State	2015	2016
West Virginia	33.0	34.2
Wisconsin	46.1	47.7
Wyoming	40.5	42.4
Puerto Rico	43.2	44.1

Note(s):
The national total for degree holders for the United States includes Puerto Rico; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Census Bureau, special tabulations of the American Community Survey (various years), data as of November 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Postsecondary degree holders 25–44 years old

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	31,807,550	32,064,675	32,352,390	32,539,935	32,986,370	32,988,290	33,651,995	34,560,330	35,261,915	36,125,020
Alabama	389,490	382,125	388,035	399,335	405,825	395,965	410,755	427,420	421,375	431,340
Alaska	58,630	63,330	65,635	65,550	61,365	72,190	68,880	74,730	74,595	72,900
Arizona	552,805	586,050	583,945	583,185	608,775	572,255	595,765	627,360	624,995	635,560
Arkansas	202,620	202,595	207,170	204,995	216,125	218,465	225,880	232,995	230,695	240,710
California	3,892,100	3,942,405	3,958,150	3,948,560	4,024,500	4,037,405	4,095,175	4,262,365	4,306,965	4,471,475
Colorado	636,435	616,560	635,205	645,080	654,275	657,580	686,255	697,090	717,655	745,360
Connecticut	432,450	425,025	431,260	435,570	426,215	422,805	426,065	433,320	434,330	436,520
Delaware	87,995	92,375	86,105	85,620	92,530	86,800	89,770	91,120	96,925	99,350
District of Columbia	103,235	110,820	113,685	115,555	121,520	133,055	143,690	149,760	162,935	169,700
Florida	1,694,515	1,766,285	1,781,350	1,747,360	1,761,940	1,741,400	1,807,575	1,880,035	1,930,475	1,976,280
Georgia	1,013,470	993,730	1,016,235	1,034,795	1,039,425	1,008,475	1,032,855	1,047,655	1,062,965	1,070,965
Hawaii	129,860	149,840	149,665	147,325	157,300	146,455	151,200	157,685	171,975	167,600
Idaho	121,720	133,520	142,790	139,110	135,620	138,980	145,300	148,840	151,830	150,120
Illinois	1,530,725	1,515,470	1,522,300	1,545,385	1,553,735	1,534,125	1,567,170	1,587,155	1,599,280	1,632,740
Indiana	562,485	582,550	590,085	610,565	603,095	592,540	614,145	625,770	619,760	654,955
Iowa	317,770	314,360	324,135	326,265	331,840	332,185	342,655	356,540	350,930	365,865
Kansas	289,850	288,710	294,750	303,960	297,295	310,565	308,235	317,200	323,335	329,295
Kentucky	353,170	367,005	359,920	370,170	385,495	372,625	377,645	389,375	412,725	405,280
Louisiana	340,335	316,725	312,255	325,800	358,275	362,815	365,790	386,345	390,470	411,515
Maine	123,130	127,000	131,940	119,635	122,980	123,045	127,825	119,810	128,175	133,425
Maryland	693,315	727,195	701,070	700,895	713,320	708,995	732,630	751,110	749,030	783,855
Massachusetts	932,195	925,920	929,040	918,140	939,445	928,540	929,155	941,345	967,135	986,130
Michigan	1,013,030	1,001,040	992,470	973,875	946,695	928,480	940,460	954,895	979,675	1,002,040

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	684,725	674,895	680,415	694,565	688,730	700,450	710,690	730,915	732,855	754,460
Mississippi	231,760	230,625	227,815	235,630	226,355	240,920	241,695	247,660	246,140	266,460
Missouri	543,130	560,545	567,000	568,535	582,135	590,440	602,935	608,270	628,670	639,910
Montana	85,590	90,990	86,170	92,425	94,470	95,825	99,690	99,740	101,560	98,170
Nebraska	202,180	198,390	203,440	198,335	202,445	209,090	207,890	219,520	221,195	229,320
Nevada	193,900	208,990	214,805	217,000	226,510	218,725	216,970	231,330	235,130	247,140
New Hampshire	161,160	161,620	159,905	163,290	153,960	151,555	151,035	152,715	148,765	154,070
New Jersey	1,114,215	1,115,870	1,090,780	1,105,925	1,101,800	1,117,025	1,105,760	1,134,330	1,146,425	1,157,900
New Mexico	153,405	160,605	157,905	160,980	164,085	159,590	166,660	177,085	179,025	167,810
New York	2,499,315	2,450,305	2,465,175	2,489,300	2,566,265	2,503,460	2,534,195	2,580,440	2,669,890	2,714,135
North Carolina	933,035	921,080	949,770	955,355	1,004,795	996,875	1,024,595	1,025,230	1,066,775	1,092,175
North Dakota	73,975	74,020	75,165	78,240	77,225	82,980	82,795	89,645	93,740	93,730
Ohio	1,098,910	1,085,140	1,115,945	1,119,535	1,115,605	1,115,560	1,110,325	1,142,375	1,170,805	1,203,875
Oklahoma	296,770	290,730	294,615	299,975	298,455	308,205	329,555	336,480	338,230	343,480
Oregon	361,760	377,060	393,990	392,665	401,130	396,400	404,800	429,610	440,425	446,840
Pennsylvania	1,269,455	1,282,535	1,291,415	1,299,315	1,326,260	1,326,650	1,335,850	1,382,545	1,411,540	1,428,330
Rhode Island	127,600	124,010	118,325	119,225	120,460	114,935	113,495	115,515	115,610	113,425
South Carolina	389,380	383,505	411,755	412,750	425,930	423,545	424,315	448,225	459,195	463,260
South Dakota	82,620	81,430	81,600	83,820	80,520	85,675	85,995	87,590	94,715	95,495
Tennessee	521,415	524,650	529,570	550,850	579,010	566,625	574,930	598,950	618,025	620,620
Texas	2,112,580	2,183,005	2,244,095	2,277,955	2,312,815	2,376,590	2,486,640	2,557,095	2,656,620	2,769,675
Utah	276,705	278,685	289,025	304,685	302,340	313,175	323,280	337,520	345,575	351,410
Vermont	68,445	68,160	69,115	68,015	68,180	65,045	70,425	68,525	69,480	67,225
Virginia	925,210	949,490	951,425	960,410	970,870	1,010,140	1,049,675	1,063,895	1,079,140	1,116,430
Washington	739,975	771,750	772,895	758,280	782,875	787,905	813,490	814,745	844,950	886,830
West Virginia	125,230	130,215	130,375	129,865	130,225	132,410	143,430	137,835	144,415	142,010

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	596,925	599,290	596,700	601,715	595,645	604,645	610,185	630,690	639,250	649,080
Wyoming	42,115	45,235	48,790	49,475	49,575	53,925	55,280	54,455	62,665	59,390
Puerto Rico	424,720	411,190	417,210	405,070	412,250	382,035	390,540	397,470	392,875	379,385

Science and Engineering Indicators 2018

State Indicators

Postsecondary degree holders 25–44 years old

State	2015	2016
United States	36,880,170	37,854,065
Alabama	439,035	456,845
Alaska	78,260	79,705
Arizona	638,360	668,310
Arkansas	249,465	247,065
California	4,603,005	4,768,550
Colorado	778,860	795,675
Connecticut	437,080	438,025
Delaware	98,685	98,150
District of Columbia	175,605	176,080
Florida	2,082,930	2,127,850
Georgia	1,108,300	1,142,060
Hawaii	173,190	173,790
Idaho	156,325	172,205
Illinois	1,630,605	1,664,040
Indiana	649,610	672,670
Iowa	363,495	370,470
Kansas	334,180	332,150
Kentucky	413,045	427,705
Louisiana	418,590	417,100
Maine	136,695	137,245
Maryland	786,590	794,285
Massachusetts	991,840	1,018,360
Michigan	1,006,230	1,016,025

State Indicators

State	2015	2016
Minnesota	767,715	771,605
Mississippi	261,960	261,665
Missouri	649,915	662,855
Montana	109,935	110,650
Nebraska	229,720	241,970
Nevada	252,290	251,905
New Hampshire	156,160	160,850
New Jersey	1,163,330	1,188,725
New Mexico	172,095	184,375
New York	2,731,815	2,767,015
North Carolina	1,107,570	1,163,005
North Dakota	100,985	103,990
Ohio	1,216,655	1,229,770
Oklahoma	348,625	363,820
Oregon	479,695	499,185
Pennsylvania	1,469,340	1,505,490
Rhode Island	118,105	126,120
South Carolina	481,900	497,240
South Dakota	94,825	100,370
Tennessee	641,260	657,500
Texas	2,880,270	2,973,730
Utah	360,630	394,415
Vermont	66,435	69,700
Virginia	1,112,810	1,140,095
Washington	917,070	966,165
West Virginia	146,965	151,175

State Indicators

State	2015	2016
Wisconsin	651,995	674,670
Wyoming	62,180	64,975
Puerto Rico	377,945	376,685
Science and Engineering Indicators 2018		

State Indicators

Individuals 25–44 years old

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	86,021,754	85,565,627	85,027,918	84,432,564	84,099,077	83,791,910	83,658,364	83,519,695	83,398,876	83,197,208
Alabama	1,284,371	1,266,952	1,249,808	1,238,460	1,231,571	1,228,586	1,233,767	1,232,608	1,231,410	1,232,200
Alaska	202,899	198,158	194,428	190,773	189,864	188,753	188,470	188,612	189,673	191,023
Arizona	1,514,406	1,526,458	1,543,384	1,554,533	1,580,090	1,620,018	1,664,223	1,682,760	1,690,369	1,685,082
Arkansas	749,201	743,315	737,150	734,963	736,873	741,013	747,504	747,162	745,354	743,283
California	10,724,282	10,750,718	10,725,588	10,697,022	10,675,493	10,619,001	10,578,738	10,519,395	10,505,976	10,493,897
Colorado	1,404,449	1,412,620	1,406,914	1,387,655	1,381,778	1,372,686	1,380,451	1,391,221	1,404,254	1,415,641
Connecticut	1,031,174	1,017,477	1,006,189	993,386	976,914	959,888	944,217	930,413	923,555	911,836
Delaware	236,255	233,890	232,409	231,993	232,563	232,763	232,516	231,339	230,357	228,638
District of Columbia	188,950	190,251	189,118	187,244	186,503	185,619	187,870	190,131	192,899	199,093
Florida	4,574,160	4,591,807	4,617,681	4,636,916	4,693,728	4,759,595	4,804,621	4,794,919	4,764,109	4,728,842
Georgia	2,656,884	2,668,017	2,668,636	2,662,858	2,674,993	2,685,792	2,727,666	2,747,437	2,758,599	2,750,052
Hawaii	361,421	357,271	354,814	350,487	351,586	355,213	358,311	355,570	358,796	360,092
Idaho	362,462	362,154	362,465	363,761	368,918	374,779	383,267	391,280	396,766	399,670
Illinois	3,787,941	3,756,180	3,720,108	3,675,421	3,634,054	3,595,524	3,572,420	3,552,188	3,537,433	3,517,245
Indiana	1,787,894	1,769,492	1,749,881	1,734,492	1,720,907	1,711,914	1,705,535	1,699,363	1,690,585	1,676,552
Iowa	805,939	793,288	780,285	768,483	759,650	753,008	747,836	747,886	746,335	745,305
Kansas	767,825	755,887	744,899	732,616	724,588	715,568	713,707	714,627	717,210	720,316
Kentucky	1,207,861	1,194,291	1,181,622	1,170,580	1,167,552	1,163,875	1,162,541	1,160,702	1,152,941	1,147,693
Louisiana	1,289,109	1,268,704	1,254,237	1,242,754	1,241,246	1,237,958	1,152,042	1,162,238	1,169,750	1,181,653
Maine	369,562	364,111	359,629	354,995	349,636	343,558	337,692	332,401	326,952	320,549
Maryland	1,663,110	1,652,198	1,643,595	1,632,141	1,620,262	1,610,134	1,598,650	1,580,856	1,569,212	1,558,062
Massachusetts	1,986,325	1,967,815	1,940,811	1,905,515	1,867,029	1,828,665	1,795,786	1,769,742	1,754,618	1,741,440
Michigan	2,952,464	2,905,689	2,851,453	2,801,823	2,754,780	2,708,190	2,658,755	2,601,061	2,537,217	2,476,233

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	1,496,022	1,486,814	1,471,180	1,453,237	1,438,206	1,423,781	1,412,852	1,411,388	1,405,692	1,399,672
Mississippi	805,410	794,888	785,469	777,834	775,580	774,027	767,066	768,082	767,502	764,156
Missouri	1,623,972	1,606,777	1,590,123	1,572,464	1,560,550	1,551,228	1,547,126	1,542,309	1,532,837	1,527,653
Montana	244,578	238,899	234,222	230,567	229,675	228,195	228,548	231,371	233,215	234,399
Nebraska	486,133	478,968	473,420	468,695	464,418	460,291	458,133	458,373	459,084	462,372
Nevada	632,738	648,880	663,253	677,529	701,910	724,049	747,896	765,237	774,847	774,536
New Hampshire	380,967	378,536	373,700	368,330	361,463	355,033	348,846	342,511	335,808	328,416
New Jersey	2,621,571	2,603,347	2,581,946	2,553,301	2,520,242	2,485,042	2,446,589	2,413,538	2,389,516	2,364,261
New Mexico	514,911	506,151	503,680	501,832	502,867	505,077	507,378	509,824	508,578	511,617
New York	5,823,214	5,775,563	5,719,243	5,659,284	5,583,555	5,492,496	5,417,603	5,357,444	5,324,739	5,290,037
North Carolina	2,502,030	2,504,293	2,497,029	2,486,750	2,489,901	2,494,079	2,518,651	2,544,472	2,570,907	2,573,672
North Dakota	174,094	168,631	164,379	160,764	159,374	157,141	156,114	158,461	159,328	162,677
Ohio	3,313,221	3,259,384	3,204,892	3,156,115	3,115,878	3,078,364	3,037,836	3,000,205	2,959,430	2,916,945
Oklahoma	972,426	960,435	951,788	940,700	936,143	933,315	938,630	945,623	949,236	959,376
Oregon	996,147	992,783	991,822	987,749	981,831	985,556	994,743	1,004,706	1,012,559	1,020,615
Pennsylvania	3,495,003	3,435,158	3,381,750	3,336,783	3,294,544	3,257,164	3,224,924	3,197,312	3,173,801	3,146,144
Rhode Island	310,069	306,912	304,816	302,712	299,215	292,094	284,670	277,823	272,611	266,874
South Carolina	1,184,456	1,175,787	1,170,078	1,165,350	1,168,196	1,169,533	1,179,555	1,186,911	1,196,665	1,195,108
South Dakota	205,892	202,454	199,552	196,608	195,250	194,053	193,284	194,894	195,036	196,965
Tennessee	1,715,304	1,699,828	1,685,039	1,675,364	1,675,964	1,679,791	1,690,961	1,697,092	1,691,716	1,684,731
Texas	6,495,058	6,529,822	6,552,685	6,556,417	6,589,095	6,634,314	6,742,164	6,835,875	6,921,332	7,007,959
Utah	627,787	633,099	641,229	650,255	663,806	679,624	701,224	726,571	746,850	765,668
Vermont	175,916	172,405	169,409	165,614	161,932	158,855	155,997	153,309	151,259	149,150
Virginia	2,237,682	2,227,441	2,212,969	2,196,616	2,192,025	2,190,025	2,190,642	2,186,905	2,189,453	2,191,638
Washington	1,814,246	1,805,606	1,792,653	1,774,739	1,771,863	1,774,193	1,791,998	1,803,331	1,819,408	1,835,742
West Virginia	498,535	487,860	481,424	476,738	472,377	469,859	468,119	465,516	463,268	460,260

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	1,578,869	1,561,327	1,544,764	1,526,655	1,510,765	1,495,134	1,479,447	1,471,698	1,462,682	1,452,804
Wyoming	138,145	134,483	132,677	130,128	129,628	129,772	131,399	135,001	138,230	143,309
Puerto Rico	1,048,414	1,042,353	1,037,623	1,034,563	1,032,246	1,027,725	1,019,384	1,010,002	998,917	986,055

Science and Engineering Indicators 2018

State Indicators

Individuals 25–44 years old

State	2010	2011	2012	2013	2014	2015	2016
United States	83,173,237	83,412,874	83,782,248	84,247,929	84,798,348	85,361,982	86,000,713
Alabama	1,228,978	1,225,634	1,226,353	1,228,347	1,230,594	1,232,897	1,233,200
Alaska	197,517	200,002	203,563	206,575	207,927	209,339	212,598
Arizona	1,681,276	1,687,681	1,699,025	1,711,497	1,731,179	1,751,183	1,778,348
Arkansas	743,050	745,216	746,558	748,294	750,170	753,451	757,481
California	10,512,391	10,571,346	10,651,255	10,745,573	10,861,413	10,965,621	11,077,717
Colorado	1,430,149	1,447,895	1,468,606	1,491,649	1,515,469	1,550,077	1,584,485
Connecticut	903,104	896,900	892,103	887,452	878,660	869,920	865,026
Delaware	227,468	227,605	228,424	230,859	234,274	236,303	236,926
District of Columbia	208,090	218,863	228,577	237,033	242,543	247,300	253,880
Florida	4,727,007	4,768,130	4,818,453	4,874,142	4,954,171	5,051,928	5,147,714
Georgia	2,733,258	2,734,267	2,738,442	2,738,272	2,750,340	2,766,800	2,785,270
Hawaii	362,425	365,901	371,302	376,826	379,968	382,886	385,131
Idaho	401,002	403,370	405,336	409,290	414,914	419,606	427,556
Illinois	3,500,538	3,489,539	3,478,308	3,472,623	3,459,204	3,438,036	3,420,788
Indiana	1,667,816	1,664,993	1,661,341	1,666,835	1,669,673	1,670,534	1,674,571
Iowa	748,136	749,752	749,556	751,551	754,578	757,891	761,908
Kansas	725,776	726,506	729,068	729,900	730,187	731,072	731,695
Kentucky	1,142,933	1,138,649	1,133,232	1,129,696	1,127,096	1,127,392	1,128,341
Louisiana	1,197,346	1,206,772	1,215,994	1,225,045	1,235,901	1,247,248	1,255,903
Maine	314,789	312,103	309,981	309,062	308,593	307,640	307,761
Maryland	1,559,855	1,566,931	1,577,528	1,585,566	1,590,862	1,594,602	1,595,834
Massachusetts	1,733,305	1,738,358	1,747,654	1,758,282	1,767,195	1,772,450	1,777,342
Michigan	2,433,532	2,408,814	2,393,961	2,389,454	2,390,497	2,395,882	2,408,971

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	1,396,248	1,399,366	1,403,484	1,410,900	1,415,140	1,417,686	1,425,118
Mississippi	762,824	761,913	761,063	760,674	760,776	760,047	759,788
Missouri	1,525,178	1,524,950	1,524,200	1,527,996	1,532,218	1,536,268	1,543,906
Montana	236,001	237,500	239,253	242,301	245,097	248,256	252,419
Nebraska	467,033	469,996	473,125	476,737	478,319	480,158	483,474
Nevada	769,354	766,879	771,761	776,988	787,617	800,510	815,885
New Hampshire	322,611	318,701	315,897	313,684	313,019	311,584	312,785
New Jersey	2,346,017	2,336,404	2,330,142	2,323,822	2,318,307	2,309,847	2,308,261
New Mexico	517,396	520,123	521,382	521,877	521,329	521,194	522,592
New York	5,271,378	5,288,119	5,307,099	5,327,043	5,341,564	5,348,795	5,353,334
North Carolina	2,575,118	2,576,995	2,580,484	2,590,070	2,600,169	2,608,892	2,625,691
North Dakota	166,628	170,338	176,161	184,213	190,879	198,242	199,967
Ohio	2,886,045	2,872,245	2,862,653	2,869,282	2,877,473	2,881,214	2,887,030
Oklahoma	969,276	977,057	985,949	997,305	1,006,091	1,017,009	1,024,244
Oregon	1,024,895	1,031,782	1,038,993	1,046,561	1,059,123	1,078,951	1,106,741
Pennsylvania	3,126,572	3,126,262	3,133,536	3,143,973	3,153,942	3,158,013	3,158,878
Rhode Island	263,517	261,756	261,483	262,558	264,164	264,933	266,053
South Carolina	1,193,852	1,192,932	1,197,807	1,207,402	1,221,676	1,238,814	1,254,441
South Dakota	199,057	201,065	203,893	206,750	208,320	209,084	210,858
Tennessee	1,677,890	1,677,077	1,683,001	1,688,293	1,698,535	1,708,312	1,723,338
Texas	7,096,850	7,195,358	7,309,268	7,416,119	7,550,968	7,688,925	7,812,015
Utah	781,517	792,675	801,458	812,973	824,718	838,623	859,778
Vermont	147,563	146,261	145,055	144,800	143,497	142,347	142,213
Virginia	2,204,259	2,217,478	2,234,087	2,246,952	2,253,213	2,256,437	2,257,985
Washington	1,846,005	1,865,039	1,884,398	1,905,767	1,933,851	1,970,778	2,022,565
West Virginia	458,010	455,631	453,078	450,295	447,677	445,342	441,833

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	1,445,260	1,437,766	1,429,747	1,424,774	1,420,131	1,414,193	1,414,479
Wyoming	144,921	146,057	149,168	150,663	152,018	153,571	153,282
Puerto Rico	972,221	949,922	930,003	913,334	893,109	873,899	853,314

Science and Engineering Indicators 2018

State Indicators

S-30 Bachelor's Degree Holders among Individuals 25–44 Years Old

Description

This indicator represents the percentage of the early- to mid-career population that has earned at least a 4-year undergraduate degree. The indicator represents where college degree holders live rather than where they were educated. The age cohort of 25–44 years represents a group of individuals who are potential long-term participants in a state's workforce. High values indicate a resident population or potential workforce with widespread credentials at the college or university level.

Estimates of educational attainment have been developed by the U.S. Census Bureau. Data are derived from the American Community Survey (ACS), the largest household survey in the United States, with a sample size of about 3.5 million addresses. The ACS collects information on an annual basis. Bachelor’s degree holders include those with degrees awarded by both public and private institutions and in S&E and non-S&E fields.

Estimates of the population aged 25–44 years are provided by the Census Bureau based on the 2000 and 2010 Decennial Censuses and are reported by the state of residence. Each year, the Census Bureau utilizes current data on births, deaths, and migration to calculate population change since the most recent decennial census and produces time series of estimates of population. Because these values are estimates, small differences in the value of this indicator between states and across time generally are not meaningful. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

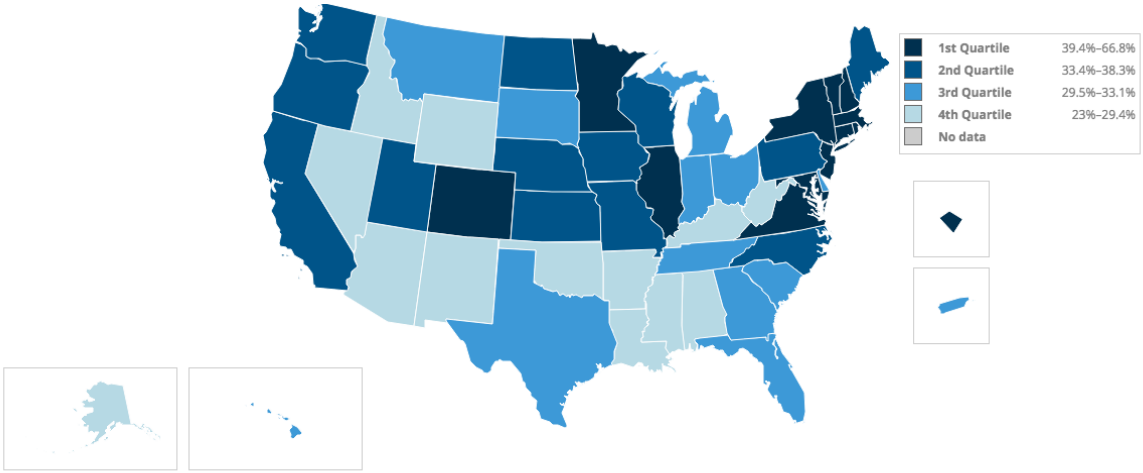
Nationwide, the portion of this age cohort with a postsecondary degree has increased over time though continues to vary substantially across states. Highest percentages of bachelor’s degree holders are typically found in the New England and Middle Atlantic states.

Data sources: U.S. Census Bureau, special tabulations of the American Community Survey; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program.

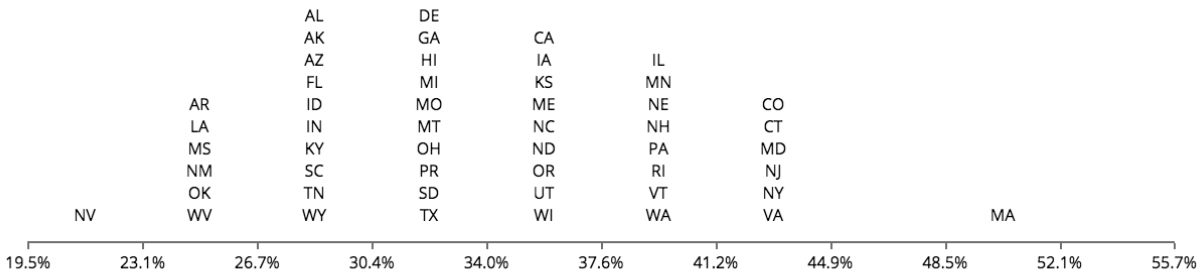
State Indicators

S-30 Bachelor's Degree Holders among Individuals 25–44 Years Old

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

Bachelor's Degree Holders among Individuals 25–44 Years Old

(Percent)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	29.4	29.6	30.1	30.4	31.2	31.1	31.7	32.4	32.9	33.6
Alabama	23.5	22.6	23.6	24.1	24.6	23.8	24.7	26.2	25.0	25.6
Alaska	24.0	26.4	25.5	26.0	24.0	27.3	27.0	27.3	28.0	26.9
Arizona	25.2	26.4	25.9	25.9	27.2	25.3	26.5	27.6	27.4	27.8
Arkansas	20.5	20.7	20.3	20.9	21.7	21.7	23.0	23.8	23.5	24.0
California	29.3	29.7	30.1	30.1	31.2	31.2	31.5	32.3	32.4	33.6
Colorado	37.3	36.4	37.3	37.3	37.9	37.8	38.6	38.8	39.3	40.4
Connecticut	37.8	37.4	38.3	39.5	38.9	39.7	39.9	41.2	41.6	42.3
Delaware	30.5	31.8	28.1	29.6	32.2	30.7	32.3	32.2	34.5	34.4
District of Columbia	52.2	55.7	57.2	57.6	58.2	61.1	63.4	62.9	66.0	66.8
Florida	25.5	26.3	26.8	26.4	26.9	26.5	27.1	27.9	28.3	28.5
Georgia	30.6	28.9	29.7	29.9	30.7	29.6	30.3	30.4	30.8	31.2
Hawaii	26.8	30.2	29.5	29.4	31.1	30.1	29.2	30.7	33.6	32.6
Idaho	24.0	24.6	26.1	24.9	24.6	25.4	26.3	25.8	27.3	26.1
Illinois	33.8	33.8	34.5	35.2	35.9	35.9	36.7	37.3	37.6	38.8
Indiana	23.8	24.7	25.4	26.2	26.3	26.3	26.9	27.6	27.3	28.8
Iowa	29.4	29.4	30.2	30.5	30.7	30.7	31.8	32.7	32.3	34.7
Kansas	31.4	32.0	32.2	33.1	32.6	34.1	33.5	33.6	34.2	35.3
Kentucky	22.0	22.8	23.1	23.3	25.1	24.3	24.5	25.5	26.5	26.4
Louisiana	21.6	21.7	20.9	21.7	24.1	23.6	23.5	24.7	25.3	26.1
Maine	25.0	26.8	28.7	26.5	28.6	28.4	30.9	28.3	30.3	32.0
Maryland	36.2	37.9	37.2	37.8	39.4	38.6	40.0	40.7	40.7	42.3
Massachusetts	42.7	43.2	44.8	44.7	46.3	46.3	45.8	46.5	47.7	48.6

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Michigan	28.0	28.6	29.0	29.1	28.8	28.9	29.6	30.1	31.0	31.8
Minnesota	35.9	35.5	36.3	36.9	37.2	37.9	38.2	38.9	38.8	40.0
Mississippi	19.7	20.7	20.4	20.3	21.2	20.9	21.4	22.2	21.9	24.0
Missouri	27.7	28.2	28.7	28.9	29.9	30.3	30.6	31.1	31.8	32.8
Montana	27.9	29.9	27.9	29.4	30.4	31.5	32.1	32.0	31.8	31.5
Nebraska	32.4	31.8	32.2	31.9	32.1	33.8	32.6	34.3	34.7	35.6
Nevada	19.8	20.3	20.9	21.1	21.6	21.3	21.1	22.4	21.8	22.8
New Hampshire	34.6	34.9	36.0	37.2	36.2	36.2	37.1	38.1	37.5	38.8
New Jersey	38.0	38.4	38.2	39.2	39.6	40.6	40.5	42.0	42.3	42.8
New Mexico	21.9	22.9	22.8	22.5	22.9	22.1	23.0	24.0	24.8	23.2
New York	35.8	35.7	36.7	37.4	39.2	38.4	39.1	39.6	40.9	41.5
North Carolina	28.0	27.4	28.0	28.4	29.9	29.3	30.1	30.5	31.9	32.3
North Dakota	30.8	31.5	31.2	33.7	31.2	35.4	32.8	35.7	33.0	33.1
Ohio	27.1	27.0	28.0	28.6	29.2	29.3	29.3	30.1	31.1	31.8
Oklahoma	23.4	23.1	23.6	23.4	23.4	24.1	25.6	25.3	25.6	26.0
Oregon	28.9	29.3	30.6	30.5	30.9	30.7	30.8	32.8	33.3	33.7
Pennsylvania	30.1	30.4	30.9	31.5	32.9	33.3	33.4	34.5	35.6	35.9
Rhode Island	33.7	34.8	34.0	34.3	35.3	35.3	34.8	35.6	35.7	34.7
South Carolina	24.2	23.4	25.1	24.9	26.4	26.2	26.4	27.3	28.6	28.3
South Dakota	29.3	29.5	28.8	29.4	27.9	30.4	29.8	30.1	31.2	31.8
Tennessee	23.9	24.0	24.2	25.6	27.2	26.4	27.2	28.3	29.1	28.9
Texas	25.2	25.4	25.8	26.0	26.4	26.7	27.4	27.7	28.8	29.4
Utah	29.1	28.7	29.4	29.4	29.5	29.8	30.1	31.4	32.1	31.4
Vermont	33.8	33.2	35.1	34.3	35.5	34.6	38.9	38.2	38.9	39.3
Virginia	34.9	35.5	36.0	36.2	37.2	38.2	39.6	39.7	40.0	41.4
Washington	31.2	32.3	32.0	31.7	32.8	32.5	32.7	32.8	34.1	35.3

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West Virginia	19.5	19.6	19.8	20.1	20.2	21.4	23.0	22.5	22.7	23.2
Wisconsin	28.8	29.2	29.6	30.1	30.2	30.5	30.8	32.1	32.8	33.4
Wyoming	23.0	22.4	22.8	23.0	23.9	24.7	26.4	24.8	29.2	26.8
Puerto Rico	26.9	27.5	28.9	28.6	29.0	27.9	29.3	30.8	30.2	29.9

Note(s):
Bachelor's degree holders include those who completed a bachelor's or higher degree. The national total for degree holders for the United States includes Puerto Rico; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Census Bureau, special tabulations of the American Community Survey (various years), data as of November 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Bachelor's Degree Holders among Individuals 25–44 Years Old

(Percent)

State	2015	2016
United States	34.2	34.9
Alabama	26.5	27.2
Alaska	28.9	29.0
Arizona	27.6	28.6
Arkansas	24.6	25.0
California	34.5	35.4
Colorado	41.5	41.3
Connecticut	43.1	43.5
Delaware	33.8	33.1
District of Columbia	68.4	66.8
Florida	29.9	30.0
Georgia	32.1	32.8
Hawaii	33.8	33.0
Idaho	27.4	29.4
Illinois	38.8	40.2
Indiana	28.9	30.1
Iowa	33.7	35.0
Kansas	35.4	35.8
Kentucky	27.3	27.5
Louisiana	25.9	25.9
Maine	32.9	34.2
Maryland	42.4	43.1
Massachusetts	48.9	50.4

State Indicators

State	2015	2016
Michigan	31.9	32.4
Minnesota	40.5	40.4
Mississippi	22.6	23.4
Missouri	32.8	33.4
Montana	34.5	32.8
Nebraska	35.7	37.8
Nevada	23.1	23.0
New Hampshire	40.2	41.0
New Jersey	43.7	44.4
New Mexico	23.0	24.9
New York	42.2	42.7
North Carolina	32.6	34.0
North Dakota	34.6	36.7
Ohio	32.0	32.6
Oklahoma	25.9	26.7
Oregon	35.6	35.5
Pennsylvania	36.7	38.3
Rhode Island	35.9	39.4
South Carolina	28.7	29.5
South Dakota	31.6	32.7
Tennessee	30.0	30.0
Texas	30.1	30.6
Utah	32.5	34.6
Vermont	38.2	40.4
Virginia	41.2	41.8
Washington	36.5	37.8

State Indicators

State	2015	2016
West Virginia	23.9	25.1
Wisconsin	33.7	35.2
Wyoming	27.6	28.3
Puerto Rico	30.3	30.6

Note(s):
Bachelor's degree holders include those who completed a bachelor's or higher degree. The national total for degree holders for the United States includes Puerto Rico; The national population total for the United States includes Puerto Rico.

Source(s):
U.S. Census Bureau, special tabulations of the American Community Survey (various years), data as of November 2017; U.S. Census Bureau, 2000 and 2010 Decennial Censuses and Population Estimates Program (various years), data as of June 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Bachelor's degree holders 25–44 years old

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	24,630,555	24,791,935	25,148,075	25,340,695	25,948,790	25,879,000	26,405,400	27,104,110	27,729,645	28,487,795
Alabama	288,815	279,105	290,290	296,950	303,640	293,020	302,530	321,275	306,775	315,335
Alaska	45,315	49,715	48,100	49,345	45,860	54,015	54,020	55,615	57,845	56,020
Arizona	408,520	439,550	435,695	438,555	458,075	425,040	447,270	469,010	469,440	480,890
Arkansas	152,225	154,705	151,405	156,110	161,440	161,045	171,720	177,475	175,985	180,185
California	3,112,605	3,139,600	3,171,265	3,166,850	3,270,705	3,276,535	3,325,565	3,441,800	3,481,290	3,645,960
Colorado	512,180	502,930	518,480	524,215	537,205	540,440	559,125	569,570	586,135	612,010
Connecticut	362,930	353,075	356,700	364,875	354,995	358,585	357,970	367,495	368,910	371,275
Delaware	71,090	73,850	65,105	68,075	73,655	69,830	73,415	73,590	79,645	80,495
District of Columbia	96,815	104,725	108,660	111,030	115,960	127,235	138,825	143,880	156,455	162,040
Florida	1,212,200	1,261,960	1,285,285	1,259,505	1,270,000	1,253,795	1,291,830	1,345,635	1,377,115	1,409,820
Georgia	820,695	788,910	815,245	825,555	844,470	808,440	829,700	833,060	842,380	858,275
Hawaii	95,030	108,310	104,925	105,510	111,895	109,170	106,725	114,040	126,625	123,990
Idaho	89,960	94,110	102,125	98,870	98,195	102,010	106,170	104,725	111,820	108,245
Illinois	1,216,935	1,207,920	1,225,025	1,246,880	1,264,185	1,256,125	1,280,115	1,297,660	1,306,450	1,340,980
Indiana	408,105	421,400	431,560	442,580	440,160	438,225	448,595	458,180	455,340	480,370
Iowa	221,495	219,910	225,940	227,350	228,595	229,770	238,650	245,275	243,005	261,785
Kansas	224,945	228,390	230,050	237,395	234,605	247,320	243,650	245,280	249,700	257,970
Kentucky	256,210	265,170	268,165	268,370	287,620	277,255	279,375	289,325	299,445	297,590
Louisiana	267,430	250,100	242,865	253,510	285,090	282,390	283,640	300,230	310,520	323,175
Maine	85,985	90,375	95,435	86,560	91,690	89,450	96,290	87,590	93,755	98,610
Maryland	582,280	605,875	587,905	592,420	613,135	601,335	627,065	642,600	644,750	672,305
Massachusetts	780,520	775,630	793,675	784,970	805,480	803,235	795,925	812,840	838,555	858,615
Michigan	757,970	759,115	753,760	739,240	714,045	703,205	711,955	721,155	740,685	759,510

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	511,400	500,910	512,435	519,390	520,360	529,150	535,145	546,610	547,700	565,365
Mississippi	152,605	159,020	156,955	155,485	161,960	159,265	162,730	168,990	166,210	182,480
Missouri	429,500	436,850	443,270	443,525	456,595	461,865	466,570	473,755	485,785	502,075
Montana	63,695	68,280	64,465	68,490	71,370	74,345	76,275	76,565	76,940	77,290
Nebraska	149,235	145,720	147,775	146,230	148,520	157,755	153,065	162,440	165,205	170,245
Nevada	143,300	151,980	160,040	163,620	167,405	163,595	161,565	172,600	169,110	179,205
New Hampshire	122,680	121,670	123,285	124,820	118,845	116,700	118,255	120,500	117,740	121,535
New Jersey	943,940	940,690	922,810	935,585	935,350	951,630	945,455	979,215	983,365	993,140
New Mexico	110,560	116,420	116,115	114,535	117,145	114,135	119,740	125,180	129,510	120,695
New York	1,964,870	1,934,140	1,967,980	1,993,535	2,072,040	2,023,840	2,066,560	2,099,705	2,176,295	2,217,920
North Carolina	697,740	689,730	712,815	729,805	768,610	753,805	776,395	786,980	826,530	840,255
North Dakota	48,380	49,180	49,435	53,740	50,785	58,935	55,890	62,915	60,715	63,155
Ohio	833,140	820,655	840,230	846,255	852,180	845,475	840,370	861,400	891,570	914,590
Oklahoma	218,270	217,215	223,075	221,670	224,300	233,470	249,805	249,510	255,270	261,550
Oregon	284,780	291,515	307,420	308,690	315,665	315,040	317,300	340,800	348,440	357,085
Pennsylvania	979,365	981,800	989,050	1,000,910	1,035,975	1,040,685	1,045,715	1,082,555	1,120,305	1,130,985
Rhode Island	98,475	99,000	94,365	93,440	94,160	92,970	91,170	93,115	93,820	91,710
South Carolina	283,280	276,215	297,355	298,340	315,850	312,195	315,050	327,530	344,720	345,700
South Dakota	56,950	56,970	56,130	57,425	55,005	60,425	59,990	61,270	64,520	66,225
Tennessee	401,025	406,110	411,335	432,370	458,485	442,130	455,455	475,830	491,515	491,175
Texas	1,668,865	1,710,380	1,761,430	1,797,530	1,848,860	1,891,850	1,972,065	2,023,055	2,137,395	2,222,670
Utah	197,780	201,175	213,575	219,610	225,715	232,955	238,955	251,525	260,905	259,125
Vermont	53,695	51,825	53,805	51,830	52,955	51,125	56,930	55,360	56,310	56,365
Virginia	763,865	777,630	788,015	792,205	815,770	842,295	878,900	887,285	898,630	931,855
Washington	554,105	578,585	577,395	576,630	602,270	600,855	610,785	618,790	650,175	683,365
West Virginia	91,540	91,845	92,000	92,980	93,105	97,890	104,925	101,830	102,175	103,970

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	430,485	432,645	435,545	440,265	438,370	440,270	442,835	458,470	466,750	474,985
Wyoming	29,830	29,405	30,815	31,825	34,280	35,805	38,625	36,980	43,950	40,715
Puerto Rico	276,935	279,955	291,500	285,245	286,175	271,080	278,780	286,055	275,475	266,925

Science and Engineering Indicators 2018

State Indicators

Bachelor's degree holders 25–44 years old

State	2015	2016
United States	29,189,105	30,013,410
Alabama	326,725	334,875
Alaska	60,490	61,695
Arizona	483,815	508,275
Arkansas	185,215	189,255
California	3,786,335	3,921,620
Colorado	644,010	653,905
Connecticut	374,505	376,430
Delaware	79,970	78,485
District of Columbia	169,130	169,630
Florida	1,509,960	1,542,505
Georgia	887,900	914,050
Hawaii	129,455	127,000
Idaho	115,155	125,615
Illinois	1,334,310	1,373,560
Indiana	482,595	503,575
Iowa	255,250	266,910
Kansas	258,970	261,800
Kentucky	307,740	310,640
Louisiana	323,465	324,860
Maine	101,070	105,165
Maryland	676,610	688,420
Massachusetts	866,700	895,005
Michigan	764,125	781,050

State Indicators

State	2015	2016
Minnesota	574,010	576,235
Mississippi	172,140	177,815
Missouri	504,000	515,485
Montana	85,630	82,740
Nebraska	171,645	182,720
Nevada	185,210	187,330
New Hampshire	125,270	128,275
New Jersey	1,009,300	1,023,980
New Mexico	119,745	130,290
New York	2,259,140	2,283,450
North Carolina	851,625	893,505
North Dakota	68,550	73,320
Ohio	922,940	942,570
Oklahoma	263,530	273,315
Oregon	384,140	392,680
Pennsylvania	1,159,390	1,209,520
Rhode Island	95,225	104,775
South Carolina	355,430	370,085
South Dakota	66,160	69,025
Tennessee	512,470	516,755
Texas	2,314,775	2,389,780
Utah	272,775	297,280
Vermont	54,400	57,420
Virginia	928,960	943,490
Washington	718,770	763,975
West Virginia	106,555	110,950

State Indicators

State	2015	2016
Wisconsin	477,135	497,605
Wyoming	42,315	43,410
Puerto Rico	264,385	261,300
Science and Engineering Indicators 2018		

State Indicators

Individuals 25–44 years old

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	86,021,754	85,565,627	85,027,918	84,432,564	84,099,077	83,791,910	83,658,364	83,519,695	83,398,876	83,197,208
Alabama	1,284,371	1,266,952	1,249,808	1,238,460	1,231,571	1,228,586	1,233,767	1,232,608	1,231,410	1,232,200
Alaska	202,899	198,158	194,428	190,773	189,864	188,753	188,470	188,612	189,673	191,023
Arizona	1,514,406	1,526,458	1,543,384	1,554,533	1,580,090	1,620,018	1,664,223	1,682,760	1,690,369	1,685,082
Arkansas	749,201	743,315	737,150	734,963	736,873	741,013	747,504	747,162	745,354	743,283
California	10,724,282	10,750,718	10,725,588	10,697,022	10,675,493	10,619,001	10,578,738	10,519,395	10,505,976	10,493,897
Colorado	1,404,449	1,412,620	1,406,914	1,387,655	1,381,778	1,372,686	1,380,451	1,391,221	1,404,254	1,415,641
Connecticut	1,031,174	1,017,477	1,006,189	993,386	976,914	959,888	944,217	930,413	923,555	911,836
Delaware	236,255	233,890	232,409	231,993	232,563	232,763	232,516	231,339	230,357	228,638
District of Columbia	188,950	190,251	189,118	187,244	186,503	185,619	187,870	190,131	192,899	199,093
Florida	4,574,160	4,591,807	4,617,681	4,636,916	4,693,728	4,759,595	4,804,621	4,794,919	4,764,109	4,728,842
Georgia	2,656,884	2,668,017	2,668,636	2,662,858	2,674,993	2,685,792	2,727,666	2,747,437	2,758,599	2,750,052
Hawaii	361,421	357,271	354,814	350,487	351,586	355,213	358,311	355,570	358,796	360,092
Idaho	362,462	362,154	362,465	363,761	368,918	374,779	383,267	391,280	396,766	399,670
Illinois	3,787,941	3,756,180	3,720,108	3,675,421	3,634,054	3,595,524	3,572,420	3,552,188	3,537,433	3,517,245
Indiana	1,787,894	1,769,492	1,749,881	1,734,492	1,720,907	1,711,914	1,705,535	1,699,363	1,690,585	1,676,552
Iowa	805,939	793,288	780,285	768,483	759,650	753,008	747,836	747,886	746,335	745,305
Kansas	767,825	755,887	744,899	732,616	724,588	715,568	713,707	714,627	717,210	720,316
Kentucky	1,207,861	1,194,291	1,181,622	1,170,580	1,167,552	1,163,875	1,162,541	1,160,702	1,152,941	1,147,693
Louisiana	1,289,109	1,268,704	1,254,237	1,242,754	1,241,246	1,237,958	1,152,042	1,162,238	1,169,750	1,181,653
Maine	369,562	364,111	359,629	354,995	349,636	343,558	337,692	332,401	326,952	320,549
Maryland	1,663,110	1,652,198	1,643,595	1,632,141	1,620,262	1,610,134	1,598,650	1,580,856	1,569,212	1,558,062
Massachusetts	1,986,325	1,967,815	1,940,811	1,905,515	1,867,029	1,828,665	1,795,786	1,769,742	1,754,618	1,741,440
Michigan	2,952,464	2,905,689	2,851,453	2,801,823	2,754,780	2,708,190	2,658,755	2,601,061	2,537,217	2,476,233

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	1,496,022	1,486,814	1,471,180	1,453,237	1,438,206	1,423,781	1,412,852	1,411,388	1,405,692	1,399,672
Mississippi	805,410	794,888	785,469	777,834	775,580	774,027	767,066	768,082	767,502	764,156
Missouri	1,623,972	1,606,777	1,590,123	1,572,464	1,560,550	1,551,228	1,547,126	1,542,309	1,532,837	1,527,653
Montana	244,578	238,899	234,222	230,567	229,675	228,195	228,548	231,371	233,215	234,399
Nebraska	486,133	478,968	473,420	468,695	464,418	460,291	458,133	458,373	459,084	462,372
Nevada	632,738	648,880	663,253	677,529	701,910	724,049	747,896	765,237	774,847	774,536
New Hampshire	380,967	378,536	373,700	368,330	361,463	355,033	348,846	342,511	335,808	328,416
New Jersey	2,621,571	2,603,347	2,581,946	2,553,301	2,520,242	2,485,042	2,446,589	2,413,538	2,389,516	2,364,261
New Mexico	514,911	506,151	503,680	501,832	502,867	505,077	507,378	509,824	508,578	511,617
New York	5,823,214	5,775,563	5,719,243	5,659,284	5,583,555	5,492,496	5,417,603	5,357,444	5,324,739	5,290,037
North Carolina	2,502,030	2,504,293	2,497,029	2,486,750	2,489,901	2,494,079	2,518,651	2,544,472	2,570,907	2,573,672
North Dakota	174,094	168,631	164,379	160,764	159,374	157,141	156,114	158,461	159,328	162,677
Ohio	3,313,221	3,259,384	3,204,892	3,156,115	3,115,878	3,078,364	3,037,836	3,000,205	2,959,430	2,916,945
Oklahoma	972,426	960,435	951,788	940,700	936,143	933,315	938,630	945,623	949,236	959,376
Oregon	996,147	992,783	991,822	987,749	981,831	985,556	994,743	1,004,706	1,012,559	1,020,615
Pennsylvania	3,495,003	3,435,158	3,381,750	3,336,783	3,294,544	3,257,164	3,224,924	3,197,312	3,173,801	3,146,144
Rhode Island	310,069	306,912	304,816	302,712	299,215	292,094	284,670	277,823	272,611	266,874
South Carolina	1,184,456	1,175,787	1,170,078	1,165,350	1,168,196	1,169,533	1,179,555	1,186,911	1,196,665	1,195,108
South Dakota	205,892	202,454	199,552	196,608	195,250	194,053	193,284	194,894	195,036	196,965
Tennessee	1,715,304	1,699,828	1,685,039	1,675,364	1,675,964	1,679,791	1,690,961	1,697,092	1,691,716	1,684,731
Texas	6,495,058	6,529,822	6,552,685	6,556,417	6,589,095	6,634,314	6,742,164	6,835,875	6,921,332	7,007,959
Utah	627,787	633,099	641,229	650,255	663,806	679,624	701,224	726,571	746,850	765,668
Vermont	175,916	172,405	169,409	165,614	161,932	158,855	155,997	153,309	151,259	149,150
Virginia	2,237,682	2,227,441	2,212,969	2,196,616	2,192,025	2,190,025	2,190,642	2,186,905	2,189,453	2,191,638
Washington	1,814,246	1,805,606	1,792,653	1,774,739	1,771,863	1,774,193	1,791,998	1,803,331	1,819,408	1,835,742
West Virginia	498,535	487,860	481,424	476,738	472,377	469,859	468,119	465,516	463,268	460,260

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	1,578,869	1,561,327	1,544,764	1,526,655	1,510,765	1,495,134	1,479,447	1,471,698	1,462,682	1,452,804
Wyoming	138,145	134,483	132,677	130,128	129,628	129,772	131,399	135,001	138,230	143,309
Puerto Rico	1,048,414	1,042,353	1,037,623	1,034,563	1,032,246	1,027,725	1,019,384	1,010,002	998,917	986,055

Science and Engineering Indicators 2018

State Indicators

Individuals 25–44 years old

State	2010	2011	2012	2013	2014	2015	2016
United States	83,173,237	83,412,874	83,782,248	84,247,929	84,798,348	85,361,982	86,000,713
Alabama	1,228,978	1,225,634	1,226,353	1,228,347	1,230,594	1,232,897	1,233,200
Alaska	197,517	200,002	203,563	206,575	207,927	209,339	212,598
Arizona	1,681,276	1,687,681	1,699,025	1,711,497	1,731,179	1,751,183	1,778,348
Arkansas	743,050	745,216	746,558	748,294	750,170	753,451	757,481
California	10,512,391	10,571,346	10,651,255	10,745,573	10,861,413	10,965,621	11,077,717
Colorado	1,430,149	1,447,895	1,468,606	1,491,649	1,515,469	1,550,077	1,584,485
Connecticut	903,104	896,900	892,103	887,452	878,660	869,920	865,026
Delaware	227,468	227,605	228,424	230,859	234,274	236,303	236,926
District of Columbia	208,090	218,863	228,577	237,033	242,543	247,300	253,880
Florida	4,727,007	4,768,130	4,818,453	4,874,142	4,954,171	5,051,928	5,147,714
Georgia	2,733,258	2,734,267	2,738,442	2,738,272	2,750,340	2,766,800	2,785,270
Hawaii	362,425	365,901	371,302	376,826	379,968	382,886	385,131
Idaho	401,002	403,370	405,336	409,290	414,914	419,606	427,556
Illinois	3,500,538	3,489,539	3,478,308	3,472,623	3,459,204	3,438,036	3,420,788
Indiana	1,667,816	1,664,993	1,661,341	1,666,835	1,669,673	1,670,534	1,674,571
Iowa	748,136	749,752	749,556	751,551	754,578	757,891	761,908
Kansas	725,776	726,506	729,068	729,900	730,187	731,072	731,695
Kentucky	1,142,933	1,138,649	1,133,232	1,129,696	1,127,096	1,127,392	1,128,341
Louisiana	1,197,346	1,206,772	1,215,994	1,225,045	1,235,901	1,247,248	1,255,903
Maine	314,789	312,103	309,981	309,062	308,593	307,640	307,761
Maryland	1,559,855	1,566,931	1,577,528	1,585,566	1,590,862	1,594,602	1,595,834
Massachusetts	1,733,305	1,738,358	1,747,654	1,758,282	1,767,195	1,772,450	1,777,342
Michigan	2,433,532	2,408,814	2,393,961	2,389,454	2,390,497	2,395,882	2,408,971

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	1,396,248	1,399,366	1,403,484	1,410,900	1,415,140	1,417,686	1,425,118
Mississippi	762,824	761,913	761,063	760,674	760,776	760,047	759,788
Missouri	1,525,178	1,524,950	1,524,200	1,527,996	1,532,218	1,536,268	1,543,906
Montana	236,001	237,500	239,253	242,301	245,097	248,256	252,419
Nebraska	467,033	469,996	473,125	476,737	478,319	480,158	483,474
Nevada	769,354	766,879	771,761	776,988	787,617	800,510	815,885
New Hampshire	322,611	318,701	315,897	313,684	313,019	311,584	312,785
New Jersey	2,346,017	2,336,404	2,330,142	2,323,822	2,318,307	2,309,847	2,308,261
New Mexico	517,396	520,123	521,382	521,877	521,329	521,194	522,592
New York	5,271,378	5,288,119	5,307,099	5,327,043	5,341,564	5,348,795	5,353,334
North Carolina	2,575,118	2,576,995	2,580,484	2,590,070	2,600,169	2,608,892	2,625,691
North Dakota	166,628	170,338	176,161	184,213	190,879	198,242	199,967
Ohio	2,886,045	2,872,245	2,862,653	2,869,282	2,877,473	2,881,214	2,887,030
Oklahoma	969,276	977,057	985,949	997,305	1,006,091	1,017,009	1,024,244
Oregon	1,024,895	1,031,782	1,038,993	1,046,561	1,059,123	1,078,951	1,106,741
Pennsylvania	3,126,572	3,126,262	3,133,536	3,143,973	3,153,942	3,158,013	3,158,878
Rhode Island	263,517	261,756	261,483	262,558	264,164	264,933	266,053
South Carolina	1,193,852	1,192,932	1,197,807	1,207,402	1,221,676	1,238,814	1,254,441
South Dakota	199,057	201,065	203,893	206,750	208,320	209,084	210,858
Tennessee	1,677,890	1,677,077	1,683,001	1,688,293	1,698,535	1,708,312	1,723,338
Texas	7,096,850	7,195,358	7,309,268	7,416,119	7,550,968	7,688,925	7,812,015
Utah	781,517	792,675	801,458	812,973	824,718	838,623	859,778
Vermont	147,563	146,261	145,055	144,800	143,497	142,347	142,213
Virginia	2,204,259	2,217,478	2,234,087	2,246,952	2,253,213	2,256,437	2,257,985
Washington	1,846,005	1,865,039	1,884,398	1,905,767	1,933,851	1,970,778	2,022,565
West Virginia	458,010	455,631	453,078	450,295	447,677	445,342	441,833

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	1,445,260	1,437,766	1,429,747	1,424,774	1,420,131	1,414,193	1,414,479
Wyoming	144,921	146,057	149,168	150,663	152,018	153,571	153,282
Puerto Rico	972,221	949,922	930,003	913,334	893,109	873,899	853,314

Science and Engineering Indicators 2018

State Indicators

S-31 Bachelor's Degree Holders in the Labor Force

Description

This indicator represents the percentage of a state's labor force that has earned at least a 4-year undergraduate degree. High values indicate a higher concentration of individuals with higher education qualifications in a state. Knowledge-intensive businesses seeking to relocate may be attracted to states with high values on this indicator. Workers with at least a bachelor's degree have an advantage over less-educated workers in expected lifetime earnings.

Estimates of state labor forces and educational attainment have been developed by the U.S. Census Bureau. Data are derived from the American Community Survey (ACS), the largest household survey in the United States, with a sample size of about 3.5 million addresses. The ACS collects information on an annual basis and assigns workers to a state based on where they live. Bachelor's degree holders include those with degrees awarded by both public and private institutions and in S&E and non-S&E fields.

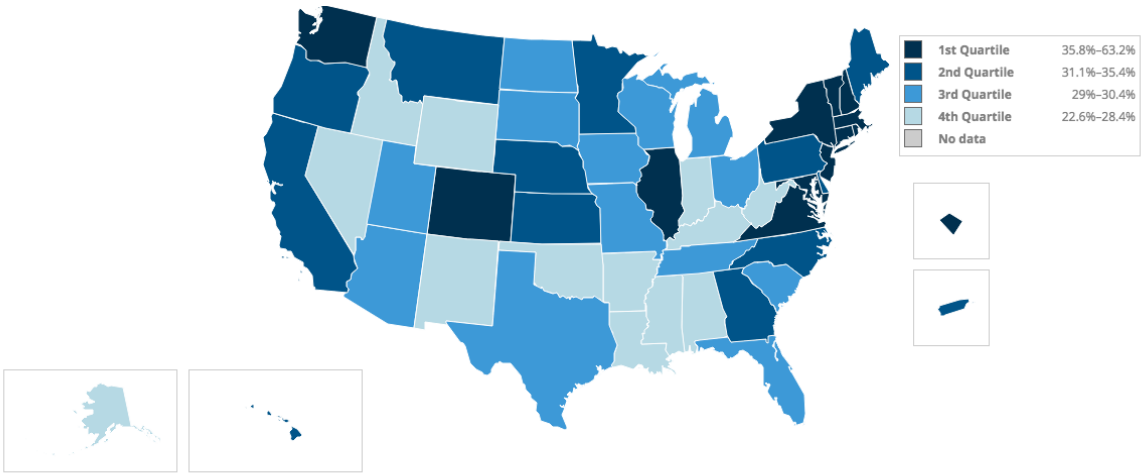
Because these values are estimates, small differences in the values of the indicator between states or across time are generally not meaningful.

Data source: U.S. Census Bureau, special tabulations of the American Community Survey.

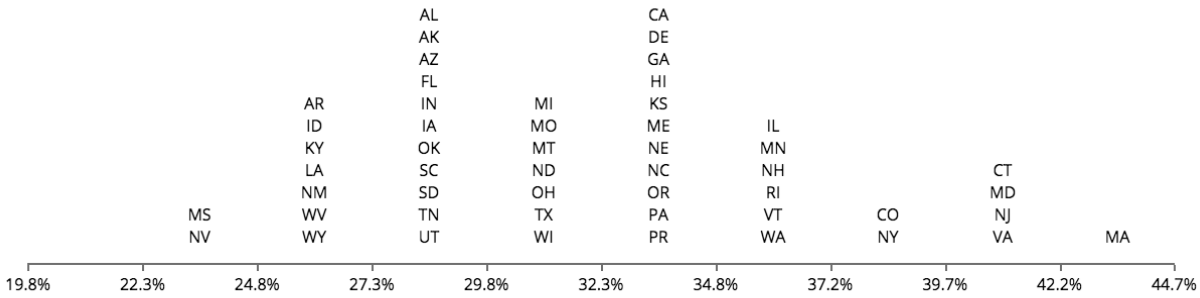
State Indicators

S-31 Bachelor's Degree Holders in the Labor Force

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

Bachelor's Degree Holders in the Labor Force

(Percent)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	28.1	28.2	28.8	28.8	29.3	29.8	30.2	30.9	31.3	31.8
Alabama	22.7	23.2	23.5	23.9	23.8	24.0	24.6	25.8	25.8	25.7
Alaska	25.3	24.8	24.4	26.1	25.5	28.1	26.0	28.7	26.9	29.5
Arizona	24.8	25.6	25.1	25.1	25.6	26.3	26.4	27.7	27.9	27.7
Arkansas	19.8	20.1	20.7	20.5	20.6	21.3	22.7	23.3	22.6	24.3
California	30.0	29.6	30.1	30.1	30.5	30.7	31.2	31.9	32.1	32.8
Colorado	34.7	33.9	34.5	35.0	35.7	36.4	36.5	37.5	37.8	37.8
Connecticut	36.5	34.6	35.7	36.3	36.6	36.3	37.1	38.2	38.5	39.1
Delaware	28.8	29.4	26.9	27.3	29.4	29.5	29.7	30.3	32.6	31.7
District of Columbia	52.9	52.1	54.3	53.3	52.9	55.8	58.2	59.5	60.5	59.7
Florida	25.3	25.9	26.4	26.4	26.1	26.6	26.7	27.5	28.1	28.2
Georgia	27.9	27.5	28.3	28.6	29.2	28.7	29.6	30.3	30.1	31.1
Hawaii	29.0	30.9	30.0	29.5	30.5	29.7	30.8	30.9	32.8	32.2
Idaho	23.3	22.8	24.2	23.6	23.1	24.6	25.2	25.2	26.0	25.0
Illinois	30.5	30.4	31.1	31.4	32.3	33.0	33.2	33.4	34.4	35.3
Indiana	22.1	22.8	23.8	24.5	24.1	24.8	24.6	25.0	25.6	26.7
Iowa	24.9	25.1	24.8	25.0	26.3	26.2	26.2	27.8	27.4	28.3
Kansas	28.2	28.7	29.4	29.8	30.5	31.0	31.0	30.5	31.9	31.4
Kentucky	21.8	22.7	22.7	22.0	24.0	24.0	24.2	25.1	25.6	25.9
Louisiana	22.3	21.6	21.7	22.0	23.4	23.3	22.5	24.3	24.9	25.3
Maine	25.2	26.9	27.6	24.8	28.1	28.5	30.8	29.5	28.9	31.8
Maryland	35.2	35.7	36.3	36.0	36.9	37.3	37.9	38.3	38.8	39.6
Massachusetts	38.6	38.8	40.5	39.6	40.7	41.2	41.2	41.7	42.1	43.6

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Michigan	26.1	26.1	26.3	26.3	26.4	27.4	27.7	28.2	28.8	29.4
Minnesota	30.7	30.2	30.8	31.9	31.6	32.9	33.1	33.6	33.8	34.6
Mississippi	20.0	20.3	19.9	21.1	21.6	21.7	22.3	22.2	22.2	22.9
Missouri	25.4	25.6	26.8	26.5	27.4	27.5	28.3	28.5	29.4	29.7
Montana	26.5	27.5	25.8	27.9	27.1	30.8	30.6	29.4	28.1	27.9
Nebraska	25.6	26.8	27.5	27.3	27.3	28.4	28.0	30.2	30.4	31.1
Nevada	20.0	20.7	21.2	21.6	21.4	21.0	22.0	22.2	21.9	22.2
New Hampshire	30.6	31.3	31.9	32.8	32.7	34.4	33.5	35.5	35.1	35.1
New Jersey	36.4	35.5	36.0	36.4	36.7	37.5	37.7	38.5	38.8	39.6
New Mexico	24.4	25.4	24.9	24.1	25.4	25.3	26.2	27.0	26.4	25.6
New York	34.3	34.2	34.8	34.8	35.9	35.9	36.5	36.8	37.5	38.4
North Carolina	26.1	25.9	27.2	27.4	28.2	27.8	28.3	29.0	30.2	30.6
North Dakota	26.3	26.5	27.5	26.2	27.9	29.8	26.1	29.2	28.8	26.3
Ohio	24.6	24.4	25.9	25.7	26.0	26.7	26.9	27.5	28.3	28.7
Oklahoma	23.5	23.2	23.5	23.5	23.7	23.8	25.6	25.3	25.1	25.3
Oregon	27.0	27.6	28.7	28.6	29.2	29.1	29.3	30.8	30.4	31.1
Pennsylvania	28.4	28.3	28.4	28.7	29.2	30.0	30.2	31.3	31.7	32.3
Rhode Island	30.2	30.1	31.7	31.3	31.7	32.0	32.5	33.3	33.7	32.3
South Carolina	24.0	23.6	25.1	25.2	25.9	26.3	24.7	26.7	27.0	27.4
South Dakota	24.2	25.2	25.3	23.2	25.0	28.9	26.6	26.2	26.5	26.5
Tennessee	23.5	24.1	24.0	24.5	25.3	25.6	26.1	27.1	27.0	27.9
Texas	25.3	25.1	25.9	25.8	26.3	26.8	27.3	27.8	28.4	28.6
Utah	24.3	25.5	25.3	25.9	25.5	26.7	27.3	28.4	28.2	28.6
Vermont	31.8	31.1	33.5	32.8	33.1	33.3	37.7	34.7	35.0	36.5
Virginia	33.7	33.7	35.0	34.4	35.3	36.0	37.0	37.3	37.8	38.3
Washington	29.9	30.3	30.5	31.0	30.9	31.8	32.3	32.5	33.7	33.8

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West Virginia	21.1	20.3	21.2	21.0	21.3	21.8	23.4	22.8	23.0	23.9
Wisconsin	25.5	25.7	26.2	25.8	25.6	26.7	27.3	28.2	28.3	29.7
Wyoming	21.8	21.5	23.5	22.0	22.3	25.1	23.9	25.4	27.0	24.6
Puerto Rico	26.6	27.8	29.4	28.9	29.2	29.9	31.7	33.0	32.3	32.9

Note(s):
The national labor force total for the United States includes Puerto Rico.

Source(s):
U.S. Census Bureau, special tabulations of the American Community Survey (various years), data as of December 2017.

Recommended Citation: National Science Board. 2018. “Bachelor's Degree Holders in the Labor Force.” Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/bachelors-degree-holders-in-labor-force

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Bachelor's Degree Holders in the Labor Force

(Percent)

State	2015	2016
United States	32.4	33.1
Alabama	26.7	27.4
Alaska	26.6	28.4
Arizona	28.0	29.0
Arkansas	23.3	24.8
California	33.5	34.3
Colorado	38.9	39.6
Connecticut	39.8	40.2
Delaware	33.0	33.8
District of Columbia	62.0	63.2
Florida	29.5	29.4
Georgia	31.6	32.6
Hawaii	31.6	33.5
Idaho	25.0	26.8
Illinois	35.3	36.1
Indiana	27.1	27.7
Iowa	27.8	29.4
Kansas	32.2	33.2
Kentucky	26.3	26.5
Louisiana	25.9	25.9
Maine	32.1	33.4
Maryland	40.6	40.6
Massachusetts	43.9	44.7

State Indicators

State	2015	2016
Michigan	29.9	30.1
Minnesota	35.6	35.4
Mississippi	22.9	23.7
Missouri	29.8	30.1
Montana	29.5	31.1
Nebraska	30.6	32.3
Nevada	23.1	22.6
New Hampshire	35.5	36.8
New Jersey	40.5	41.4
New Mexico	26.5	26.9
New York	39.1	39.5
North Carolina	31.4	32.4
North Dakota	30.9	30.4
Ohio	29.1	29.8
Oklahoma	26.4	27.3
Oregon	33.1	33.0
Pennsylvania	32.5	34.2
Rhode Island	34.2	36.7
South Carolina	28.5	29.2
South Dakota	27.9	29.6
Tennessee	28.4	29.0
Texas	29.1	29.8
Utah	28.6	29.3
Vermont	37.5	35.8
Virginia	38.9	39.8
Washington	35.1	36.3

State Indicators

State	2015	2016
West Virginia	24.6	25.3
Wisconsin	30.0	30.3
Wyoming	25.0	26.5
Puerto Rico	33.8	34.0

Note(s):
The national labor force total for the United States includes Puerto Rico.

Source(s):
U.S. Census Bureau, special tabulations of the American Community Survey (various years), data as of December 2017.

Recommended Citation: National Science Board. 2018. "Bachelor's Degree Holders in the Labor Force." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/bachelors-degree-holders-in-labor-force

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Labor force participants with bachelor's degrees

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	41,642,112	43,022,070	44,228,332	45,470,256	46,227,572	46,874,229	47,643,945	49,112,616	50,000,529	51,141,663
Alabama	486,936	498,702	511,181	536,063	532,103	538,178	547,822	576,634	574,778	571,707
Alaska	86,424	89,309	88,804	96,629	93,401	104,725	100,248	109,084	105,357	113,189
Arizona	696,624	752,985	752,669	786,150	803,061	792,942	797,104	846,420	855,275	860,586
Arkansas	261,229	269,807	276,486	278,396	283,104	293,402	308,997	319,661	306,240	330,034
California	5,178,522	5,317,351	5,431,237	5,566,876	5,656,082	5,714,237	5,837,111	6,045,482	6,120,383	6,311,631
Colorado	861,920	873,559	909,415	951,038	970,925	987,693	1,001,598	1,046,065	1,058,006	1,078,175
Connecticut	657,879	652,066	672,675	695,579	702,440	706,181	723,057	747,488	753,361	761,727
Delaware	124,692	125,719	118,031	123,872	134,814	134,113	135,507	141,760	151,569	149,999
District of Columbia	144,794	165,555	172,608	175,810	176,366	193,101	204,538	217,029	223,357	228,969
Florida	2,134,473	2,286,954	2,358,346	2,394,530	2,378,834	2,447,967	2,469,496	2,583,743	2,637,567	2,678,211
Georgia	1,258,978	1,287,896	1,345,545	1,404,701	1,416,334	1,368,677	1,414,289	1,447,371	1,464,320	1,510,840
Hawaii	179,395	194,542	190,917	194,306	199,483	205,960	209,507	215,696	226,045	224,905
Idaho	165,260	168,029	180,951	182,261	174,705	185,838	192,986	194,439	200,180	191,637
Illinois	1,969,167	2,015,595	2,074,825	2,135,875	2,177,669	2,205,146	2,206,122	2,246,327	2,312,169	2,364,808
Indiana	686,239	742,346	772,240	812,695	796,642	810,492	802,705	822,464	840,506	880,966
Iowa	393,277	410,064	402,435	418,577	431,060	434,091	431,226	457,155	446,578	469,645
Kansas	407,500	424,046	434,592	453,418	454,043	461,791	465,023	454,723	474,393	461,370
Kentucky	429,263	460,657	461,900	450,415	494,936	489,985	493,366	518,461	529,872	534,467
Louisiana	467,633	436,054	440,618	468,392	510,313	511,885	491,007	533,459	544,343	554,596
Maine	175,320	190,456	191,300	173,826	195,210	198,221	215,622	205,175	200,535	219,366
Maryland	1,032,407	1,085,101	1,094,435	1,120,476	1,151,372	1,176,743	1,204,930	1,231,863	1,253,811	1,275,745
Massachusetts	1,286,061	1,341,966	1,410,987	1,426,322	1,476,732	1,483,475	1,493,519	1,519,258	1,553,015	1,621,278
Michigan	1,304,336	1,321,920	1,314,617	1,330,792	1,319,406	1,338,152	1,334,127	1,358,578	1,399,834	1,421,297

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	860,366	872,350	894,732	947,535	928,892	968,228	981,908	1,003,187	1,011,315	1,042,367
Mississippi	268,767	266,641	267,141	288,614	289,388	288,597	298,737	299,996	297,816	308,404
Missouri	745,517	762,831	805,592	813,402	836,499	836,215	858,782	859,606	894,828	894,576
Montana	130,040	134,473	126,940	139,558	137,092	156,874	158,737	151,677	143,745	144,492
Nebraska	240,155	259,535	265,568	271,186	270,377	283,578	285,822	305,742	307,700	318,075
Nevada	245,494	268,854	279,249	297,925	295,519	292,804	302,396	312,210	309,589	316,408
New Hampshire	219,764	232,192	236,571	245,972	247,527	256,111	246,039	261,951	257,230	263,133
New Jersey	1,595,135	1,612,387	1,627,338	1,697,730	1,703,352	1,746,810	1,757,219	1,801,002	1,814,621	1,875,260
New Mexico	224,797	238,837	234,411	232,060	243,084	243,364	256,951	262,181	252,678	246,258
New York	3,201,899	3,295,404	3,379,092	3,502,914	3,594,677	3,539,811	3,618,283	3,702,311	3,776,663	3,878,984
North Carolina	1,118,996	1,151,492	1,234,303	1,286,597	1,315,392	1,312,932	1,343,920	1,387,847	1,455,496	1,478,723
North Dakota	92,658	94,042	97,882	96,829	99,788	111,437	99,349	113,314	116,465	106,078
Ohio	1,417,871	1,436,533	1,525,526	1,533,699	1,538,594	1,562,847	1,570,950	1,595,797	1,649,579	1,685,039
Oklahoma	400,550	404,278	410,980	421,788	419,243	434,078	464,294	460,435	464,359	464,953
Oregon	498,670	530,540	554,610	563,005	574,433	566,422	573,785	600,312	597,498	612,947
Pennsylvania	1,727,496	1,770,659	1,783,357	1,842,512	1,890,598	1,940,418	1,954,582	2,042,779	2,065,492	2,099,247
Rhode Island	165,664	170,429	176,730	177,654	182,042	175,747	184,653	188,782	192,921	181,209
South Carolina	493,303	500,929	536,037	553,872	577,672	587,740	551,519	606,792	622,238	636,184
South Dakota	99,551	105,264	108,505	101,336	108,026	125,381	115,183	117,070	120,089	121,641
Tennessee	689,329	721,710	733,871	770,933	788,703	789,590	812,224	844,914	852,124	882,705
Texas	2,788,648	2,897,376	3,023,343	3,114,957	3,207,328	3,320,678	3,420,347	3,542,308	3,691,753	3,780,958
Utah	302,461	323,824	336,649	353,286	354,304	362,338	374,393	401,000	395,604	410,327
Vermont	110,925	109,973	120,020	116,614	117,212	117,231	132,156	122,038	118,801	126,281
Virginia	1,286,127	1,345,796	1,391,560	1,399,826	1,436,195	1,492,909	1,547,515	1,583,337	1,612,114	1,644,618
Washington	957,892	995,283	1,020,283	1,055,964	1,062,967	1,089,109	1,122,806	1,140,412	1,184,170	1,206,068
West Virginia	168,447	165,765	170,611	175,915	176,018	178,963	192,131	187,763	190,251	192,491

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	760,460	781,653	800,391	805,900	801,424	822,650	834,977	863,498	867,172	911,507
Wyoming	61,358	60,523	68,023	64,348	66,697	74,399	72,807	78,545	83,786	77,422
Puerto Rico	381,443	401,818	412,203	421,326	435,494	413,973	431,573	437,475	422,938	420,160

Science and Engineering Indicators 2018

State Indicators

Labor force participants with bachelor's degrees

State	2015	2016
United States	52,514,773	54,022,746
Alabama	589,031	610,675
Alaska	100,483	109,123
Arizona	884,678	939,330
Arkansas	315,351	337,702
California	6,523,363	6,728,487
Colorado	1,132,956	1,173,382
Connecticut	770,891	782,498
Delaware	157,001	158,894
District of Columbia	245,590	246,516
Florida	2,854,411	2,886,113
Georgia	1,569,780	1,637,902
Hawaii	224,276	240,637
Idaho	198,968	213,178
Illinois	2,344,075	2,403,358
Indiana	894,920	926,171
Iowa	461,841	492,031
Kansas	483,455	497,603
Kentucky	542,656	551,951
Louisiana	568,565	563,795
Maine	221,872	229,348
Maryland	1,308,158	1,320,429
Massachusetts	1,637,296	1,683,631
Michigan	1,456,300	1,478,641

State Indicators

State	2015	2016
Minnesota	1,085,242	1,076,529
Mississippi	303,010	315,350
Missouri	907,434	917,994
Montana	151,680	163,708
Nebraska	312,180	331,516
Nevada	332,978	333,436
New Hampshire	266,085	277,630
New Jersey	1,898,828	1,943,367
New Mexico	249,540	257,387
New York	3,965,538	3,981,433
North Carolina	1,534,097	1,609,307
North Dakota	127,270	127,769
Ohio	1,705,065	1,756,720
Oklahoma	490,045	504,371
Oregon	670,916	679,848
Pennsylvania	2,110,456	2,212,839
Rhode Island	192,153	202,187
South Carolina	664,867	698,320
South Dakota	125,347	135,863
Tennessee	906,963	931,574
Texas	3,900,483	4,080,930
Utah	420,731	442,650
Vermont	128,096	121,575
Virginia	1,676,463	1,721,765
Washington	1,270,997	1,339,547
West Virginia	196,626	203,376

State Indicators

State	2015	2016
Wisconsin	929,812	936,562
Wyoming	77,753	79,656
Puerto Rico	428,201	428,142
Science and Engineering Indicators 2018		

State Indicators

Labor force participants

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	147,995,360	152,681,949	153,660,207	157,688,350	157,605,063	157,358,576	157,857,487	159,165,660	159,911,050	160,808,680
Alabama	2,143,800	2,153,289	2,178,939	2,239,375	2,239,199	2,238,736	2,226,899	2,231,076	2,223,716	2,220,678
Alaska	341,611	359,860	364,230	370,147	366,654	372,474	385,733	380,282	391,937	384,237
Arizona	2,813,405	2,942,217	3,003,662	3,137,794	3,131,255	3,014,278	3,020,033	3,051,936	3,064,654	3,105,313
Arkansas	1,321,767	1,339,124	1,337,634	1,359,084	1,373,565	1,376,317	1,362,265	1,372,325	1,356,149	1,358,895
California	17,275,415	17,964,714	18,051,389	18,521,473	18,549,159	18,605,711	18,730,234	18,940,354	19,053,030	19,248,216
Colorado	2,481,061	2,580,283	2,639,613	2,720,370	2,718,104	2,712,787	2,746,415	2,786,246	2,797,674	2,851,025
Connecticut	1,804,434	1,884,064	1,883,595	1,918,716	1,920,005	1,943,169	1,950,204	1,955,793	1,955,028	1,950,629
Delaware	432,849	426,910	438,335	454,226	459,222	454,920	455,827	467,212	465,511	473,728
District of Columbia	273,649	317,915	318,027	329,712	333,254	346,041	351,524	364,594	369,202	383,650
Florida	8,428,195	8,842,355	8,948,265	9,081,513	9,109,152	9,209,294	9,248,300	9,379,406	9,387,426	9,498,646
Georgia	4,515,034	4,686,117	4,760,639	4,908,161	4,856,670	4,774,300	4,775,346	4,777,015	4,859,890	4,860,068
Hawaii	618,195	629,265	636,100	657,599	655,109	694,248	680,571	698,541	688,274	699,348
Idaho	710,129	736,501	746,453	770,957	755,919	756,841	765,726	771,370	770,392	765,046
Illinois	6,453,571	6,624,261	6,669,282	6,792,779	6,748,853	6,673,543	6,650,866	6,717,548	6,724,593	6,697,426
Indiana	3,111,308	3,259,145	3,240,357	3,315,817	3,299,096	3,262,746	3,265,891	3,293,883	3,279,950	3,304,995
Iowa	1,580,378	1,631,785	1,625,830	1,677,600	1,638,912	1,658,426	1,643,542	1,644,920	1,630,614	1,661,810
Kansas	1,446,723	1,475,160	1,476,212	1,522,022	1,491,029	1,489,133	1,500,303	1,488,662	1,485,296	1,470,002
Kentucky	1,971,323	2,031,930	2,036,788	2,044,816	2,058,394	2,044,751	2,034,680	2,067,368	2,066,887	2,065,128
Louisiana	2,094,383	2,021,368	2,026,413	2,126,081	2,179,327	2,200,215	2,182,506	2,197,021	2,189,905	2,192,577
Maine	694,497	708,719	692,778	702,099	694,032	695,414	699,373	695,742	694,382	689,511
Maryland	2,932,375	3,035,786	3,013,259	3,113,088	3,119,114	3,158,995	3,181,401	3,219,928	3,231,703	3,225,198
Massachusetts	3,332,030	3,461,475	3,482,727	3,598,723	3,630,134	3,603,637	3,622,093	3,643,654	3,686,069	3,717,636
Michigan	5,000,051	5,059,967	5,002,643	5,055,733	4,992,188	4,883,644	4,818,322	4,825,663	4,854,605	4,838,444

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	2,798,976	2,888,609	2,908,932	2,967,311	2,937,739	2,939,420	2,962,423	2,985,927	2,992,270	3,014,476
Mississippi	1,344,360	1,312,150	1,341,627	1,369,307	1,340,916	1,333,010	1,338,460	1,350,276	1,342,580	1,344,591
Missouri	2,931,370	2,980,521	3,009,411	3,070,451	3,055,942	3,038,555	3,030,265	3,015,301	3,039,194	3,014,125
Montana	490,033	488,128	491,491	500,400	505,019	509,730	519,545	516,492	512,359	517,805
Nebraska	939,570	969,490	967,087	991,775	990,066	999,882	1,020,864	1,011,995	1,012,599	1,022,473
Nevada	1,227,416	1,300,753	1,316,463	1,376,723	1,378,584	1,393,179	1,377,377	1,407,037	1,412,858	1,426,931
New Hampshire	719,084	741,493	740,791	749,059	757,384	744,632	734,543	738,242	733,028	748,839
New Jersey	4,383,172	4,543,660	4,524,352	4,664,659	4,643,334	4,656,909	4,660,893	4,672,653	4,675,815	4,733,144
New Mexico	923,090	938,559	941,571	963,609	956,504	960,996	981,722	972,318	957,136	961,388
New York	9,347,441	9,630,546	9,698,525	10,071,744	10,012,404	9,865,941	9,923,051	10,059,693	10,080,406	10,107,109
North Carolina	4,283,376	4,437,735	4,533,386	4,696,490	4,661,340	4,723,202	4,751,939	4,792,185	4,821,592	4,837,252
North Dakota	352,309	354,958	355,983	369,494	357,044	373,373	380,259	387,561	403,821	403,302
Ohio	5,755,334	5,890,510	5,883,341	5,963,419	5,922,129	5,853,392	5,845,414	5,805,108	5,837,355	5,863,007
Oklahoma	1,706,714	1,743,892	1,749,610	1,797,689	1,769,784	1,821,994	1,816,173	1,819,464	1,850,271	1,839,383
Oregon	1,849,827	1,919,330	1,935,584	1,965,726	1,964,242	1,948,448	1,955,592	1,948,647	1,966,976	1,968,848
Pennsylvania	6,077,495	6,252,771	6,268,613	6,418,173	6,467,424	6,468,362	6,475,946	6,521,035	6,522,573	6,506,107
Rhode Island	548,911	565,913	556,801	567,861	574,671	549,723	568,857	566,486	572,244	560,618
South Carolina	2,059,400	2,120,205	2,137,090	2,196,878	2,227,993	2,237,122	2,234,422	2,268,442	2,306,203	2,326,022
South Dakota	412,090	418,398	428,162	437,442	432,355	433,726	433,009	447,629	453,333	458,170
Tennessee	2,931,314	2,992,818	3,061,513	3,146,181	3,119,337	3,090,196	3,106,440	3,115,283	3,154,980	3,158,273
Texas	11,031,070	11,535,061	11,671,067	12,078,686	12,214,554	12,375,236	12,514,448	12,752,947	12,995,207	13,220,312
Utah	1,246,726	1,270,141	1,331,571	1,361,843	1,387,205	1,358,223	1,371,980	1,413,157	1,401,460	1,434,226
Vermont	349,231	353,235	358,233	356,063	354,327	352,268	350,442	351,627	339,010	345,813
Virginia	3,812,055	3,987,877	3,981,554	4,071,024	4,067,435	4,143,103	4,180,233	4,242,654	4,269,021	4,296,689
Washington	3,203,213	3,286,852	3,347,552	3,402,157	3,443,963	3,427,773	3,477,997	3,512,841	3,516,248	3,570,569
West Virginia	799,202	817,999	804,437	839,321	827,961	822,474	820,111	822,817	828,102	805,455

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	2,979,108	3,040,285	3,050,991	3,126,866	3,127,678	3,085,961	3,059,643	3,061,808	3,068,431	3,069,759
Wyoming	281,714	281,308	289,291	292,103	298,480	296,508	304,992	309,051	310,719	315,351
Puerto Rico	1,435,576	1,446,542	1,402,008	1,458,011	1,490,903	1,385,618	1,362,393	1,326,445	1,308,372	1,276,437

Science and Engineering Indicators 2018

State Indicators

Labor force participants

State	2015	2016
United States	161,978,335	163,193,263
Alabama	2,204,329	2,228,629
Alaska	378,281	383,642
Arizona	3,154,291	3,237,152
Arkansas	1,353,264	1,362,509
California	19,486,303	19,616,898
Colorado	2,914,983	2,960,389
Connecticut	1,939,022	1,945,182
Delaware	476,344	469,945
District of Columbia	395,870	389,750
Florida	9,665,907	9,808,814
Georgia	4,959,878	5,030,227
Hawaii	709,375	717,891
Idaho	795,774	795,654
Illinois	6,649,126	6,655,828
Indiana	3,306,704	3,341,382
Iowa	1,662,407	1,673,901
Kansas	1,501,153	1,500,665
Kentucky	2,064,486	2,080,946
Louisiana	2,191,329	2,178,105
Maine	690,788	686,541
Maryland	3,219,540	3,253,870
Massachusetts	3,732,638	3,762,875
Michigan	4,869,341	4,909,889

State Indicators

State	2015	2016
Minnesota	3,045,926	3,043,245
Mississippi	1,323,314	1,329,213
Missouri	3,044,952	3,045,518
Montana	513,992	526,208
Nebraska	1,020,743	1,024,926
Nevada	1,443,863	1,475,312
New Hampshire	748,591	754,471
New Jersey	4,691,929	4,697,091
New Mexico	943,091	957,277
New York	10,152,915	10,077,957
North Carolina	4,893,202	4,959,655
North Dakota	411,565	420,603
Ohio	5,868,407	5,885,395
Oklahoma	1,853,136	1,848,193
Oregon	2,026,182	2,058,535
Pennsylvania	6,492,810	6,473,288
Rhode Island	561,122	551,388
South Carolina	2,335,624	2,388,732
South Dakota	449,837	458,313
Tennessee	3,195,762	3,211,531
Texas	13,418,103	13,690,057
Utah	1,473,638	1,509,052
Vermont	341,874	339,881
Virginia	4,307,056	4,326,968
Washington	3,621,202	3,689,063
West Virginia	800,030	804,212

State Indicators

State	2015	2016
Wisconsin	3,099,439	3,094,841
Wyoming	311,164	301,073
Puerto Rico	1,267,733	1,260,581
Science and Engineering Indicators 2018		

State Indicators

S-32 Individuals in Science and Engineering Occupations as a Percentage of All Occupations

Description

This indicator represents the extent to which a state's workforce is employed in S&E occupations. A high value indicates that a state's economy has a high concentration of scientific and technical jobs relative to its total workforce. Policymakers and scholars consistently emphasize innovation based on S&E research and development as a vehicle for economic growth and competitiveness. In the increasingly interconnected 21st-century world, workers with S&E expertise are integral to a nation's innovative capacity because of their high skill level, their creative ideas, and their ability not only to advance basic scientific knowledge but also to transform advances in fundamental knowledge into tangible and useful products and services.

U.S. federal occupation data classify workers by the activities or tasks they primarily perform in their jobs. This information is used to classify jobs into standard occupational categories based on the Standard Occupational Classification (SOC) system. S&E occupations are defined by SOC. They include engineers; computer, mathematical, life, physical, and social scientists; and postsecondary teachers in these fields. S&E managers, technicians, elementary and secondary schoolteachers, and medical personnel are not included.

Data on individuals in S&E occupations and all occupations come from the Bureau of Labor Statistics (BLS) Occupational Employment Statistics (OES) Survey, a survey of workplaces that assigns workers to a state based on where they work. Estimates are developed by BLS from data provided by state workforce agencies. The OES survey covers all full-time and part-time wage and salary workers in nonfarm industries. The survey does not cover the self-employed, owners and partners in unincorporated firms, household workers, or unpaid family workers.

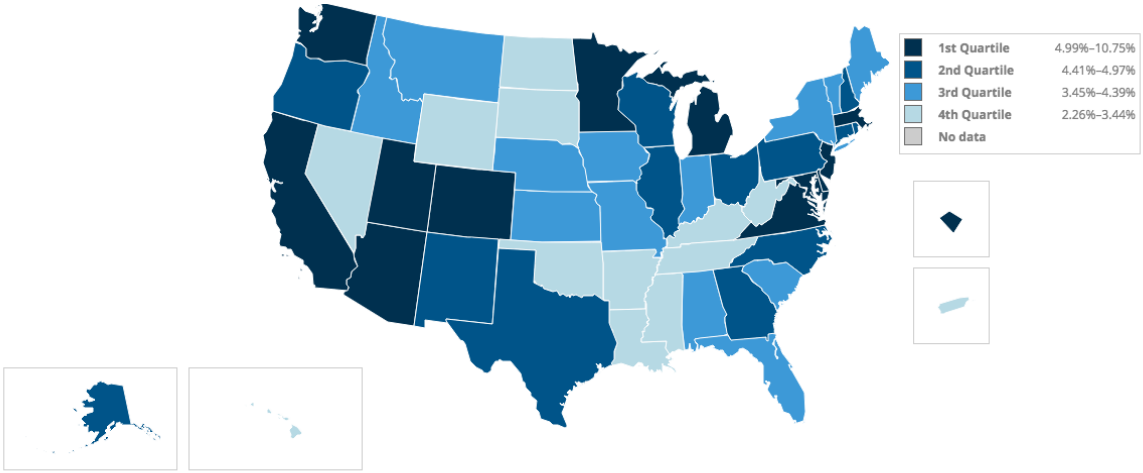
Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

Data source: U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics Survey.

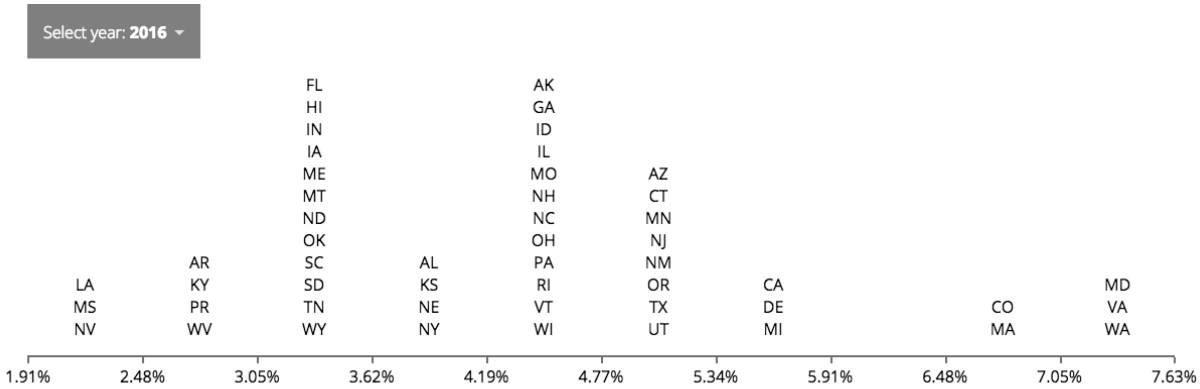
State Indicators

S-32 Individuals in Science and Engineering Occupations as a Percentage of All Occupations

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

Individuals in Science and Engineering Occupations as a Percentage of All Occupations

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	3.89	4.01	4.02	4.08	4.16	4.28	4.43	4.37	4.52	4.58
Alabama	3.10	3.23	3.35	3.46	3.61	3.53	3.68	3.79	3.88	3.99
Alaska	3.65	3.67	3.74	3.53	3.97	4.31	4.80	5.01	5.01	5.10
Arizona	4.05	4.15	3.96	3.81	3.87	3.87	4.15	4.35	4.85	4.84
Arkansas	1.91	2.13	2.16	2.13	2.43	2.49	2.74	2.57	2.58	2.56
California	4.68	4.82	4.87	NA	4.96	5.20	5.47	5.42	5.70	5.75
Colorado	5.92	5.89	5.86	6.06	6.15	6.38	6.63	6.64	6.64	6.69
Connecticut	4.99	5.11	5.09	4.78	4.77	4.73	4.80	4.69	4.76	4.84
Delaware	4.30	4.45	4.31	5.08	5.20	5.25	5.38	5.26	5.56	5.78
District of Columbia	9.22	10.08	10.37	10.52	10.17	9.97	9.64	9.36	9.72	9.73
Florida	3.06	3.14	3.16	3.13	3.07	3.19	3.36	3.37	3.43	3.41
Georgia	3.82	3.62	3.52	3.41	3.37	3.62	NA	3.88	3.91	3.90
Hawaii	2.89	3.07	2.99	3.16	3.07	3.07	3.24	3.41	3.48	3.56
Idaho	3.93	3.94	4.00	NA	3.79	3.58	3.83	4.06	4.38	4.22
Illinois	3.69	3.82	3.84	3.82	3.82	3.80	3.88	3.57	3.67	3.90
Indiana	2.75	2.81	2.76	2.75	2.84	3.10	3.26	3.33	3.40	3.36
Iowa	2.64	2.79	2.79	2.97	3.05	3.07	3.20	3.07	3.38	3.46
Kansas	4.02	4.01	3.92	3.68	3.71	3.95	4.17	3.75	3.94	3.86
Kentucky	2.63	2.52	2.54	2.51	2.72	NA	2.93	2.84	3.00	2.94
Louisiana	2.26	2.28	2.19	2.26	2.08	2.21	2.33	2.41	2.32	2.46
Maine	2.54	2.50	2.60	2.67	2.66	2.81	3.04	3.03	3.04	3.08
Maryland	6.10	6.39	6.41	6.30	6.37	6.52	6.77	6.77	6.97	7.15
Massachusetts	5.90	6.10	6.14	6.27	6.41	6.72	6.87	6.67	6.99	7.16

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	4.24	4.36	4.43	4.86	5.04	4.93	4.82	4.70	4.92	5.07
Minnesota	4.52	4.52	4.59	4.69	4.83	4.97	5.10	4.88	5.02	4.99
Mississippi	2.04	2.08	2.12	2.24	2.26	2.40	2.36	2.22	2.18	2.19
Missouri	3.21	3.47	3.46	3.57	3.74	3.85	3.91	3.95	4.13	4.21
Montana	2.90	2.85	2.88	3.05	3.04	NA	3.29	3.45	3.52	3.55
Nebraska	3.49	3.58	3.52	3.61	3.44	3.43	3.47	3.43	3.74	3.80
Nevada	2.06	2.12	2.05	2.14	2.09	2.14	2.34	2.41	2.55	2.40
New Hampshire	3.86	4.14	4.32	4.41	4.50	4.59	4.93	4.84	4.82	4.72
New Jersey	4.16	4.41	4.45	4.46	4.68	4.97	5.08	4.92	4.83	4.78
New Mexico	4.50	4.24	4.26	3.90	4.19	4.22	4.62	4.65	4.57	4.56
New York	3.31	3.41	3.47	3.66	3.79	3.78	3.72	NA	3.68	3.76
North Carolina	3.58	3.62	3.52	3.57	3.56	3.78	4.08	4.11	4.24	4.33
North Dakota	2.68	2.61	2.76	2.79	2.82	2.70	2.81	3.11	3.25	3.25
Ohio	3.34	3.40	3.39	3.46	3.68	3.88	4.08	3.98	4.18	NA
Oklahoma	3.13	3.22	3.18	3.38	3.36	3.14	3.00	2.98	3.14	3.30
Oregon	3.98	4.11	3.88	3.91	4.04	4.11	4.29	NA	NA	4.71
Pennsylvania	3.38	3.53	3.67	3.82	3.87	3.98	NA	NA	NA	NA
Rhode Island	3.93	4.02	3.77	3.74	3.79	3.78	3.95	4.06	4.31	4.45
South Carolina	2.76	2.84	2.80	2.89	2.88	3.05	3.18	3.22	3.44	3.52
South Dakota	2.51	2.57	2.53	2.65	2.97	3.00	2.94	2.88	3.00	3.01
Tennessee	2.44	2.47	2.47	2.47	2.59	2.64	2.63	2.80	2.98	3.00
Texas	3.95	4.13	4.13	4.19	4.39	4.46	4.57	4.47	4.55	4.67
Utah	4.37	4.20	4.10	4.32	4.26	4.27	4.32	4.43	4.40	4.56
Vermont	3.92	4.22	4.29	4.27	4.24	4.10	4.35	4.41	4.50	4.38
Virginia	6.13	6.68	6.69	6.98	6.99	7.06	7.36	7.25	7.53	7.63
Washington	5.87	6.00	6.07	6.28	6.54	NA	7.06	6.91	7.23	NA

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	2.38	2.31	2.30	2.41	2.32	2.37	2.32	2.48	2.61	2.80
Wisconsin	3.47	3.45	3.43	3.53	3.59	3.66	3.75	3.80	3.87	3.85
Wyoming	2.55	2.82	2.92	2.91	2.97	3.12	3.16	3.06	3.10	3.13
Puerto Rico	2.07	2.01	2.04	2.31	NA	2.30	2.37	2.19	2.25	2.31

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Individuals in Science and Engineering Occupations as a Percentage of All Occupations

(Percent)

State	2013	2014	2015	2016
United States	4.63	4.68	4.74	4.81
Alabama	4.16	4.01	3.89	3.79
Alaska	4.71	4.59	4.57	4.43
Arizona	4.98	5.06	5.17	5.22
Arkansas	2.66	2.77	2.84	2.79
California	5.77	5.83	NA	5.84
Colorado	6.71	6.79	6.83	6.99
Connecticut	4.82	4.80	4.79	4.82
Delaware	5.35	5.38	5.24	5.47
District of Columbia	9.81	10.20	10.34	10.75
Florida	3.36	3.36	3.43	3.45
Georgia	4.15	4.27	NA	4.66
Hawaii	3.51	3.41	3.40	3.44
Idaho	4.22	4.21	4.41	4.38
Illinois	3.98	4.08	4.19	4.41
Indiana	3.53	3.58	3.54	3.55
Iowa	3.52	3.53	3.46	3.49
Kansas	3.83	3.69	3.91	4.16
Kentucky	3.02	3.01	3.06	2.96
Louisiana	2.48	2.56	2.50	2.43
Maine	3.23	3.31	3.37	3.45
Maryland	7.37	7.43	7.46	7.57
Massachusetts	6.99	6.94	6.82	7.02

State Indicators

State	2013	2014	2015	2016
Michigan	5.20	5.39	5.50	5.65
Minnesota	4.97	5.14	5.18	5.31
Mississippi	2.24	2.27	2.30	2.26
Missouri	4.01	4.00	4.06	4.23
Montana	3.55	3.51	3.65	3.48
Nebraska	3.93	3.84	3.98	4.11
Nevada	2.33	2.26	2.29	2.32
New Hampshire	4.59	4.52	4.61	4.71
New Jersey	4.83	4.87	4.95	5.16
New Mexico	4.45	4.59	4.70	4.77
New York	3.86	3.96	4.11	4.16
North Carolina	4.41	4.49	4.54	4.71
North Dakota	2.96	2.94	2.89	3.30
Ohio	4.25	4.23	4.42	4.49
Oklahoma	3.33	3.35	3.45	3.43
Oregon	4.82	4.78	4.98	4.97
Pennsylvania	4.34	4.40	4.47	4.56
Rhode Island	4.55	4.57	4.57	4.63
South Carolina	3.57	3.59	3.55	3.60
South Dakota	3.17	3.23	3.36	3.39
Tennessee	NA	3.15	3.16	3.12
Texas	4.71	4.82	4.87	4.82
Utah	4.67	4.90	4.88	4.99
Vermont	4.33	4.41	4.52	4.39
Virginia	7.61	7.47	7.36	7.32
Washington	7.42	7.20	7.34	7.43

State Indicators

State	2013	2014	2015	2016
West Virginia	2.75	2.84	2.90	2.94
Wisconsin	3.93	4.13	4.25	4.42
Wyoming	NA	3.20	3.16	3.06
Puerto Rico	2.46	2.58	2.57	2.74

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Individuals in S&E occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	4,961,540	5,174,260	5,233,520	5,407,710	5,591,990	5,781,460	5,785,710	5,549,980	5,794,980	5,968,240
Alabama	56,380	59,880	62,790	66,100	69,650	68,580	68,670	68,450	70,290	72,880
Alaska	10,600	10,870	11,230	10,720	11,990	13,260	14,780	15,430	15,680	16,260
Arizona	92,120	98,400	96,410	98,110	102,380	102,100	102,820	102,870	115,330	116,930
Arkansas	21,340	24,170	24,660	24,860	28,460	29,310	31,420	29,200	29,350	29,530
California	676,180	703,250	716,530	NA	753,570	791,750	795,240	758,830	800,430	821,780
Colorado	124,140	125,510	126,110	133,730	138,990	147,000	148,090	143,210	144,750	149,020
Connecticut	81,380	83,840	83,930	79,380	80,280	80,290	79,160	74,990	76,550	78,450
Delaware	17,370	18,420	18,010	21,550	22,140	22,330	22,200	20,920	22,430	23,440
District of Columbia	54,890	61,460	63,410	64,120	63,150	63,360	61,430	59,870	62,660	63,600
Florida	221,070	235,170	241,000	246,190	244,140	248,200	247,070	239,600	244,970	248,300
Georgia	144,170	139,230	137,580	136,470	136,880	147,380	NA	145,220	147,820	148,830
Hawaii	16,090	17,630	17,460	18,940	18,740	18,830	19,020	19,500	20,100	20,930
Idaho	22,150	23,050	23,880	NA	24,330	23,310	23,520	24,130	25,950	25,260
Illinois	211,230	219,040	221,630	222,470	225,180	224,370	221,170	197,120	204,420	220,170
Indiana	78,410	80,950	79,910	80,110	83,080	90,840	90,750	90,710	93,640	94,620
Iowa	37,320	40,060	40,300	43,670	45,430	46,180	47,080	44,140	48,930	50,950
Kansas	51,970	52,650	51,630	48,620	50,040	54,260	56,200	48,970	51,530	50,930
Kentucky	45,230	43,740	44,530	44,680	49,030	NA	51,200	48,790	51,990	51,830
Louisiana	41,900	42,520	41,030	40,180	38,450	41,790	43,630	44,200	42,760	45,920
Maine	15,020	14,980	15,500	15,950	15,960	17,000	17,910	17,470	17,490	17,910
Maryland	149,250	158,350	160,120	159,470	162,540	167,070	169,540	166,700	173,020	179,550
Massachusetts	184,690	190,960	193,180	198,670	205,610	217,310	217,690	208,160	220,670	229,160
Michigan	182,940	188,580	192,150	208,520	212,040	204,290	187,760	176,570	188,380	198,610

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	117,120	118,590	120,930	125,930	129,840	134,440	134,060	125,100	130,340	131,690
Mississippi	22,190	22,970	23,480	24,910	25,520	27,270	25,940	23,770	23,440	23,640
Missouri	84,150	91,820	92,260	96,420	102,170	105,390	104,310	102,300	106,930	109,650
Montana	11,450	11,640	11,940	13,010	13,240	NA	14,210	14,620	14,960	15,360
Nebraska	30,710	31,760	31,530	32,500	31,420	31,820	31,790	30,930	33,800	34,720
Nevada	22,330	24,440	24,400	26,930	26,920	27,300	27,560	26,840	28,370	27,000
New Hampshire	23,430	25,620	26,840	27,680	28,450	29,150	30,550	29,200	29,260	28,950
New Jersey	161,420	171,990	174,270	176,460	186,120	198,060	195,690	185,360	182,210	181,480
New Mexico	33,600	32,000	32,530	30,800	33,440	34,560	36,950	36,130	35,520	35,310
New York	272,440	283,150	289,010	306,810	322,520	326,510	315,480	NA	310,510	321,480
North Carolina	132,440	136,430	134,290	138,790	142,970	153,680	158,920	155,030	161,880	167,900
North Dakota	8,430	8,460	9,070	9,360	9,660	9,450	9,930	11,050	12,070	13,120
Ohio	177,100	181,180	180,900	185,190	196,390	206,320	207,930	195,840	208,140	NA
Oklahoma	44,360	46,320	46,370	50,770	51,430	48,900	45,730	44,190	47,090	50,420
Oregon	61,230	64,820	62,030	64,520	67,890	70,070	69,630	NA	NA	75,780
Pennsylvania	185,560	195,510	204,270	214,910	218,890	227,170	NA	NA	NA	NA
Rhode Island	18,740	19,330	18,080	18,060	18,400	18,090	18,120	18,210	19,450	20,180
South Carolina	48,740	50,840	50,460	53,230	54,120	57,770	57,370	56,230	61,020	63,170
South Dakota	9,150	9,530	9,460	10,120	11,550	11,870	11,570	11,150	11,790	12,000
Tennessee	63,680	65,730	66,390	67,040	70,820	72,760	68,970	71,850	77,630	79,830
Texas	365,270	384,600	389,550	408,710	441,410	463,850	470,010	451,390	469,080	493,980
Utah	45,570	45,250	45,110	49,690	51,340	52,570	51,270	50,830	51,350	54,720
Vermont	11,420	12,510	12,770	12,780	12,760	12,360	12,780	12,670	13,100	12,870
Virginia	209,280	233,590	236,650	251,720	254,710	259,280	264,090	255,800	267,620	274,280
Washington	150,230	156,780	160,960	171,780	183,900	NA	196,850	186,210	196,760	NA
West Virginia	16,220	15,990	16,040	17,150	16,560	17,000	16,350	17,070	18,300	19,900

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	93,320	93,760	93,590	96,860	99,380	101,680	100,850	99,240	102,320	103,030
Wyoming	6,130	6,960	7,350	7,640	8,110	8,850	8,920	8,260	8,440	8,710
Puerto Rico	19,940	20,600	20,950	23,850	23,630	22,970	22,760	20,850	20,990	21,750

NA not available

Science and Engineering Indicators 2018

State Indicators

Individuals in S&E occupations

State	2013	2014	2015	2016
United States	6,139,220	6,318,580	6,536,860	6,746,600
Alabama	76,650	74,480	73,190	72,480
Alaska	15,210	14,920	14,970	14,340
Arizona	123,410	127,760	133,650	138,560
Arkansas	30,660	32,050	33,350	33,180
California	849,510	880,850	NA	932,020
Colorado	154,020	160,700	167,400	175,370
Connecticut	78,850	79,000	79,490	80,330
Delaware	22,030	22,830	22,750	24,120
District of Columbia	65,300	68,820	69,880	75,520
Florida	250,330	257,450	271,840	284,030
Georgia	160,820	169,940	NA	196,370
Hawaii	21,140	20,900	21,060	21,760
Idaho	25,850	26,460	28,320	29,050
Illinois	226,850	235,380	245,330	260,160
Indiana	100,870	104,000	104,290	106,230
Iowa	52,440	53,440	52,790	53,580
Kansas	51,240	50,120	53,660	57,150
Kentucky	53,920	54,350	56,190	55,340
Louisiana	46,750	49,120	48,440	46,770
Maine	18,840	19,410	19,960	20,580
Maryland	186,780	190,080	193,810	199,860
Massachusetts	227,780	230,480	231,640	242,960
Michigan	207,800	219,630	228,140	238,120

State Indicators

State	2013	2014	2015	2016
Minnesota	133,580	140,190	143,620	149,360
Mississippi	24,320	24,860	25,440	25,280
Missouri	105,730	106,980	110,220	116,670
Montana	15,570	15,540	16,320	15,840
Nebraska	36,480	36,220	37,950	39,780
Nevada	26,850	26,890	28,200	29,460
New Hampshire	28,460	28,320	29,290	30,400
New Jersey	184,720	188,240	193,440	204,000
New Mexico	34,900	36,180	37,510	38,420
New York	333,710	348,740	368,920	378,600
North Carolina	173,960	181,030	187,210	199,300
North Dakota	12,520	12,970	12,960	14,020
Ohio	218,030	219,830	233,570	239,800
Oklahoma	51,900	52,910	55,170	54,380
Oregon	79,040	80,470	86,350	89,080
Pennsylvania	243,850	248,750	255,170	262,280
Rhode Island	20,740	21,210	21,550	22,000
South Carolina	65,140	67,300	68,380	71,190
South Dakota	12,770	13,220	13,870	14,160
Tennessee	NA	86,680	88,820	90,240
Texas	514,400	541,060	563,410	566,230
Utah	57,980	62,810	64,670	68,630
Vermont	12,920	13,280	13,710	13,390
Virginia	276,230	272,410	270,990	275,350
Washington	209,710	208,630	219,130	227,910
West Virginia	19,490	20,110	20,490	20,510

State Indicators

State	2013	2014	2015	2016
Wisconsin	106,210	112,540	117,720	124,000
Wyoming	NA	9,050	8,980	8,460
Puerto Rico	22,790	23,320	22,930	24,190

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	127,420,170	129,146,700	130,307,840	132,604,980	134,354,250	135,185,230	130,647,610	127,097,160	128,278,550	130,287,700
Alabama	1,817,240	1,851,040	1,872,600	1,912,220	1,931,970	1,945,300	1,863,620	1,807,480	1,809,420	1,824,400
Alaska	290,740	295,810	300,150	303,890	301,920	307,790	308,140	308,050	313,170	318,700
Arizona	2,275,410	2,370,810	2,437,100	2,574,150	2,648,000	2,637,830	2,479,120	2,367,120	2,380,200	2,414,340
Arkansas	1,118,690	1,133,800	1,142,370	1,166,840	1,172,760	1,176,050	1,147,660	1,135,560	1,139,670	1,155,020
California	14,460,860	14,598,250	14,723,900	15,065,750	15,202,530	15,212,610	14,532,640	14,001,730	14,038,950	14,303,630
Colorado	2,097,650	2,130,430	2,151,520	2,207,120	2,258,240	2,302,340	2,234,250	2,157,690	2,179,060	2,226,160
Connecticut	1,631,610	1,640,840	1,648,070	1,658,980	1,682,220	1,697,810	1,648,950	1,598,640	1,608,820	1,620,620
Delaware	403,650	413,940	417,550	424,270	425,960	425,210	412,570	397,730	403,430	405,750
District of Columbia	595,220	609,770	611,190	609,400	620,970	635,500	637,180	639,390	644,730	653,760
Florida	7,217,400	7,479,050	7,614,840	7,869,210	7,963,010	7,771,740	7,355,940	7,103,950	7,151,700	7,273,850
Georgia	3,770,430	3,848,740	3,904,020	4,001,580	4,058,370	4,068,270	3,889,160	3,744,740	3,779,250	3,815,530
Hawaii	557,400	573,890	583,630	599,130	610,310	612,420	587,810	571,630	577,220	588,210
Idaho	563,200	584,580	597,490	624,320	641,960	650,240	614,520	594,750	592,730	598,540
Illinois	5,719,150	5,739,250	5,767,100	5,826,660	5,894,670	5,910,630	5,704,240	5,528,420	5,574,180	5,640,740
Indiana	2,851,210	2,879,070	2,891,360	2,913,200	2,928,780	2,927,620	2,787,780	2,724,850	2,758,100	2,811,920
Iowa	1,413,220	1,433,570	1,446,550	1,470,240	1,488,360	1,502,600	1,471,130	1,438,510	1,449,110	1,470,740
Kansas	1,292,170	1,311,390	1,315,640	1,321,180	1,347,670	1,374,560	1,348,710	1,304,780	1,308,070	1,320,920
Kentucky	1,719,620	1,736,230	1,754,590	1,779,830	1,801,800	1,817,860	1,748,610	1,716,060	1,732,870	1,764,750
Louisiana	1,851,870	1,865,300	1,877,160	1,776,990	1,847,230	1,887,370	1,871,950	1,832,830	1,839,780	1,868,210
Maine	591,750	598,350	597,260	596,910	600,020	604,150	589,090	577,410	575,640	581,110
Maryland	2,448,580	2,477,280	2,497,220	2,531,180	2,551,910	2,561,530	2,503,410	2,462,470	2,480,670	2,510,680
Massachusetts	3,130,720	3,129,090	3,144,540	3,170,490	3,207,840	3,234,860	3,169,010	3,119,100	3,157,020	3,202,080
Michigan	4,310,420	4,324,840	4,334,870	4,294,260	4,210,550	4,142,750	3,893,900	3,755,890	3,829,000	3,918,120

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	2,591,720	2,625,060	2,635,370	2,682,940	2,687,740	2,704,860	2,627,640	2,562,450	2,595,450	2,641,110
Mississippi	1,089,350	1,101,680	1,108,540	1,113,000	1,128,980	1,138,210	1,096,890	1,070,820	1,073,100	1,080,420
Missouri	2,623,020	2,646,990	2,663,880	2,700,450	2,732,920	2,740,170	2,668,450	2,588,450	2,591,020	2,605,910
Montana	394,820	408,730	414,650	427,130	435,480	444,090	432,240	424,300	425,110	432,380
Nebraska	879,550	887,200	895,470	901,120	914,670	928,120	916,770	901,690	904,630	914,830
Nevada	1,086,110	1,154,440	1,191,640	1,257,860	1,285,470	1,278,230	1,179,860	1,113,530	1,112,780	1,127,160
New Hampshire	607,570	618,310	621,560	627,570	632,590	634,570	619,390	603,420	606,690	612,710
New Jersey	3,878,020	3,901,020	3,917,310	3,957,500	3,980,080	3,986,310	3,850,770	3,770,550	3,771,250	3,793,720
New Mexico	747,050	754,990	763,430	789,360	798,640	819,480	800,390	777,560	777,640	773,860
New York	8,236,200	8,299,910	8,333,460	8,387,750	8,515,960	8,633,580	8,487,020	8,344,020	8,427,560	8,542,280
North Carolina	3,702,170	3,770,700	3,809,690	3,892,670	4,013,460	4,063,420	3,896,750	3,772,780	3,814,860	3,878,800
North Dakota	314,620	324,430	328,520	335,740	341,970	350,360	353,630	355,710	371,630	403,290
Ohio	5,308,270	5,324,700	5,340,280	5,354,170	5,341,360	5,323,130	5,091,490	4,921,690	4,977,910	5,054,250
Oklahoma	1,416,640	1,436,380	1,455,940	1,503,430	1,528,890	1,557,750	1,525,330	1,483,760	1,498,260	1,529,900
Oregon	1,537,000	1,576,890	1,598,780	1,648,680	1,682,150	1,706,740	1,624,490	1,569,700	1,586,620	1,609,900
Pennsylvania	5,494,430	5,535,000	5,569,310	5,631,520	5,663,070	5,705,170	5,572,660	5,483,220	5,549,240	5,596,480
Rhode Island	477,320	480,290	479,810	482,550	485,870	478,420	458,760	448,150	450,980	453,020
South Carolina	1,764,170	1,792,190	1,802,740	1,840,190	1,877,950	1,892,690	1,802,900	1,746,820	1,772,880	1,796,550
South Dakota	364,970	371,010	373,500	381,230	389,400	395,960	392,890	387,590	392,670	398,680
Tennessee	2,614,830	2,665,060	2,686,580	2,718,410	2,739,230	2,755,800	2,625,140	2,569,420	2,602,320	2,657,280
Texas	9,248,660	9,306,600	9,424,510	9,760,960	10,061,750	10,391,420	10,289,240	10,089,870	10,304,370	10,579,400
Utah	1,043,500	1,077,210	1,099,230	1,151,020	1,206,180	1,230,320	1,185,770	1,148,520	1,165,980	1,200,850
Vermont	291,400	296,260	297,650	299,610	301,140	301,130	294,120	286,990	290,830	294,090
Virginia	3,412,070	3,494,250	3,535,500	3,608,430	3,645,330	3,670,980	3,589,520	3,527,350	3,553,360	3,597,100
Washington	2,560,190	2,614,640	2,653,320	2,736,910	2,811,700	2,868,910	2,789,670	2,693,220	2,720,660	2,764,080
West Virginia	680,200	692,840	697,390	710,560	713,230	717,740	704,310	688,170	700,250	710,540

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	2,687,400	2,717,970	2,727,430	2,744,210	2,768,830	2,776,690	2,689,710	2,608,740	2,645,180	2,673,280
Wyoming	240,730	246,670	251,590	262,260	273,170	283,980	282,450	269,910	272,570	278,040
Puerto Rico	962,000	1,022,610	1,026,290	1,031,650	NA	999,010	962,030	950,570	930,940	942,080

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2013	2014	2015	2016
United States	132,588,810	135,128,260	137,896,660	140,400,040
Alabama	1,844,080	1,857,530	1,883,310	1,912,990
Alaska	322,660	324,970	327,250	323,500
Arizona	2,475,660	2,526,990	2,587,070	2,652,990
Arkansas	1,152,600	1,158,790	1,176,130	1,191,320
California	14,714,530	15,119,730	15,496,600	15,966,580
Colorado	2,295,000	2,367,780	2,451,490	2,507,680
Connecticut	1,635,590	1,646,510	1,659,430	1,666,280
Delaware	412,140	424,330	433,840	440,760
District of Columbia	665,850	674,650	676,060	702,380
Florida	7,453,230	7,665,280	7,925,300	8,222,030
Georgia	3,879,660	3,983,250	4,107,960	4,214,410
Hawaii	602,200	612,580	619,960	632,120
Idaho	613,000	628,140	642,700	663,490
Illinois	5,704,700	5,765,880	5,852,710	5,903,820
Indiana	2,854,250	2,905,170	2,947,380	2,991,260
Iowa	1,491,600	1,512,740	1,526,950	1,534,910
Kansas	1,336,460	1,359,500	1,371,630	1,374,180
Kentucky	1,782,820	1,808,010	1,838,220	1,869,650
Louisiana	1,885,310	1,915,800	1,939,300	1,922,170
Maine	582,430	586,390	591,520	596,390
Maryland	2,534,480	2,557,510	2,596,630	2,640,900
Massachusetts	3,257,870	3,322,500	3,396,840	3,459,910
Michigan	3,998,790	4,073,730	4,146,600	4,212,090

State Indicators

State	2013	2014	2015	2016
Minnesota	2,688,580	2,730,020	2,772,240	2,810,400
Mississippi	1,083,560	1,094,070	1,106,550	1,117,280
Missouri	2,639,120	2,673,640	2,712,240	2,757,850
Montana	439,110	443,330	447,180	454,740
Nebraska	927,150	942,950	953,710	968,000
Nevada	1,151,970	1,189,610	1,232,800	1,270,930
New Hampshire	620,190	627,000	635,360	645,050
New Jersey	3,821,070	3,869,260	3,906,800	3,955,350
New Mexico	783,980	788,000	798,150	805,440
New York	8,635,400	8,810,950	8,984,890	9,097,650
North Carolina	3,947,030	4,030,880	4,125,070	4,231,020
North Dakota	422,930	440,420	447,820	425,200
Ohio	5,125,850	5,200,880	5,280,850	5,337,890
Oklahoma	1,558,860	1,577,330	1,597,130	1,586,890
Oregon	1,640,300	1,683,470	1,735,220	1,790,940
Pennsylvania	5,616,820	5,653,840	5,709,480	5,747,020
Rhode Island	456,100	463,930	471,290	475,190
South Carolina	1,826,120	1,876,480	1,928,140	1,979,820
South Dakota	402,990	409,250	413,260	417,520
Tennessee	2,700,050	2,749,480	2,814,230	2,893,040
Texas	10,913,950	11,228,940	11,572,540	11,745,250
Utah	1,242,690	1,280,660	1,324,460	1,374,900
Vermont	298,290	301,050	303,550	304,670
Virginia	3,631,440	3,648,490	3,682,450	3,760,550
Washington	2,827,200	2,898,350	2,983,930	3,067,110
West Virginia	709,430	707,720	707,000	697,440

State Indicators

State	2013	2014	2015	2016
Wisconsin	2,704,840	2,727,860	2,771,600	2,805,010
Wyoming	278,910	282,690	283,830	276,120
Puerto Rico	927,460	902,930	890,760	883,360
Science and Engineering Indicators 2018				

State Indicators

S-33 Employed Science, Engineering, and Health Doctorate Holders as a Percentage of the Workforce

Description

This indicator measures the concentration of science, engineering, and health (SEH) doctorate holders among a state's workforce and represents a state's ability to attract and retain highly trained scientists and engineers. These individuals often conduct R&D, manage R&D activities, or are otherwise engaged in knowledge-intensive activities. A high value for this indicator in a state suggests employment opportunities for individuals with highly advanced training in SEH fields. States in the top quartile for this indicator tend to contain major research laboratories, research universities, or research-intensive industries.

Data on employed SEH doctorate holders are collected by the Survey of Doctorate Recipients. Data include those with research doctoral degrees in computer and mathematical sciences; the biological, agricultural, or environmental life sciences; physical sciences; social sciences; psychology; engineering; and health fields. Doctorate holders with degrees from both public and private institutions are included. SEH doctorate data exclude individuals with clinical (i.e., non-research) doctorates, those trained by foreign institutions, and those older than 75. SEH doctorate holders are assigned to a state based on where they work.

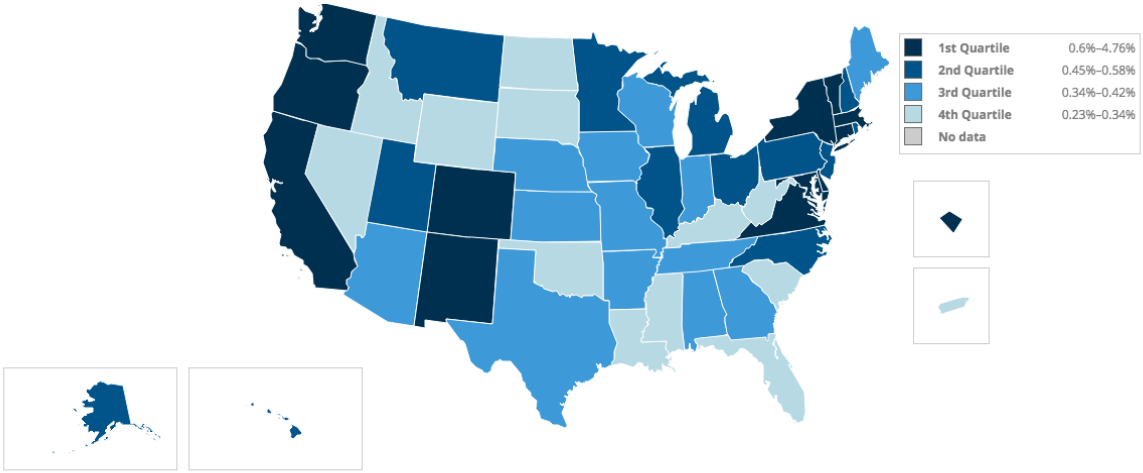
Whereas employment data for SEH doctorates come from the National Center for Science and Engineering Statistics within the National Science Foundation, the data on total employed workforce are developed by the Bureau of Labor Statistics, which assigns workers to a state based on where they live. Workforce data represent annual estimates of the employed civilian labor force. The workforce data also include those older than 75. Because these values are estimates, small differences in the values of the indicator between states or across time are generally not meaningful.

Data sources: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients; U.S. Department of Labor, Bureau of Labor Statistics, Local Area Unemployment Statistics.

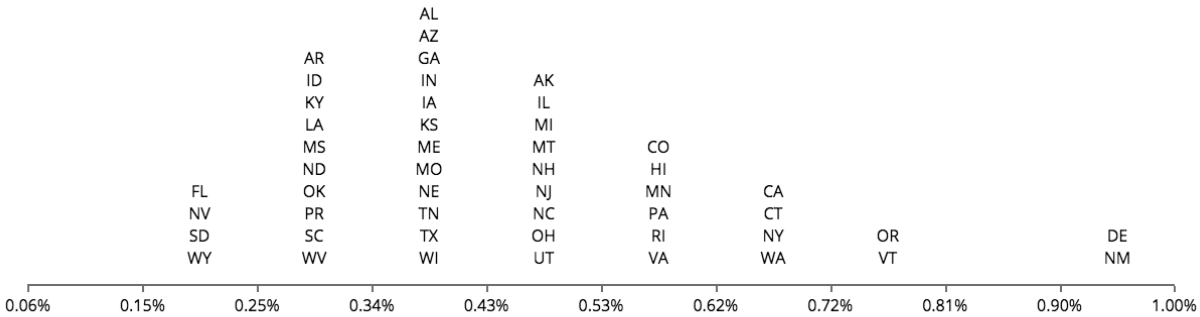
State Indicators

S-33 Employed Science, Engineering, and Health Doctorate Holders as a Percentage of the Workforce

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

Employed Science, Engineering, and Health Doctorate Holders as a Percentage of the Workforce

(Percent)

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
United States	0.39	0.41	0.42	0.43	0.43	0.44	0.49	0.50	0.52
Alabama	0.33	0.28	0.27	0.29	0.28	0.29	0.34	0.33	0.36
Alaska	0.38	0.40	0.40	0.37	0.34	0.36	0.42	0.41	0.49
Arizona	0.29	0.28	0.29	0.29	0.29	0.30	0.32	0.35	0.34
Arkansas	0.20	0.23	0.21	0.23	0.22	0.18	0.23	0.23	0.34
California	0.48	0.50	0.50	0.54	0.52	0.57	0.64	0.63	0.68
Colorado	0.50	0.50	0.51	0.52	0.52	0.51	0.60	0.59	0.62
Connecticut	0.53	0.58	0.56	0.58	0.59	0.60	0.65	0.63	0.65
Delaware	1.00	0.96	0.87	0.75	0.73	0.78	0.75	0.82	0.95
District of Columbia	4.54	4.83	4.88	4.83	4.48	4.24	4.75	4.35	4.76
Florida	0.19	0.20	0.21	0.21	0.20	0.22	0.25	0.25	0.24
Georgia	0.26	0.28	0.29	0.29	0.29	0.30	0.36	0.36	0.38
Hawaii	0.45	0.44	0.44	0.53	0.46	0.52	0.50	0.55	0.53
Idaho	0.34	0.33	0.35	0.38	0.39	0.39	0.40	0.40	0.33
Illinois	0.35	0.36	0.36	0.38	0.39	0.39	0.43	0.42	0.46
Indiana	0.25	0.29	0.32	0.32	0.32	0.34	0.38	0.39	0.39
Iowa	0.27	0.28	0.28	0.30	0.31	0.32	0.36	0.35	0.39
Kansas	0.28	0.26	0.30	0.30	0.30	0.30	0.29	0.32	0.36
Kentucky	0.23	0.22	0.25	0.26	0.26	0.25	0.28	0.29	0.29
Louisiana	0.28	0.28	0.28	0.29	0.29	0.26	0.28	0.27	0.28
Maine	0.34	0.33	0.31	0.32	0.35	0.35	0.38	0.39	0.40
Maryland	0.80	0.84	0.83	0.92	0.92	0.98	1.05	1.12	1.15
Massachusetts	0.73	0.84	0.89	0.94	1.00	1.07	1.16	1.20	1.34

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Michigan	0.32	0.34	0.36	0.37	0.38	0.37	0.43	0.43	0.46
Minnesota	0.38	0.43	0.42	0.41	0.43	0.46	0.50	0.50	0.53
Mississippi	0.25	0.25	0.26	0.26	0.27	0.27	0.28	0.29	0.28
Missouri	0.34	0.33	0.32	0.32	0.32	0.35	0.39	0.39	0.41
Montana	0.39	0.34	0.32	0.39	0.42	0.43	0.52	0.48	0.48
Nebraska	0.34	0.29	0.31	0.30	0.32	0.29	0.33	0.30	0.42
Nevada	0.18	0.19	0.19	0.19	0.21	0.22	0.26	0.21	0.23
New Hampshire	0.36	0.35	0.37	0.39	0.35	0.41	0.43	0.41	0.45
New Jersey	0.51	0.53	0.55	0.51	0.49	0.50	0.56	0.55	0.52
New Mexico	0.97	0.97	0.95	0.97	0.93	0.86	0.93	0.95	0.92
New York	0.48	0.49	0.50	0.52	0.51	0.54	0.58	0.60	0.64
North Carolina	0.36	0.40	0.42	0.44	0.45	0.47	0.50	0.50	0.52
North Dakota	0.39	0.38	0.33	0.34	0.39	0.36	0.41	0.38	0.34
Ohio	0.34	0.37	0.36	0.38	0.37	0.37	0.41	0.42	0.45
Oklahoma	0.30	0.26	0.27	0.29	0.27	0.27	0.30	0.28	0.29
Oregon	0.38	0.39	0.41	0.46	0.46	0.48	0.51	0.57	0.75
Pennsylvania	0.42	0.44	0.44	0.48	0.48	0.49	0.54	0.54	0.58
Rhode Island	0.49	0.50	0.51	0.60	0.55	0.53	0.60	0.59	0.58
South Carolina	0.26	0.25	0.28	0.28	0.30	0.32	0.33	0.32	0.29
South Dakota	0.28	0.25	0.25	0.25	0.25	0.30	0.31	0.23	0.24
Tennessee	0.32	0.30	0.33	0.32	0.35	0.35	0.41	0.43	0.38
Texas	0.30	0.32	0.32	0.33	0.33	0.36	0.38	0.36	0.40
Utah	0.46	0.42	0.43	0.37	0.43	0.42	0.47	0.48	0.48
Vermont	0.56	0.54	0.54	0.53	0.49	0.53	0.53	0.54	0.72
Virginia	0.46	0.48	0.49	0.52	0.51	0.54	0.57	0.58	0.60
Washington	0.47	0.45	0.52	0.53	0.54	0.54	0.60	0.63	0.65

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
West Virginia	0.27	0.27	0.25	0.27	0.26	0.26	0.30	0.31	0.30
Wisconsin	0.30	0.30	0.30	0.29	0.33	0.34	0.38	0.39	0.39
Wyoming	0.36	0.30	0.32	0.25	0.27	0.25	0.28	0.38	0.24
Puerto Rico	0.06	0.11	0.12	0.14	0.13	0.17	0.22	0.25	0.31

Note(s):
Employed SEH doctorate holders are classified by employment location; 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, Survey of Doctorate Recipients (various years), data as of August 2017; 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: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

Employed SEH doctorate holders

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
United States	517,780	552,950	574,300	592,840	620,700	649,800	690,800	718,100	783,850
Alabama	6,610	5,750	5,330	5,730	5,900	6,000	6,600	6,600	7,350
Alaska	1,110	1,200	1,200	1,140	1,110	1,200	1,400	1,400	1,650
Arizona	6,280	6,500	7,070	7,500	8,410	8,800	9,000	9,900	10,150
Arkansas	2,320	2,700	2,560	2,790	2,840	2,400	2,900	2,800	4,300
California	70,490	77,100	80,870	86,550	87,370	95,700	102,300	106,600	120,200
Colorado	10,740	11,250	11,780	12,220	13,150	13,100	14,800	15,200	16,750
Connecticut	8,770	9,800	9,490	9,780	10,330	10,600	11,300	10,800	11,700
Delaware	3,710	3,700	3,540	3,000	3,110	3,300	3,000	3,400	4,200
District of Columbia	11,800	13,850	14,200	13,800	13,330	13,100	14,900	14,900	17,200
Florida	13,330	14,650	15,740	16,000	17,630	18,600	20,600	22,200	22,200
Georgia	9,880	11,050	11,990	12,220	12,970	13,500	15,200	15,800	16,950
Hawaii	2,550	2,500	2,580	3,040	2,850	3,200	3,000	3,400	3,450
Idaho	2,030	2,050	2,230	2,450	2,840	2,800	2,800	2,900	2,500
Illinois	21,260	22,300	22,110	22,400	24,110	24,200	25,300	24,900	28,050
Indiana	7,570	8,800	9,580	9,590	9,870	10,300	10,900	11,400	12,200
Iowa	4,120	4,350	4,390	4,660	4,890	5,200	5,600	5,600	6,400
Kansas	3,770	3,550	3,970	4,060	4,250	4,300	4,000	4,500	5,100
Kentucky	4,110	4,150	4,590	4,720	4,960	4,800	5,100	5,400	5,350
Louisiana	5,360	5,450	5,290	5,420	5,480	5,200	5,300	5,200	5,700
Maine	2,150	2,150	1,990	2,110	2,350	2,300	2,400	2,600	2,600
Maryland	21,020	22,350	22,730	25,280	26,160	28,100	29,800	32,600	34,250
Massachusetts	23,330	27,250	29,100	30,220	32,400	35,000	36,900	39,300	45,750
Michigan	15,050	16,600	17,380	17,130	17,900	16,700	18,000	18,700	20,850

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Minnesota	9,810	11,400	11,410	11,110	11,800	12,600	13,700	14,100	15,300
Mississippi	3,000	3,100	3,170	3,120	3,310	3,300	3,300	3,400	3,350
Missouri	9,490	9,400	9,280	9,080	9,300	10,000	10,700	11,100	12,100
Montana	1,690	1,500	1,440	1,740	1,990	2,100	2,400	2,300	2,400
Nebraska	3,010	2,650	2,890	2,820	2,970	2,800	3,100	2,900	4,150
Nevada	1,620	1,850	2,030	2,070	2,620	2,800	3,000	2,600	3,000
New Hampshire	2,230	2,300	2,470	2,640	2,470	2,900	3,000	2,900	3,200
New Jersey	20,440	21,700	22,740	20,980	20,810	21,300	23,000	23,000	22,200
New Mexico	7,480	7,650	7,750	8,120	8,300	7,800	8,000	8,200	7,950
New York	40,080	42,700	43,980	44,890	45,850	49,000	50,900	53,600	58,150
North Carolina	13,730	15,700	16,760	17,380	18,910	20,100	20,600	21,700	23,550
North Dakota	1,350	1,250	1,080	1,130	1,380	1,300	1,500	1,500	1,350
Ohio	18,700	20,200	20,070	20,870	20,540	20,800	21,700	22,100	24,300
Oklahoma	4,580	4,150	4,360	4,640	4,420	4,500	4,900	4,700	5,000
Oregon	6,210	6,650	7,040	7,830	8,270	8,700	9,100	10,000	14,050
Pennsylvania	23,940	25,350	26,140	27,820	29,120	30,000	31,300	32,000	35,300
Rhode Island	2,450	2,600	2,640	3,170	3,020	2,800	3,000	3,000	3,000
South Carolina	4,780	4,700	5,130	5,210	5,910	6,300	6,400	6,400	6,100
South Dakota	1,060	1,000	1,000	1,020	1,050	1,300	1,300	1,000	1,050
Tennessee	8,520	8,100	8,980	8,840	9,980	10,100	11,500	12,200	11,000
Texas	28,570	31,250	32,490	33,280	36,000	39,900	42,400	43,700	49,400
Utah	4,800	4,550	4,820	4,240	5,520	5,600	5,900	6,500	6,800
Vermont	1,750	1,750	1,750	1,770	1,690	1,800	1,800	1,800	2,400
Virginia	15,250	16,600	17,460	18,880	19,850	21,300	22,000	23,100	24,300
Washington	13,360	13,250	14,760	15,430	16,920	17,700	18,900	20,400	21,600
West Virginia	1,980	2,050	1,890	1,980	2,000	2,000	2,200	2,300	2,150

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Wisconsin	8,460	8,450	8,720	8,390	9,530	9,900	10,600	11,200	11,450
Wyoming	860	750	840	650	730	700	800	1,100	700
Puerto Rico	660	1,250	1,410	1,710	1,690	2,000	2,300	2,500	3,100

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

State Indicators

S-34 Life Scientists as a Percentage of All Occupations

Description

This indicator represents the percentage of life scientists in a state's workforce. Life scientists are identified from standard occupational codes that include agricultural and food scientists, biological scientists, conservation scientists and foresters, medical scientists, and postsecondary teachers in these fields. A high share of life scientists in a state's workforce could indicate a robust cluster of life sciences industries such as pharmaceutical and medicine manufacturing. States in the top quartile for this indicator also tend to contain agriculture-intensive industries.

Data on individuals in life sciences occupations and total occupations come from the Bureau of Labor Statistics (BLS) Occupational Employment Statistics (OES) Survey, a survey of workplaces that assigns workers to a state based on where they work. Estimates are developed by BLS from data provided by state workforce agencies. The OES survey covers all full-time and part-time wage and salary workers in nonfarm industries. The survey does not cover the self-employed, owners and partners in unincorporated firms, household workers, or unpaid family workers.

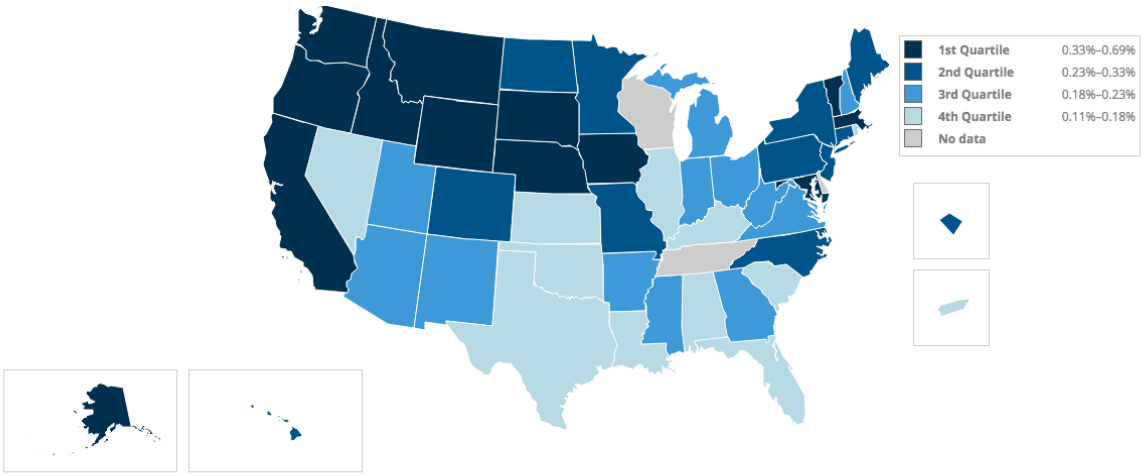
Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

Data source: U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics Survey.

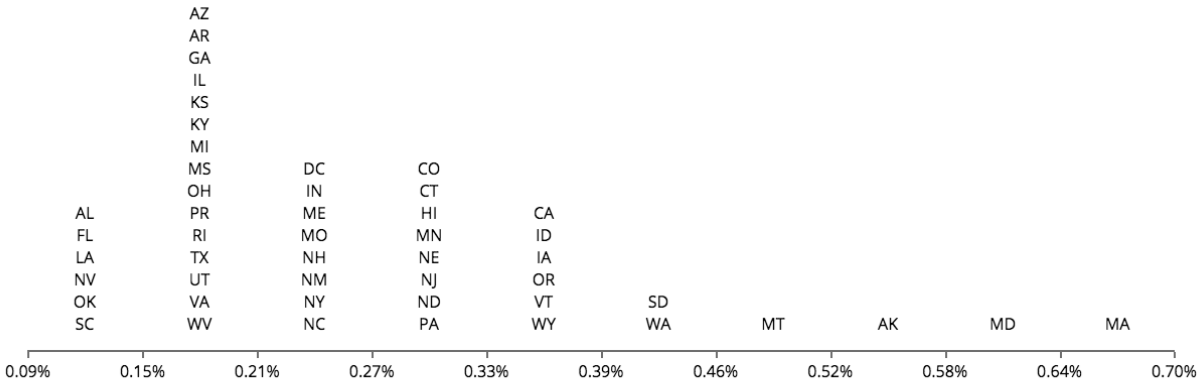
State Indicators

S-34 Life Scientists as a Percentage of All Occupations

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

Life Scientists as a Percentage of All Occupations

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	0.21	0.22	0.22	0.22	0.23	0.24	0.25	0.25	0.25	0.25
Alabama	0.12	0.13	0.13	0.15	0.22	0.23	0.25	0.19	0.16	0.17
Alaska	0.57	0.59	0.59	0.61	0.71	0.69	0.69	0.70	0.70	0.70
Arizona	0.13	0.12	0.11	0.11	0.13	0.14	NA	0.19	NA	0.20
Arkansas	0.14	0.14	0.13	0.13	0.16	0.17	0.22	0.21	0.21	0.22
California	0.23	0.26	0.26	0.27	NA	NA	0.38	0.39	0.41	0.39
Colorado	NA	NA	0.24	0.21	0.21	0.22	NA	NA	NA	NA
Connecticut	0.29	0.30	0.31	0.29	0.27	NA	0.30	0.28	0.28	0.27
Delaware	0.31	0.29	0.27	0.33	0.33	0.39	0.32	0.26	0.28	0.31
District of Columbia	0.39	0.42	0.45	0.40	0.37	0.30	0.29	0.24	0.29	0.27
Florida	0.12	0.13	0.13	0.12	0.12	0.13	0.15	NA	NA	0.15
Georgia	0.19	0.14	0.14	0.13	0.12	0.12	NA	0.13	0.15	0.15
Hawaii	0.20	0.28	0.28	0.30	0.34	0.31	0.34	0.34	0.32	0.32
Idaho	0.37	0.39	0.39	0.36	0.36	0.27	0.31	0.37	0.39	0.37
Illinois	0.16	0.16	0.18	0.16	0.14	0.14	0.14	0.16	0.16	0.15
Indiana	0.18	0.19	0.19	NA	0.20	0.20	0.19	0.19	0.20	0.19
Iowa	0.19	0.22	0.22	0.24	0.28	0.29	0.31	0.29	0.32	0.36
Kansas	0.18	0.17	0.18	NA	0.19	0.24	0.26	0.25	0.23	0.24
Kentucky	0.19	0.15	NA	0.15	0.16	0.16	0.17	0.17	0.18	0.19
Louisiana	0.11	0.11	0.11	0.12	NA	NA	0.09	NA	NA	NA
Maine	0.18	0.18	0.19	0.19	0.20	0.20	0.25	0.25	0.30	NA
Maryland	NA	0.47	0.48	0.41	0.42	0.43	0.48	0.47	0.52	0.54
Massachusetts	0.36	0.36	0.38	0.44	0.45	NA	0.57	0.58	0.61	0.63

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	NA	0.15	0.14	NA	NA	NA	NA	NA	NA	0.15
Minnesota	0.26	0.27	0.28	0.29	0.30	0.31	0.35	0.36	NA	0.39
Mississippi	0.23	0.19	0.20	0.21	0.22	0.24	0.25	0.23	0.23	0.24
Missouri	0.19	0.21	0.22	0.21	NA	NA	NA	0.19	NA	0.22
Montana	0.46	0.45	0.44	0.47	0.52	0.51	0.53	0.60	0.62	0.62
Nebraska	0.26	0.28	0.29	0.30	0.24	0.23	0.22	0.24	0.24	0.27
Nevada	0.10	0.09	0.09	0.09	0.10	0.09	0.10	0.11	0.12	0.12
New Hampshire	0.10	NA	0.15	0.15	0.21	0.21	0.21	0.23	0.23	0.23
New Jersey	0.24	0.28	0.24	0.22	0.23	0.29	0.31	0.33	0.27	0.25
New Mexico	NA	NA	NA	0.25	NA	0.21	0.23	0.23	0.21	NA
New York	NA	0.18	0.18	0.17	0.16	0.16	0.18	0.19	0.18	NA
North Carolina	NA	NA	0.25	NA	NA	0.28	0.32	0.36	0.35	0.30
North Dakota	0.34	0.32	0.33	0.33	0.34	0.31	0.32	0.30	0.32	0.30
Ohio	NA	NA	NA	0.12	0.14	0.15	0.17	0.16	0.15	0.14
Oklahoma	0.27	0.22	0.22	0.21	0.19	0.18	0.16	0.17	0.12	0.13
Oregon	0.36	0.34	0.33	0.32	0.34	0.35	0.39	0.40	0.35	0.36
Pennsylvania	0.25	0.26	NA	NA	0.28	0.30	0.34	NA	NA	0.25
Rhode Island	0.23	0.23	0.19	0.23	0.26	0.22	0.22	NA	0.28	0.28
South Carolina	0.12	0.14	0.13	0.13	0.11	0.11	0.12	0.12	NA	NA
South Dakota	0.34	0.33	0.32	0.34	0.38	0.40	0.41	0.43	0.39	0.40
Tennessee	0.11	0.09	NA	0.10	0.11	0.11	0.11	0.11	NA	NA
Texas	0.29	0.32	0.32	0.27	NA	0.21	0.19	NA	NA	0.18
Utah	0.29	0.27	0.28	0.29	0.31	0.29	0.28	0.21	NA	NA
Vermont	0.24	0.27	0.29	0.31	0.36	0.28	0.25	0.28	0.32	0.32
Virginia	NA	NA	0.17	0.17	0.15	0.16	NA	NA	0.17	0.17
Washington	0.41	0.40	0.40	NA	0.44	0.40	0.43	0.45	0.43	0.43

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	0.17	0.19	0.19	0.19	0.18	0.17	0.16	0.20	0.18	0.20
Wisconsin	0.24	0.24	0.24	0.25	0.29	0.31	0.32	0.29	0.27	0.29
Wyoming	0.38	0.43	0.43	0.41	0.41	0.41	0.44	0.42	0.42	0.42
Puerto Rico	0.18	0.17	0.19	0.17	NA	0.16	0.17	0.17	0.17	0.18

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Science and Engineering Indicators 2018

State Indicators

Life Scientists as a Percentage of All Occupations

(Percent)

State	2013	2014	2015	2016
United States	0.26	0.26	0.25	0.25
Alabama	0.21	0.20	0.15	0.11
Alaska	0.60	0.58	0.57	0.56
Arizona	0.21	NA	0.19	0.18
Arkansas	0.22	0.22	0.21	0.18
California	0.41	0.39	0.36	0.36
Colorado	0.28	0.28	0.27	0.27
Connecticut	NA	0.27	0.30	0.28
Delaware	0.29	0.23	NA	NA
District of Columbia	NA	NA	0.29	0.26
Florida	0.15	0.14	0.13	0.12
Georgia	0.14	NA	0.19	0.19
Hawaii	0.33	0.33	0.32	0.31
Idaho	0.40	0.38	0.40	0.38
Illinois	NA	0.13	0.15	0.17
Indiana	0.23	0.24	0.23	0.23
Iowa	0.40	0.40	0.36	0.35
Kansas	0.23	0.13	0.14	0.18
Kentucky	0.20	0.18	0.17	0.17
Louisiana	0.12	0.14	0.13	0.12
Maine	0.28	0.27	0.27	0.24
Maryland	0.56	0.58	0.58	0.59
Massachusetts	0.67	0.72	0.68	0.69

State Indicators

State	2013	2014	2015	2016
Michigan	0.15	0.18	0.20	0.21
Minnesota	0.41	0.37	0.37	0.32
Mississippi	0.21	0.22	0.21	0.21
Missouri	0.23	0.23	0.21	0.25
Montana	0.56	0.52	0.52	0.49
Nebraska	0.26	0.30	0.31	0.33
Nevada	0.11	0.11	0.12	0.11
New Hampshire	0.20	0.21	0.20	0.22
New Jersey	0.24	0.27	0.30	0.32
New Mexico	0.26	NA	0.24	0.22
New York	NA	0.23	0.24	0.23
North Carolina	0.32	0.32	0.29	0.25
North Dakota	0.32	0.33	0.35	0.33
Ohio	0.15	0.16	NA	0.19
Oklahoma	0.13	0.15	0.15	0.13
Oregon	0.34	0.37	0.37	0.38
Pennsylvania	0.30	0.28	0.29	0.28
Rhode Island	0.23	0.19	0.20	0.15
South Carolina	NA	0.13	0.12	0.12
South Dakota	0.42	0.44	0.44	0.42
Tennessee	NA	0.16	0.15	NA
Texas	NA	0.16	0.15	0.16
Utah	0.21	0.22	0.22	0.21
Vermont	0.32	0.29	0.36	0.36
Virginia	NA	NA	NA	0.20
Washington	0.42	0.40	0.39	0.40

State Indicators

State	2013	2014	2015	2016
West Virginia	0.17	0.16	0.15	0.18
Wisconsin	0.29	0.25	0.24	NA
Wyoming	0.40	0.38	0.36	0.37
Puerto Rico	0.21	0.19	0.18	0.16

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Life scientists

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	272,510	286,130	290,950	291,980	304,720	319,520	329,000	323,920	324,380	328,040
Alabama	2,250	2,380	2,350	2,810	4,190	4,460	4,690	3,510	2,980	3,160
Alaska	1,650	1,750	1,770	1,860	2,150	2,120	2,120	2,160	2,200	2,220
Arizona	2,900	2,870	2,700	2,790	3,340	3,590	NA	4,610	NA	4,780
Arkansas	1,530	1,540	1,530	1,490	1,890	2,040	2,500	2,340	2,410	2,510
California	33,370	37,380	37,640	40,030	NA	NA	55,590	55,200	57,020	56,160
Colorado	NA	NA	5,120	4,610	4,810	5,120	NA	NA	NA	NA
Connecticut	4,710	4,910	5,050	4,830	4,620	NA	5,020	4,550	4,460	4,430
Delaware	1,270	1,200	1,140	1,390	1,420	1,650	1,320	1,040	1,130	1,250
District of Columbia	2,320	2,560	2,740	2,460	2,320	1,890	1,870	1,530	1,880	1,740
Florida	8,530	9,700	10,070	9,510	9,720	10,270	10,820	NA	NA	10,880
Georgia	7,270	5,290	5,420	5,350	4,930	4,740	NA	4,960	5,630	5,610
Hawaii	1,140	1,610	1,620	1,780	2,050	1,890	2,010	1,950	1,860	1,910
Idaho	2,060	2,300	2,330	2,260	2,340	1,760	1,910	2,190	2,310	2,230
Illinois	9,020	9,100	10,170	9,470	8,390	8,180	8,270	8,720	8,860	8,260
Indiana	5,020	5,430	5,440	NA	5,900	5,730	5,370	5,300	5,420	5,250
Iowa	2,680	3,090	3,190	3,560	4,230	4,330	4,510	4,110	4,670	5,350
Kansas	2,390	2,220	2,370	NA	2,600	3,340	3,460	3,200	3,060	3,130
Kentucky	3,200	2,540	NA	2,720	2,920	2,840	2,910	2,870	3,160	3,280
Louisiana	1,990	2,060	2,070	2,050	NA	NA	1,770	NA	NA	NA
Maine	1,090	1,100	1,160	1,160	1,220	1,220	1,470	1,470	1,710	NA
Maryland	NA	11,630	11,880	10,300	10,800	11,000	12,060	11,550	12,850	13,670
Massachusetts	11,420	11,150	11,960	14,030	14,320	NA	17,990	18,030	19,170	20,290
Michigan	NA	6,500	6,090	NA	NA	NA	NA	NA	NA	6,030

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	6,860	7,140	7,440	7,660	7,960	8,510	9,080	9,200	NA	10,180
Mississippi	2,500	2,130	2,260	2,390	2,430	2,730	2,690	2,420	2,500	2,610
Missouri	4,880	5,480	5,760	5,680	NA	NA	NA	4,900	NA	5,700
Montana	1,810	1,830	1,820	1,990	2,280	2,270	2,280	2,530	2,650	2,700
Nebraska	2,330	2,500	2,570	2,690	2,200	2,110	2,060	2,160	2,190	2,450
Nevada	1,120	1,060	1,100	1,090	1,260	1,150	1,180	1,280	1,370	1,370
New Hampshire	610	NA	940	910	1,320	1,320	1,300	1,410	1,420	1,430
New Jersey	9,240	10,930	9,300	8,840	9,330	11,550	12,010	12,430	10,310	9,430
New Mexico	NA	NA	NA	2,000	NA	1,740	1,860	1,750	1,670	NA
New York	NA	15,190	14,680	14,310	13,720	13,990	14,860	16,060	15,450	NA
North Carolina	NA	NA	9,560	NA	NA	11,560	12,600	13,720	13,510	11,590
North Dakota	1,070	1,050	1,090	1,100	1,150	1,090	1,120	1,080	1,200	1,210
Ohio	NA	NA	NA	6,500	7,340	8,240	8,410	7,660	7,410	7,280
Oklahoma	3,820	3,220	3,140	3,190	2,960	2,790	2,480	2,490	1,750	1,960
Oregon	5,560	5,370	5,220	5,330	5,650	6,030	6,380	6,210	5,600	5,720
Pennsylvania	13,670	14,350	NA	NA	16,040	17,150	18,930	NA	NA	13,910
Rhode Island	1,100	1,120	900	1,090	1,250	1,050	1,010	NA	1,270	1,250
South Carolina	2,170	2,510	2,410	2,360	2,000	2,090	2,090	2,160	NA	NA
South Dakota	1,240	1,240	1,200	1,290	1,480	1,600	1,620	1,650	1,540	1,590
Tennessee	2,820	2,480	NA	2,620	2,900	2,900	2,790	2,880	NA	NA
Texas	26,950	29,430	30,580	26,450	NA	22,030	19,260	NA	NA	18,720
Utah	3,040	2,940	3,090	3,300	3,710	3,580	3,280	2,360	NA	NA
Vermont	700	790	870	920	1,090	830	740	790	930	940
Virginia	NA	NA	6,010	6,110	5,300	5,920	NA	NA	5,980	6,240
Washington	10,380	10,470	10,490	NA	12,290	11,600	12,090	12,220	11,630	11,920
West Virginia	1,150	1,300	1,310	1,370	1,260	1,210	1,100	1,370	1,280	1,390

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	6,470	6,480	6,450	6,870	8,020	8,630	8,480	7,690	7,120	7,830
Wyoming	910	1,060	1,080	1,070	1,110	1,170	1,230	1,130	1,150	1,180
Puerto Rico	1,690	1,770	1,930	1,800	NA	1,600	1,610	1,650	1,540	1,710

NA not available

Science and Engineering Indicators 2018

State Indicators

Life scientists

State	2013	2014	2015	2016
United States	344,710	348,580	349,960	354,820
Alabama	3,880	3,660	2,750	2,030
Alaska	1,940	1,900	1,880	1,820
Arizona	5,090	NA	4,870	4,690
Arkansas	2,570	2,530	2,430	2,110
California	60,870	58,330	56,470	58,020
Colorado	6,370	6,740	6,650	6,850
Connecticut	NA	4,490	5,030	4,630
Delaware	1,200	970	NA	NA
District of Columbia	NA	NA	1,940	1,860
Florida	10,890	10,360	10,190	10,090
Georgia	5,510	NA	7,670	7,830
Hawaii	1,970	2,030	2,010	1,990
Idaho	2,430	2,400	2,560	2,500
Illinois	NA	7,540	8,870	10,120
Indiana	6,460	6,970	6,680	6,860
Iowa	5,910	5,980	5,430	5,340
Kansas	3,120	1,830	1,930	2,420
Kentucky	3,510	3,280	3,150	3,140
Louisiana	2,270	2,660	2,430	2,250
Maine	1,630	1,610	1,600	1,460
Maryland	14,190	14,950	15,040	15,630
Massachusetts	21,900	23,990	22,990	23,860
Michigan	6,120	7,170	8,310	8,770

State Indicators

State	2013	2014	2015	2016
Minnesota	11,000	10,160	10,130	9,040
Mississippi	2,230	2,400	2,330	2,320
Missouri	6,150	6,080	5,630	6,840
Montana	2,470	2,290	2,310	2,240
Nebraska	2,390	2,820	2,990	3,190
Nevada	1,300	1,330	1,460	1,380
New Hampshire	1,240	1,290	1,300	1,410
New Jersey	9,360	10,330	11,870	12,840
New Mexico	2,030	NA	1,920	1,810
New York	NA	20,430	21,240	21,230
North Carolina	12,750	13,030	11,910	10,670
North Dakota	1,370	1,450	1,550	1,390
Ohio	7,730	8,160	NA	10,140
Oklahoma	2,100	2,420	2,370	2,060
Oregon	5,630	6,150	6,340	6,850
Pennsylvania	16,990	15,770	16,460	16,170
Rhode Island	1,040	900	930	720
South Carolina	NA	2,440	2,240	2,300
South Dakota	1,680	1,810	1,810	1,770
Tennessee	NA	4,370	4,330	NA
Texas	NA	18,190	17,460	18,250
Utah	2,610	2,820	2,930	2,840
Vermont	940	880	1,090	1,110
Virginia	NA	NA	NA	7,700
Washington	11,740	11,580	11,760	12,140
West Virginia	1,220	1,110	1,070	1,270

State Indicators

State	2013	2014	2015	2016
Wisconsin	7,800	6,910	6,710	NA
Wyoming	1,120	1,080	1,020	1,010
Puerto Rico	1,950	1,750	1,560	1,370

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	127,420,170	129,146,700	130,307,840	132,604,980	134,354,250	135,185,230	130,647,610	127,097,160	128,278,550	130,287,700
Alabama	1,817,240	1,851,040	1,872,600	1,912,220	1,931,970	1,945,300	1,863,620	1,807,480	1,809,420	1,824,400
Alaska	290,740	295,810	300,150	303,890	301,920	307,790	308,140	308,050	313,170	318,700
Arizona	2,275,410	2,370,810	2,437,100	2,574,150	2,648,000	2,637,830	2,479,120	2,367,120	2,380,200	2,414,340
Arkansas	1,118,690	1,133,800	1,142,370	1,166,840	1,172,760	1,176,050	1,147,660	1,135,560	1,139,670	1,155,020
California	14,460,860	14,598,250	14,723,900	15,065,750	15,202,530	15,212,610	14,532,640	14,001,730	14,038,950	14,303,630
Colorado	2,097,650	2,130,430	2,151,520	2,207,120	2,258,240	2,302,340	2,234,250	2,157,690	2,179,060	2,226,160
Connecticut	1,631,610	1,640,840	1,648,070	1,658,980	1,682,220	1,697,810	1,648,950	1,598,640	1,608,820	1,620,620
Delaware	403,650	413,940	417,550	424,270	425,960	425,210	412,570	397,730	403,430	405,750
District of Columbia	595,220	609,770	611,190	609,400	620,970	635,500	637,180	639,390	644,730	653,760
Florida	7,217,400	7,479,050	7,614,840	7,869,210	7,963,010	7,771,740	7,355,940	7,103,950	7,151,700	7,273,850
Georgia	3,770,430	3,848,740	3,904,020	4,001,580	4,058,370	4,068,270	3,889,160	3,744,740	3,779,250	3,815,530
Hawaii	557,400	573,890	583,630	599,130	610,310	612,420	587,810	571,630	577,220	588,210
Idaho	563,200	584,580	597,490	624,320	641,960	650,240	614,520	594,750	592,730	598,540
Illinois	5,719,150	5,739,250	5,767,100	5,826,660	5,894,670	5,910,630	5,704,240	5,528,420	5,574,180	5,640,740
Indiana	2,851,210	2,879,070	2,891,360	2,913,200	2,928,780	2,927,620	2,787,780	2,724,850	2,758,100	2,811,920
Iowa	1,413,220	1,433,570	1,446,550	1,470,240	1,488,360	1,502,600	1,471,130	1,438,510	1,449,110	1,470,740
Kansas	1,292,170	1,311,390	1,315,640	1,321,180	1,347,670	1,374,560	1,348,710	1,304,780	1,308,070	1,320,920
Kentucky	1,719,620	1,736,230	1,754,590	1,779,830	1,801,800	1,817,860	1,748,610	1,716,060	1,732,870	1,764,750
Louisiana	1,851,870	1,865,300	1,877,160	1,776,990	1,847,230	1,887,370	1,871,950	1,832,830	1,839,780	1,868,210
Maine	591,750	598,350	597,260	596,910	600,020	604,150	589,090	577,410	575,640	581,110
Maryland	2,448,580	2,477,280	2,497,220	2,531,180	2,551,910	2,561,530	2,503,410	2,462,470	2,480,670	2,510,680
Massachusetts	3,130,720	3,129,090	3,144,540	3,170,490	3,207,840	3,234,860	3,169,010	3,119,100	3,157,020	3,202,080
Michigan	4,310,420	4,324,840	4,334,870	4,294,260	4,210,550	4,142,750	3,893,900	3,755,890	3,829,000	3,918,120

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	2,591,720	2,625,060	2,635,370	2,682,940	2,687,740	2,704,860	2,627,640	2,562,450	2,595,450	2,641,110
Mississippi	1,089,350	1,101,680	1,108,540	1,113,000	1,128,980	1,138,210	1,096,890	1,070,820	1,073,100	1,080,420
Missouri	2,623,020	2,646,990	2,663,880	2,700,450	2,732,920	2,740,170	2,668,450	2,588,450	2,591,020	2,605,910
Montana	394,820	408,730	414,650	427,130	435,480	444,090	432,240	424,300	425,110	432,380
Nebraska	879,550	887,200	895,470	901,120	914,670	928,120	916,770	901,690	904,630	914,830
Nevada	1,086,110	1,154,440	1,191,640	1,257,860	1,285,470	1,278,230	1,179,860	1,113,530	1,112,780	1,127,160
New Hampshire	607,570	618,310	621,560	627,570	632,590	634,570	619,390	603,420	606,690	612,710
New Jersey	3,878,020	3,901,020	3,917,310	3,957,500	3,980,080	3,986,310	3,850,770	3,770,550	3,771,250	3,793,720
New Mexico	747,050	754,990	763,430	789,360	798,640	819,480	800,390	777,560	777,640	773,860
New York	8,236,200	8,299,910	8,333,460	8,387,750	8,515,960	8,633,580	8,487,020	8,344,020	8,427,560	8,542,280
North Carolina	3,702,170	3,770,700	3,809,690	3,892,670	4,013,460	4,063,420	3,896,750	3,772,780	3,814,860	3,878,800
North Dakota	314,620	324,430	328,520	335,740	341,970	350,360	353,630	355,710	371,630	403,290
Ohio	5,308,270	5,324,700	5,340,280	5,354,170	5,341,360	5,323,130	5,091,490	4,921,690	4,977,910	5,054,250
Oklahoma	1,416,640	1,436,380	1,455,940	1,503,430	1,528,890	1,557,750	1,525,330	1,483,760	1,498,260	1,529,900
Oregon	1,537,000	1,576,890	1,598,780	1,648,680	1,682,150	1,706,740	1,624,490	1,569,700	1,586,620	1,609,900
Pennsylvania	5,494,430	5,535,000	5,569,310	5,631,520	5,663,070	5,705,170	5,572,660	5,483,220	5,549,240	5,596,480
Rhode Island	477,320	480,290	479,810	482,550	485,870	478,420	458,760	448,150	450,980	453,020
South Carolina	1,764,170	1,792,190	1,802,740	1,840,190	1,877,950	1,892,690	1,802,900	1,746,820	1,772,880	1,796,550
South Dakota	364,970	371,010	373,500	381,230	389,400	395,960	392,890	387,590	392,670	398,680
Tennessee	2,614,830	2,665,060	2,686,580	2,718,410	2,739,230	2,755,800	2,625,140	2,569,420	2,602,320	2,657,280
Texas	9,248,660	9,306,600	9,424,510	9,760,960	10,061,750	10,391,420	10,289,240	10,089,870	10,304,370	10,579,400
Utah	1,043,500	1,077,210	1,099,230	1,151,020	1,206,180	1,230,320	1,185,770	1,148,520	1,165,980	1,200,850
Vermont	291,400	296,260	297,650	299,610	301,140	301,130	294,120	286,990	290,830	294,090
Virginia	3,412,070	3,494,250	3,535,500	3,608,430	3,645,330	3,670,980	3,589,520	3,527,350	3,553,360	3,597,100
Washington	2,560,190	2,614,640	2,653,320	2,736,910	2,811,700	2,868,910	2,789,670	2,693,220	2,720,660	2,764,080
West Virginia	680,200	692,840	697,390	710,560	713,230	717,740	704,310	688,170	700,250	710,540

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	2,687,400	2,717,970	2,727,430	2,744,210	2,768,830	2,776,690	2,689,710	2,608,740	2,645,180	2,673,280
Wyoming	240,730	246,670	251,590	262,260	273,170	283,980	282,450	269,910	272,570	278,040
Puerto Rico	962,000	1,022,610	1,026,290	1,031,650	NA	999,010	962,030	950,570	930,940	942,080

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2013	2014	2015	2016
United States	132,588,810	135,128,260	137,896,660	140,400,040
Alabama	1,844,080	1,857,530	1,883,310	1,912,990
Alaska	322,660	324,970	327,250	323,500
Arizona	2,475,660	2,526,990	2,587,070	2,652,990
Arkansas	1,152,600	1,158,790	1,176,130	1,191,320
California	14,714,530	15,119,730	15,496,600	15,966,580
Colorado	2,295,000	2,367,780	2,451,490	2,507,680
Connecticut	1,635,590	1,646,510	1,659,430	1,666,280
Delaware	412,140	424,330	433,840	440,760
District of Columbia	665,850	674,650	676,060	702,380
Florida	7,453,230	7,665,280	7,925,300	8,222,030
Georgia	3,879,660	3,983,250	4,107,960	4,214,410
Hawaii	602,200	612,580	619,960	632,120
Idaho	613,000	628,140	642,700	663,490
Illinois	5,704,700	5,765,880	5,852,710	5,903,820
Indiana	2,854,250	2,905,170	2,947,380	2,991,260
Iowa	1,491,600	1,512,740	1,526,950	1,534,910
Kansas	1,336,460	1,359,500	1,371,630	1,374,180
Kentucky	1,782,820	1,808,010	1,838,220	1,869,650
Louisiana	1,885,310	1,915,800	1,939,300	1,922,170
Maine	582,430	586,390	591,520	596,390
Maryland	2,534,480	2,557,510	2,596,630	2,640,900
Massachusetts	3,257,870	3,322,500	3,396,840	3,459,910
Michigan	3,998,790	4,073,730	4,146,600	4,212,090

State Indicators

State	2013	2014	2015	2016
Minnesota	2,688,580	2,730,020	2,772,240	2,810,400
Mississippi	1,083,560	1,094,070	1,106,550	1,117,280
Missouri	2,639,120	2,673,640	2,712,240	2,757,850
Montana	439,110	443,330	447,180	454,740
Nebraska	927,150	942,950	953,710	968,000
Nevada	1,151,970	1,189,610	1,232,800	1,270,930
New Hampshire	620,190	627,000	635,360	645,050
New Jersey	3,821,070	3,869,260	3,906,800	3,955,350
New Mexico	783,980	788,000	798,150	805,440
New York	8,635,400	8,810,950	8,984,890	9,097,650
North Carolina	3,947,030	4,030,880	4,125,070	4,231,020
North Dakota	422,930	440,420	447,820	425,200
Ohio	5,125,850	5,200,880	5,280,850	5,337,890
Oklahoma	1,558,860	1,577,330	1,597,130	1,586,890
Oregon	1,640,300	1,683,470	1,735,220	1,790,940
Pennsylvania	5,616,820	5,653,840	5,709,480	5,747,020
Rhode Island	456,100	463,930	471,290	475,190
South Carolina	1,826,120	1,876,480	1,928,140	1,979,820
South Dakota	402,990	409,250	413,260	417,520
Tennessee	2,700,050	2,749,480	2,814,230	2,893,040
Texas	10,913,950	11,228,940	11,572,540	11,745,250
Utah	1,242,690	1,280,660	1,324,460	1,374,900
Vermont	298,290	301,050	303,550	304,670
Virginia	3,631,440	3,648,490	3,682,450	3,760,550
Washington	2,827,200	2,898,350	2,983,930	3,067,110
West Virginia	709,430	707,720	707,000	697,440

State Indicators

State	2013	2014	2015	2016
Wisconsin	2,704,840	2,727,860	2,771,600	2,805,010
Wyoming	278,910	282,690	283,830	276,120
Puerto Rico	927,460	902,930	890,760	883,360
Science and Engineering Indicators 2018				

State Indicators

S-35 Computer and Mathematical Scientists as a Percentage of All Occupations

Description

This indicator represents the percentage of computer and mathematical scientists in a state's workforce. The occupations in this group include computer and information research scientists; computer systems analysts; information security analysts; computer programmers; software developers, applications; software developers, systems software; web developers; database administrators; network and computer systems administrators; computer network architects; computer user support specialists; computer network support specialists; actuaries; mathematicians; operations research analysts; statisticians; mathematical technicians; other computer and mathematical science occupations; and postsecondary teachers in these fields.

Data on individuals in computer and mathematical science occupations and total occupations come from the Bureau of Labor Statistics (BLS) Occupational Employment Statistics (OES) Survey, a survey of workplaces that assigns workers to a state based on where they work. Estimates are developed by BLS from data provided by state workforce agencies. The OES survey covers all full-time and part-time wage and salary workers in nonfarm industries. The survey does not cover the self-employed, owners and partners in unincorporated firms, household workers, or unpaid family workers. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

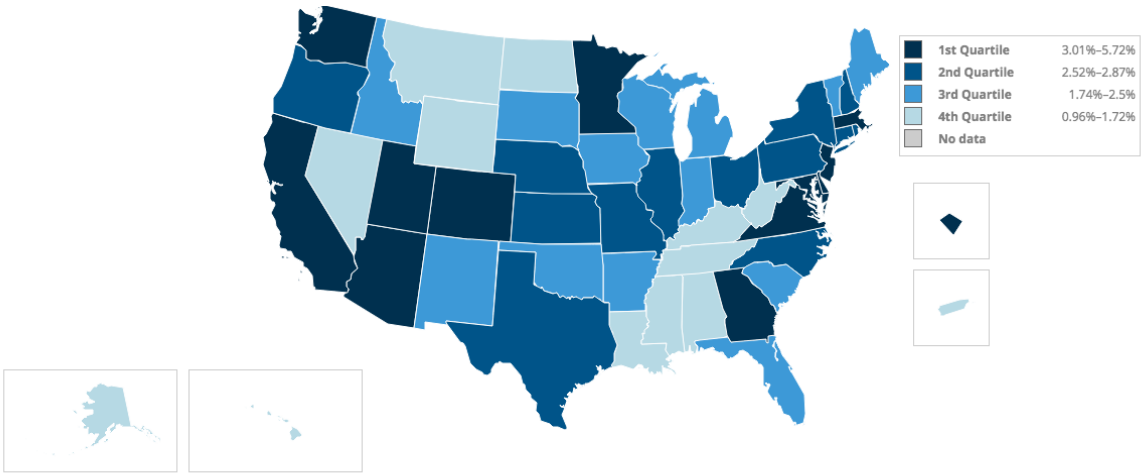
There is a significant concentration of computer- and math-intensive occupations in the District of Columbia and the adjacent states of Maryland and Virginia. This may be due to the presence of many federal government offices, colleges and universities, and government contractors in the area that employ scientists and engineers, especially computer and mathematical scientists. In addition, the technology-intensive economies of California and Washington have significant concentrations of computer and mathematical scientists.

Data source: U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics Survey.

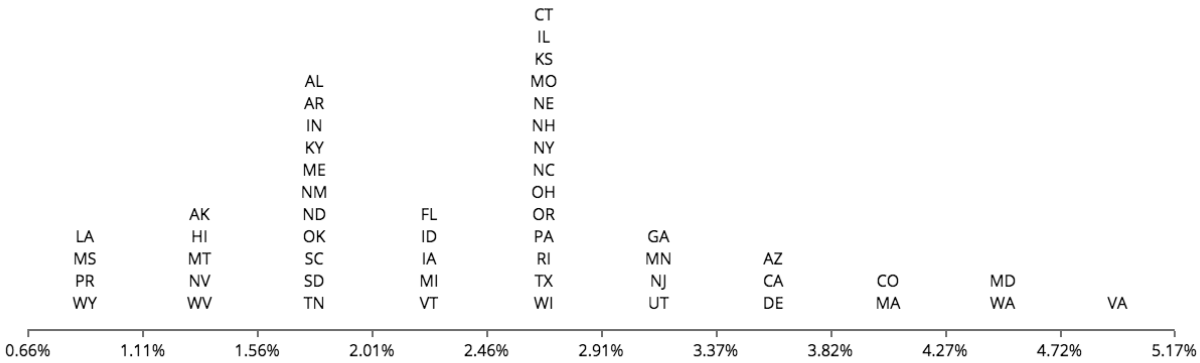
State Indicators

S-35 Computer and Mathematical Scientists as a Percentage of All Occupations

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

Computer and Mathematical Scientists as a Percentage of All Occupations

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	1.96	2.02	2.02	2.07	2.13	2.20	2.29	2.37	2.46	2.55
Alabama	1.40	1.46	1.50	1.58	1.60	1.62	1.66	1.77	1.88	1.90
Alaska	0.99	1.09	1.12	1.09	1.21	1.32	1.43	1.58	1.58	1.60
Arizona	1.90	1.97	1.88	1.84	1.91	1.88	2.06	2.30	2.64	2.80
Arkansas	0.94	1.02	1.04	1.06	1.20	1.32	1.50	1.48	1.46	1.44
California	2.36	2.37	2.41	2.41	2.42	2.54	2.70	2.82	2.98	3.06
Colorado	NA	NA	3.23	3.30	3.36	3.53	3.74	3.87	3.88	3.95
Connecticut	2.36	2.47	2.50	2.40	2.44	2.41	2.39	2.41	2.37	2.52
Delaware	2.18	2.24	2.14	2.55	2.52	2.49	2.55	2.77	2.89	3.05
District of Columbia	4.34	4.91	4.84	5.17	5.15	5.03	4.87	4.85	4.92	5.02
Florida	1.71	1.72	1.69	1.67	1.64	1.76	1.86	1.96	1.99	2.03
Georgia	2.43	2.27	2.19	2.12	2.03	2.17	2.31	2.42	2.43	2.47
Hawaii	1.27	1.29	1.26	1.25	1.15	1.21	1.26	1.39	1.47	1.53
Idaho	1.49	1.48	1.54	1.52	1.55	1.57	1.74	1.92	1.96	1.78
Illinois	1.93	2.02	1.99	2.00	2.08	2.08	2.12	1.95	2.00	2.27
Indiana	1.17	1.17	1.16	1.21	1.29	1.41	1.52	1.61	1.60	1.59
Iowa	NA	NA	NA	1.58	1.62	1.65	1.67	1.70	1.85	1.96
Kansas	1.76	1.88	1.80	NA	1.71	1.84	1.95	1.90	1.94	2.01
Kentucky	1.33	1.24	1.24	1.25	1.41	1.49	1.51	1.50	1.56	1.56
Louisiana	0.87	0.93	0.90	0.87	0.78	NA	0.80	0.86	0.87	0.95
Maine	1.10	1.10	1.17	1.23	1.25	1.31	1.44	1.47	1.41	1.44
Maryland	3.43	3.50	3.49	3.51	3.43	3.52	3.67	3.84	3.99	4.06
Massachusetts	3.05	3.18	3.21	3.24	3.35	3.50	3.63	3.76	3.93	4.12

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	1.53	1.65	1.72	1.89	NA	NA	NA	NA	2.03	2.24
Minnesota	2.43	2.44	2.46	2.60	2.71	2.85	2.96	2.97	2.93	2.92
Mississippi	0.74	0.79	0.82	0.76	0.80	0.85	0.86	0.77	NA	0.86
Missouri	1.84	1.94	1.91	2.00	2.04	2.20	2.27	2.51	2.61	2.72
Montana	1.19	1.09	1.08	1.17	1.02	1.09	1.24	1.35	1.43	1.41
Nebraska	1.95	2.04	1.95	2.05	2.02	1.98	1.97	2.16	2.32	2.43
Nevada	0.91	0.92	0.87	0.96	0.95	1.03	1.14	1.20	1.27	1.25
New Hampshire	2.02	NA	2.37	2.48	2.50	2.62	2.90	2.81	2.73	2.73
New Jersey	2.35	2.43	2.54	2.54	2.69	2.93	3.08	3.07	2.98	2.98
New Mexico	1.41	1.35	1.41	1.42	NA	1.46	1.67	1.68	1.72	NA
New York	1.68	1.76	1.80	1.92	2.06	2.01	1.97	2.09	2.19	2.29
North Carolina	1.91	1.95	1.87	NA	1.91	2.04	2.22	2.32	2.36	2.51
North Dakota	1.25	1.26	1.33	1.28	1.37	1.30	1.35	1.67	1.70	1.68
Ohio	1.57	1.64	1.66	1.75	1.93	2.04	2.21	2.25	NA	NA
Oklahoma	1.40	1.49	1.44	1.64	1.70	1.54	1.42	1.37	1.40	1.44
Oregon	1.93	2.02	1.95	1.98	2.01	2.09	2.15	2.21	2.33	2.44
Pennsylvania	NA	NA	NA	1.78	1.83	1.88	1.95	2.02	2.09	2.21
Rhode Island	1.88	1.92	1.79	1.82	1.89	1.91	2.00	NA	2.29	2.46
South Carolina	1.10	1.09	1.11	1.15	1.19	1.32	1.36	1.42	1.50	1.55
South Dakota	1.24	1.28	1.19	1.29	1.50	1.52	1.45	1.41	1.50	1.49
Tennessee	1.16	1.18	1.17	1.18	1.24	1.25	1.30	1.38	1.49	1.51
Texas	1.90	2.00	1.99	2.07	2.21	2.26	2.32	2.39	2.46	2.59
Utah	2.25	2.12	2.04	2.18	2.19	2.21	2.26	2.44	2.42	2.55
Vermont	1.70	1.93	1.90	1.82	1.74	1.69	1.90	2.19	2.30	2.24
Virginia	3.85	4.30	4.31	4.52	4.55	4.60	4.81	4.94	5.16	5.34
Washington	2.83	2.94	NA	3.06	3.30	3.39	3.66	3.72	4.03	4.32

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	0.92	0.85	0.86	0.93	0.87	0.91	0.92	1.08	1.22	1.34
Wisconsin	1.55	1.56	1.51	1.56	1.59	1.64	1.74	1.98	2.01	2.04
Wyoming	0.69	0.75	0.78	0.80	0.75	0.80	NA	0.83	0.85	0.95
Puerto Rico	0.66	0.66	0.66	0.78	NA	0.74	0.75	0.85	0.89	0.93

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Computer and Mathematical Scientists as a Percentage of All Occupations

(Percent)

State	2013	2014	2015	2016
United States	2.60	2.66	2.74	2.82
Alabama	1.98	1.88	1.78	1.72
Alaska	1.50	1.44	1.48	1.44
Arizona	2.96	3.13	3.30	3.38
Arkansas	1.53	1.63	1.74	1.74
California	3.09	NA	NA	3.43
Colorado	3.87	3.93	3.91	4.09
Connecticut	2.51	2.56	2.53	2.61
Delaware	2.86	2.97	3.29	3.53
District of Columbia	5.10	5.34	5.64	5.72
Florida	2.06	2.12	2.22	2.26
Georgia	2.69	2.80	2.95	3.11
Hawaii	1.52	1.44	1.45	1.44
Idaho	1.79	1.89	2.07	2.07
Illinois	NA	2.60	2.65	2.80
Indiana	1.63	1.68	1.70	1.78
Iowa	2.03	2.00	1.99	2.07
Kansas	2.02	2.16	2.38	2.54
Kentucky	1.61	1.66	1.66	1.60
Louisiana	0.96	0.99	0.97	0.98
Maine	1.55	1.66	1.75	1.85
Maryland	4.28	4.39	4.46	4.54
Massachusetts	3.93	3.84	3.81	3.98

State Indicators

State	2013	2014	2015	2016
Michigan	2.34	2.39	2.40	2.45
Minnesota	2.94	3.11	3.15	3.25
Mississippi	0.95	NA	0.95	0.99
Missouri	2.54	2.54	2.61	2.75
Montana	1.49	1.53	1.63	1.50
Nebraska	2.50	2.36	2.50	2.61
Nevada	1.28	1.27	1.25	1.29
New Hampshire	2.60	2.56	2.63	2.67
New Jersey	3.04	3.10	3.16	3.30
New Mexico	1.64	1.77	1.76	1.89
New York	2.32	2.37	NA	2.56
North Carolina	2.60	2.66	2.73	2.87
North Dakota	1.39	1.43	1.38	1.65
Ohio	NA	2.41	2.52	2.56
Oklahoma	1.54	1.67	1.78	1.86
Oregon	2.53	2.57	2.68	2.69
Pennsylvania	2.29	2.34	2.43	2.52
Rhode Island	2.61	2.70	2.72	2.80
South Carolina	1.63	1.72	1.75	1.81
South Dakota	1.59	1.61	1.68	1.77
Tennessee	1.58	1.60	1.63	1.68
Texas	2.68	2.81	2.92	2.86
Utah	2.57	2.76	2.86	3.01
Vermont	2.06	2.14	2.20	2.25
Virginia	5.32	5.21	5.16	5.13
Washington	4.43	NA	NA	4.56

State Indicators

State	2013	2014	2015	2016
West Virginia	1.29	1.39	1.37	1.51
Wisconsin	2.05	2.20	2.30	2.50
Wyoming	0.99	0.96	0.94	0.96
Puerto Rico	0.92	0.95	0.98	1.07

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Computer and mathematical scientists

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	2,491,280	2,603,140	2,629,640	2,743,560	2,855,930	2,972,940	2,997,120	3,016,100	3,153,130	3,326,810
Alabama	25,530	27,090	28,180	30,120	31,000	31,530	30,900	32,000	33,980	34,690
Alaska	2,880	3,210	3,370	3,310	3,650	4,070	4,410	4,860	4,960	5,110
Arizona	43,170	46,600	45,810	47,440	50,540	49,720	51,060	54,400	62,840	67,530
Arkansas	10,510	11,510	11,930	12,350	14,070	15,550	17,210	16,750	16,630	16,580
California	341,620	345,580	355,360	362,470	367,960	387,090	392,580	394,700	418,000	437,440
Colorado	NA	NA	69,470	72,910	75,840	81,260	83,470	83,540	84,650	87,930
Connecticut	38,440	40,470	41,170	39,800	41,080	40,910	39,410	38,510	38,060	40,870
Delaware	8,780	9,260	8,940	10,830	10,750	10,600	10,520	11,010	11,640	12,360
District of Columbia	25,810	29,960	29,590	31,520	31,990	31,980	31,040	31,030	31,700	32,800
Florida	123,090	128,590	128,910	131,710	130,250	136,700	136,780	139,580	142,000	148,000
Georgia	91,660	87,320	85,520	84,940	82,550	88,140	89,950	90,470	91,660	94,060
Hawaii	7,080	7,430	7,370	7,500	7,020	7,410	7,430	7,930	8,510	9,000
Idaho	8,400	8,670	9,180	9,490	9,960	10,230	10,680	11,430	11,610	10,640
Illinois	110,500	116,200	114,940	116,580	122,800	123,070	121,190	107,990	111,230	127,820
Indiana	33,340	33,620	33,660	35,170	37,650	41,180	42,290	43,810	44,110	44,730
Iowa	NA	NA	NA	23,170	24,170	24,740	24,580	24,490	26,860	28,890
Kansas	22,750	24,640	23,650	NA	23,080	25,290	26,330	24,760	25,330	26,530
Kentucky	22,820	21,610	21,830	22,260	25,350	27,110	26,440	25,740	27,070	27,580
Louisiana	16,170	17,380	16,870	15,490	14,390	NA	15,020	15,780	15,980	17,830
Maine	6,510	6,610	6,970	7,360	7,480	7,900	8,510	8,460	8,090	8,360
Maryland	83,930	86,690	87,160	88,790	87,540	90,070	91,770	94,450	99,070	102,000
Massachusetts	95,610	99,600	100,830	102,790	107,460	113,150	114,980	117,330	124,000	131,910
Michigan	65,970	71,350	74,700	81,310	NA	NA	NA	NA	77,880	87,920

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	63,010	63,950	64,800	69,790	72,970	76,960	77,710	75,990	76,130	77,070
Mississippi	8,040	8,720	9,080	8,490	9,040	9,620	9,420	8,200	NA	9,290
Missouri	48,190	51,480	50,910	53,930	55,780	60,410	60,560	64,880	67,720	70,950
Montana	4,690	4,450	4,470	4,980	4,450	4,850	5,380	5,720	6,100	6,090
Nebraska	17,170	18,130	17,430	18,440	18,470	18,400	18,050	19,490	21,000	22,260
Nevada	9,890	10,590	10,400	12,020	12,200	13,160	13,460	13,410	14,170	14,140
New Hampshire	12,280	NA	14,700	15,570	15,820	16,620	17,940	16,930	16,560	16,720
New Jersey	91,040	94,800	99,610	100,360	106,950	116,910	118,700	115,800	112,560	113,120
New Mexico	10,500	10,180	10,780	11,200	NA	11,940	13,380	13,030	13,380	NA
New York	138,700	145,770	150,140	160,850	175,380	173,900	167,400	174,360	184,420	195,840
North Carolina	70,720	73,490	71,080	NA	76,760	82,820	86,570	87,480	89,900	97,390
North Dakota	3,940	4,100	4,370	4,300	4,700	4,550	4,770	5,950	6,300	6,790
Ohio	83,230	87,540	88,780	93,650	103,060	108,850	112,740	110,570	NA	NA
Oklahoma	19,810	21,340	20,990	24,700	25,940	23,950	21,710	20,260	20,940	22,020
Oregon	29,640	31,920	31,250	32,660	33,820	35,700	34,870	34,700	37,010	39,300
Pennsylvania	NA	NA	NA	100,460	103,650	107,220	108,770	110,950	116,190	123,850
Rhode Island	8,970	9,210	8,580	8,780	9,180	9,140	9,170	NA	10,310	11,150
South Carolina	19,320	19,610	20,040	21,090	22,410	24,970	24,590	24,790	26,630	27,870
South Dakota	4,520	4,740	4,460	4,910	5,840	6,020	5,700	5,450	5,890	5,960
Tennessee	30,210	31,330	31,310	31,950	33,850	34,470	34,050	35,530	38,880	40,110
Texas	175,970	186,300	187,590	202,170	222,820	234,970	238,230	241,270	253,750	273,910
Utah	23,430	22,840	22,370	25,090	26,420	27,150	26,740	28,000	28,190	30,600
Vermont	4,950	5,710	5,660	5,450	5,240	5,090	5,600	6,290	6,700	6,580
Virginia	131,310	150,100	152,460	163,110	165,790	168,810	172,640	174,370	183,520	192,160
Washington	72,370	76,850	NA	83,700	92,920	97,260	102,110	100,130	109,570	119,330
West Virginia	6,230	5,860	6,020	6,580	6,240	6,540	6,510	7,420	8,570	9,520

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	41,550	42,440	41,180	42,810	43,940	45,670	46,830	51,600	53,130	54,470
Wyoming	1,650	1,850	1,960	2,100	2,060	2,260	NA	2,250	2,310	2,630
Puerto Rico	6,310	6,780	6,740	8,010	NA	7,420	7,190	8,040	8,260	8,790

NA not available

Science and Engineering Indicators 2018

State Indicators

Computer and mathematical scientists

State	2013	2014	2015	2016
United States	3,452,420	3,598,890	3,782,840	3,958,050
Alabama	36,570	34,990	33,470	32,930
Alaska	4,850	4,690	4,830	4,650
Arizona	73,270	79,180	85,260	89,710
Arkansas	17,600	18,890	20,520	20,760
California	454,290	NA	NA	548,420
Colorado	88,910	93,160	95,880	102,530
Connecticut	41,130	42,210	41,990	43,510
Delaware	11,770	12,610	14,290	15,540
District of Columbia	33,930	36,060	38,100	40,200
Florida	153,490	162,690	176,320	185,480
Georgia	104,430	111,700	121,220	130,890
Hawaii	9,160	8,830	8,980	9,090
Idaho	10,970	11,880	13,330	13,720
Illinois	NA	149,700	155,280	165,410
Indiana	46,520	48,850	50,120	53,240
Iowa	30,300	30,250	30,420	31,770
Kansas	26,970	29,330	32,660	34,960
Kentucky	28,770	29,970	30,520	29,870
Louisiana	18,010	18,990	18,860	18,820
Maine	9,030	9,750	10,330	11,060
Maryland	108,510	112,270	115,900	119,770
Massachusetts	127,950	127,490	129,410	137,630
Michigan	93,600	97,200	99,450	103,040

State Indicators

State	2013	2014	2015	2016
Minnesota	79,030	84,830	87,440	91,220
Mississippi	10,280	NA	10,460	11,030
Missouri	67,060	67,920	70,790	75,810
Montana	6,530	6,770	7,280	6,800
Nebraska	23,140	22,270	23,840	25,280
Nevada	14,730	15,070	15,460	16,410
New Hampshire	16,150	16,080	16,690	17,250
New Jersey	116,170	119,850	123,290	130,580
New Mexico	12,820	13,980	14,060	15,190
New York	200,750	209,100	NA	232,940
North Carolina	102,500	107,090	112,520	121,470
North Dakota	5,870	6,290	6,180	7,000
Ohio	NA	125,210	133,220	136,840
Oklahoma	24,050	26,370	28,420	29,450
Oregon	41,490	43,190	46,490	48,170
Pennsylvania	128,430	132,570	138,470	144,830
Rhode Island	11,920	12,540	12,830	13,320
South Carolina	29,800	32,350	33,730	35,750
South Dakota	6,400	6,580	6,930	7,380
Tennessee	42,750	44,100	45,910	48,570
Texas	292,190	315,140	337,740	335,530
Utah	31,950	35,410	37,840	41,450
Vermont	6,140	6,430	6,690	6,870
Virginia	193,090	190,060	189,940	192,780
Washington	125,110	NA	NA	139,900
West Virginia	9,140	9,840	9,710	10,550

State Indicators

State	2013	2014	2015	2016
Wisconsin	55,510	59,970	63,630	70,010
Wyoming	2,770	2,700	2,660	2,660
Puerto Rico	8,530	8,540	8,690	9,480

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	127,420,170	129,146,700	130,307,840	132,604,980	134,354,250	135,185,230	130,647,610	127,097,160	128,278,550	130,287,700
Alabama	1,817,240	1,851,040	1,872,600	1,912,220	1,931,970	1,945,300	1,863,620	1,807,480	1,809,420	1,824,400
Alaska	290,740	295,810	300,150	303,890	301,920	307,790	308,140	308,050	313,170	318,700
Arizona	2,275,410	2,370,810	2,437,100	2,574,150	2,648,000	2,637,830	2,479,120	2,367,120	2,380,200	2,414,340
Arkansas	1,118,690	1,133,800	1,142,370	1,166,840	1,172,760	1,176,050	1,147,660	1,135,560	1,139,670	1,155,020
California	14,460,860	14,598,250	14,723,900	15,065,750	15,202,530	15,212,610	14,532,640	14,001,730	14,038,950	14,303,630
Colorado	2,097,650	2,130,430	2,151,520	2,207,120	2,258,240	2,302,340	2,234,250	2,157,690	2,179,060	2,226,160
Connecticut	1,631,610	1,640,840	1,648,070	1,658,980	1,682,220	1,697,810	1,648,950	1,598,640	1,608,820	1,620,620
Delaware	403,650	413,940	417,550	424,270	425,960	425,210	412,570	397,730	403,430	405,750
District of Columbia	595,220	609,770	611,190	609,400	620,970	635,500	637,180	639,390	644,730	653,760
Florida	7,217,400	7,479,050	7,614,840	7,869,210	7,963,010	7,771,740	7,355,940	7,103,950	7,151,700	7,273,850
Georgia	3,770,430	3,848,740	3,904,020	4,001,580	4,058,370	4,068,270	3,889,160	3,744,740	3,779,250	3,815,530
Hawaii	557,400	573,890	583,630	599,130	610,310	612,420	587,810	571,630	577,220	588,210
Idaho	563,200	584,580	597,490	624,320	641,960	650,240	614,520	594,750	592,730	598,540
Illinois	5,719,150	5,739,250	5,767,100	5,826,660	5,894,670	5,910,630	5,704,240	5,528,420	5,574,180	5,640,740
Indiana	2,851,210	2,879,070	2,891,360	2,913,200	2,928,780	2,927,620	2,787,780	2,724,850	2,758,100	2,811,920
Iowa	1,413,220	1,433,570	1,446,550	1,470,240	1,488,360	1,502,600	1,471,130	1,438,510	1,449,110	1,470,740
Kansas	1,292,170	1,311,390	1,315,640	1,321,180	1,347,670	1,374,560	1,348,710	1,304,780	1,308,070	1,320,920
Kentucky	1,719,620	1,736,230	1,754,590	1,779,830	1,801,800	1,817,860	1,748,610	1,716,060	1,732,870	1,764,750
Louisiana	1,851,870	1,865,300	1,877,160	1,776,990	1,847,230	1,887,370	1,871,950	1,832,830	1,839,780	1,868,210
Maine	591,750	598,350	597,260	596,910	600,020	604,150	589,090	577,410	575,640	581,110
Maryland	2,448,580	2,477,280	2,497,220	2,531,180	2,551,910	2,561,530	2,503,410	2,462,470	2,480,670	2,510,680
Massachusetts	3,130,720	3,129,090	3,144,540	3,170,490	3,207,840	3,234,860	3,169,010	3,119,100	3,157,020	3,202,080
Michigan	4,310,420	4,324,840	4,334,870	4,294,260	4,210,550	4,142,750	3,893,900	3,755,890	3,829,000	3,918,120

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	2,591,720	2,625,060	2,635,370	2,682,940	2,687,740	2,704,860	2,627,640	2,562,450	2,595,450	2,641,110
Mississippi	1,089,350	1,101,680	1,108,540	1,113,000	1,128,980	1,138,210	1,096,890	1,070,820	1,073,100	1,080,420
Missouri	2,623,020	2,646,990	2,663,880	2,700,450	2,732,920	2,740,170	2,668,450	2,588,450	2,591,020	2,605,910
Montana	394,820	408,730	414,650	427,130	435,480	444,090	432,240	424,300	425,110	432,380
Nebraska	879,550	887,200	895,470	901,120	914,670	928,120	916,770	901,690	904,630	914,830
Nevada	1,086,110	1,154,440	1,191,640	1,257,860	1,285,470	1,278,230	1,179,860	1,113,530	1,112,780	1,127,160
New Hampshire	607,570	618,310	621,560	627,570	632,590	634,570	619,390	603,420	606,690	612,710
New Jersey	3,878,020	3,901,020	3,917,310	3,957,500	3,980,080	3,986,310	3,850,770	3,770,550	3,771,250	3,793,720
New Mexico	747,050	754,990	763,430	789,360	798,640	819,480	800,390	777,560	777,640	773,860
New York	8,236,200	8,299,910	8,333,460	8,387,750	8,515,960	8,633,580	8,487,020	8,344,020	8,427,560	8,542,280
North Carolina	3,702,170	3,770,700	3,809,690	3,892,670	4,013,460	4,063,420	3,896,750	3,772,780	3,814,860	3,878,800
North Dakota	314,620	324,430	328,520	335,740	341,970	350,360	353,630	355,710	371,630	403,290
Ohio	5,308,270	5,324,700	5,340,280	5,354,170	5,341,360	5,323,130	5,091,490	4,921,690	4,977,910	5,054,250
Oklahoma	1,416,640	1,436,380	1,455,940	1,503,430	1,528,890	1,557,750	1,525,330	1,483,760	1,498,260	1,529,900
Oregon	1,537,000	1,576,890	1,598,780	1,648,680	1,682,150	1,706,740	1,624,490	1,569,700	1,586,620	1,609,900
Pennsylvania	5,494,430	5,535,000	5,569,310	5,631,520	5,663,070	5,705,170	5,572,660	5,483,220	5,549,240	5,596,480
Rhode Island	477,320	480,290	479,810	482,550	485,870	478,420	458,760	448,150	450,980	453,020
South Carolina	1,764,170	1,792,190	1,802,740	1,840,190	1,877,950	1,892,690	1,802,900	1,746,820	1,772,880	1,796,550
South Dakota	364,970	371,010	373,500	381,230	389,400	395,960	392,890	387,590	392,670	398,680
Tennessee	2,614,830	2,665,060	2,686,580	2,718,410	2,739,230	2,755,800	2,625,140	2,569,420	2,602,320	2,657,280
Texas	9,248,660	9,306,600	9,424,510	9,760,960	10,061,750	10,391,420	10,289,240	10,089,870	10,304,370	10,579,400
Utah	1,043,500	1,077,210	1,099,230	1,151,020	1,206,180	1,230,320	1,185,770	1,148,520	1,165,980	1,200,850
Vermont	291,400	296,260	297,650	299,610	301,140	301,130	294,120	286,990	290,830	294,090
Virginia	3,412,070	3,494,250	3,535,500	3,608,430	3,645,330	3,670,980	3,589,520	3,527,350	3,553,360	3,597,100
Washington	2,560,190	2,614,640	2,653,320	2,736,910	2,811,700	2,868,910	2,789,670	2,693,220	2,720,660	2,764,080
West Virginia	680,200	692,840	697,390	710,560	713,230	717,740	704,310	688,170	700,250	710,540

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	2,687,400	2,717,970	2,727,430	2,744,210	2,768,830	2,776,690	2,689,710	2,608,740	2,645,180	2,673,280
Wyoming	240,730	246,670	251,590	262,260	273,170	283,980	282,450	269,910	272,570	278,040
Puerto Rico	962,000	1,022,610	1,026,290	1,031,650	NA	999,010	962,030	950,570	930,940	942,080

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2013	2014	2015	2016
United States	132,588,810	135,128,260	137,896,660	140,400,040
Alabama	1,844,080	1,857,530	1,883,310	1,912,990
Alaska	322,660	324,970	327,250	323,500
Arizona	2,475,660	2,526,990	2,587,070	2,652,990
Arkansas	1,152,600	1,158,790	1,176,130	1,191,320
California	14,714,530	15,119,730	15,496,600	15,966,580
Colorado	2,295,000	2,367,780	2,451,490	2,507,680
Connecticut	1,635,590	1,646,510	1,659,430	1,666,280
Delaware	412,140	424,330	433,840	440,760
District of Columbia	665,850	674,650	676,060	702,380
Florida	7,453,230	7,665,280	7,925,300	8,222,030
Georgia	3,879,660	3,983,250	4,107,960	4,214,410
Hawaii	602,200	612,580	619,960	632,120
Idaho	613,000	628,140	642,700	663,490
Illinois	5,704,700	5,765,880	5,852,710	5,903,820
Indiana	2,854,250	2,905,170	2,947,380	2,991,260
Iowa	1,491,600	1,512,740	1,526,950	1,534,910
Kansas	1,336,460	1,359,500	1,371,630	1,374,180
Kentucky	1,782,820	1,808,010	1,838,220	1,869,650
Louisiana	1,885,310	1,915,800	1,939,300	1,922,170
Maine	582,430	586,390	591,520	596,390
Maryland	2,534,480	2,557,510	2,596,630	2,640,900
Massachusetts	3,257,870	3,322,500	3,396,840	3,459,910
Michigan	3,998,790	4,073,730	4,146,600	4,212,090

State Indicators

State	2013	2014	2015	2016
Minnesota	2,688,580	2,730,020	2,772,240	2,810,400
Mississippi	1,083,560	1,094,070	1,106,550	1,117,280
Missouri	2,639,120	2,673,640	2,712,240	2,757,850
Montana	439,110	443,330	447,180	454,740
Nebraska	927,150	942,950	953,710	968,000
Nevada	1,151,970	1,189,610	1,232,800	1,270,930
New Hampshire	620,190	627,000	635,360	645,050
New Jersey	3,821,070	3,869,260	3,906,800	3,955,350
New Mexico	783,980	788,000	798,150	805,440
New York	8,635,400	8,810,950	8,984,890	9,097,650
North Carolina	3,947,030	4,030,880	4,125,070	4,231,020
North Dakota	422,930	440,420	447,820	425,200
Ohio	5,125,850	5,200,880	5,280,850	5,337,890
Oklahoma	1,558,860	1,577,330	1,597,130	1,586,890
Oregon	1,640,300	1,683,470	1,735,220	1,790,940
Pennsylvania	5,616,820	5,653,840	5,709,480	5,747,020
Rhode Island	456,100	463,930	471,290	475,190
South Carolina	1,826,120	1,876,480	1,928,140	1,979,820
South Dakota	402,990	409,250	413,260	417,520
Tennessee	2,700,050	2,749,480	2,814,230	2,893,040
Texas	10,913,950	11,228,940	11,572,540	11,745,250
Utah	1,242,690	1,280,660	1,324,460	1,374,900
Vermont	298,290	301,050	303,550	304,670
Virginia	3,631,440	3,648,490	3,682,450	3,760,550
Washington	2,827,200	2,898,350	2,983,930	3,067,110
West Virginia	709,430	707,720	707,000	697,440

State Indicators

State	2013	2014	2015	2016
Wisconsin	2,704,840	2,727,860	2,771,600	2,805,010
Wyoming	278,910	282,690	283,830	276,120
Puerto Rico	927,460	902,930	890,760	883,360
Science and Engineering Indicators 2018				

State Indicators

S-36 Physical Scientists as a Percentage of All Occupations

Description

This indicator represents the percentage of physical scientists in a state's workforce. Physical scientists are identified from standard occupational codes that include astronomers, physicists, atmospheric and space scientists, chemists, materials scientists, environmental scientists, geoscientists, and postsecondary teachers in these fields. A high share of physical scientists in a state's workforce could indicate several scenarios, ranging from the presence of forests or national parks, which require foresters, wildlife specialists, and conservationists to manage the natural assets in these areas, to a robust cluster of physical science industries such as basic chemical manufacturing.

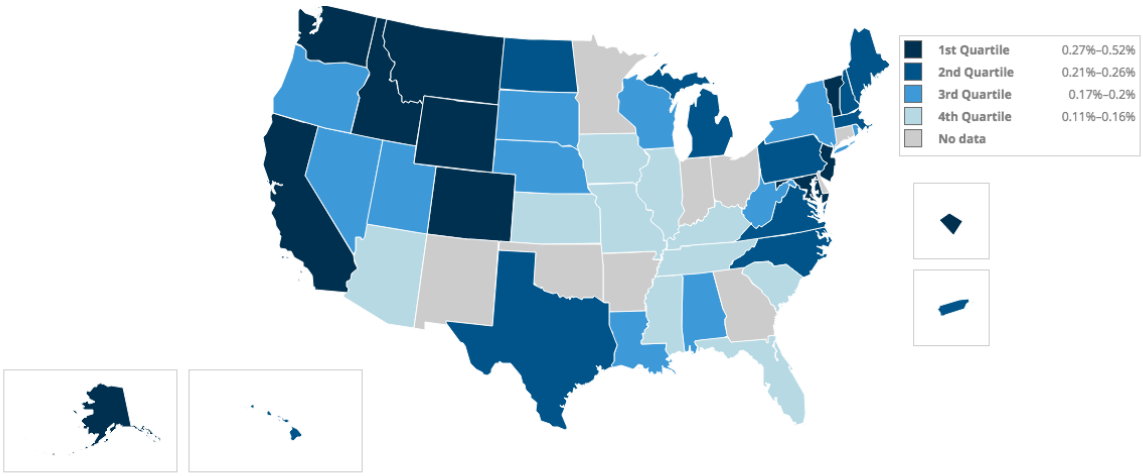
Data on employment in physical science occupations and total occupations come from the Bureau of Labor Statistics (BLS) Occupational Employment Statistics (OES) Survey, a survey of workplaces that assigns workers to a state based on where they work. Estimates are developed by BLS from data provided by state workforce agencies. The OES survey covers all full-time and part-time wage and salary workers in nonfarm industries. The survey does not cover the self-employed, owners and partners in unincorporated firms, household workers, or unpaid family workers. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

Data source: U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics Survey.

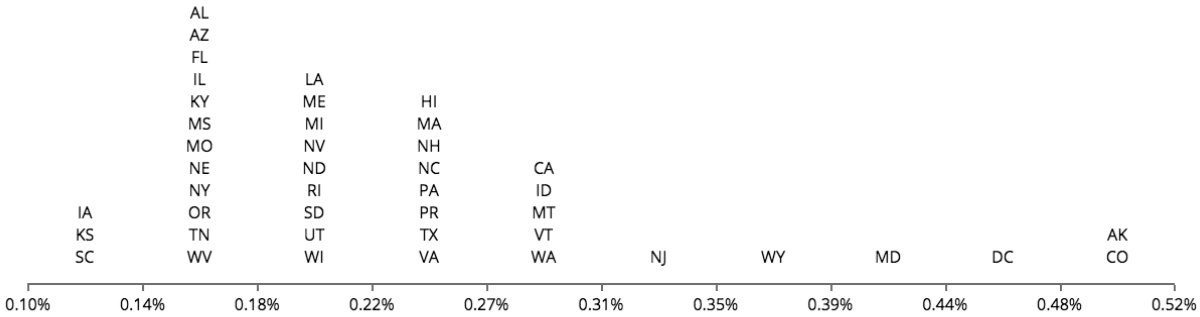
State Indicators

S-36 Physical Scientists as a Percentage of All Occupations

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

Physical Scientists as a Percentage of All Occupations

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	0.21	0.22	0.22	0.22	0.22	0.22	0.23	0.24	0.24	0.25
Alabama	0.19	0.18	0.18	0.15	0.16	0.16	NA	NA	0.17	0.18
Alaska	0.47	0.46	0.45	0.38	0.46	0.52	0.58	0.57	0.60	0.68
Arizona	0.17	0.18	0.17	0.14	0.15	0.15	NA	NA	NA	0.18
Arkansas	0.13	0.15	0.14	0.12	0.15	0.10	0.12	0.13	NA	0.13
California	0.22	0.22	0.22	NA	NA	NA	0.27	0.29	0.29	0.30
Colorado	0.36	0.37	0.41	0.43	0.44	0.43	NA	NA	0.49	NA
Connecticut	0.21	0.23	0.22	0.18	0.16	NA	0.18	0.22	0.24	0.26
Delaware	0.49	0.44	0.49	0.37	0.40	0.42	0.66	0.66	0.73	0.98
District of Columbia	0.56	0.56	0.60	0.64	0.64	0.59	0.56	0.56	0.56	0.54
Florida	0.16	0.16	0.16	0.16	0.15	0.15	0.18	0.19	NA	0.17
Georgia	0.13	0.15	0.12	0.11	0.10	0.12	0.14	0.15	0.15	0.15
Hawaii	0.24	0.25	0.24	0.27	0.29	0.27	0.29	0.29	0.28	0.28
Idaho	0.28	0.29	0.28	0.26	0.18	0.21	0.23	0.26	0.28	0.29
Illinois	0.17	0.18	0.19	0.23	0.21	0.21	0.19	0.20	0.18	0.19
Indiana	0.14	0.15	0.16	NA	0.17	0.20	0.20	0.20	0.23	0.22
Iowa	0.12	NA	NA	0.12	0.10	0.10	0.10	0.10	0.10	0.13
Kansas	0.16	0.16	0.16	0.18	0.17	0.19	0.19	0.20	0.19	0.18
Kentucky	0.13	0.13	NA	0.13	0.13	NA	0.15	0.16	0.15	0.14
Louisiana	0.23	0.23	0.22	0.23	0.20	0.19	0.21	0.21	0.21	0.20
Maine	0.20	0.22	0.21	0.25	0.25	0.25	0.23	0.24	0.23	NA
Maryland	NA	0.38	0.39	0.38	0.41	0.45	0.44	NA	NA	0.49
Massachusetts	0.29	0.29	0.28	0.29	0.30	NA	0.30	NA	NA	NA

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	NA	0.15	0.15	NA	0.15	0.17	0.18	0.18	NA	0.19
Minnesota	0.18	0.18	0.18	0.22	0.21	0.20	0.20	0.21	NA	0.20
Mississippi	0.18	0.17	0.18	0.19	0.18	0.19	0.20	NA	NA	0.20
Missouri	0.17	0.18	0.18	0.17	NA	NA	NA	0.18	NA	0.18
Montana	0.27	0.30	0.31	0.34	NA	NA	0.33	0.33	0.31	0.30
Nebraska	0.20	0.19	0.18	0.18	0.15	0.16	0.16	0.18	0.19	0.20
Nevada	0.19	0.18	0.18	0.19	0.17	0.18	0.20	0.22	0.24	0.23
New Hampshire	0.18	0.21	0.22	0.21	0.21	0.22	0.20	0.21	0.21	0.21
New Jersey	0.30	0.29	0.26	NA	0.31	0.34	0.30	0.31	0.30	0.31
New Mexico	NA	NA	NA	0.43	0.67	0.63	0.68	0.60	0.67	0.65
New York	NA	0.18	0.18	0.20	0.20	0.17	0.16	NA	NA	NA
North Carolina	NA	NA	0.26	0.25	NA	0.25	0.26	0.28	0.27	0.30
North Dakota	0.17	0.14	0.16	0.15	0.17	0.16	0.17	0.15	0.16	0.23
Ohio	NA	0.19	0.18	0.20	0.21	0.20	0.19	0.21	NA	0.21
Oklahoma	0.19	0.23	0.24	0.25	0.25	0.19	0.19	0.21	0.20	0.25
Oregon	0.17	0.17	0.17	NA	0.17	0.18	0.19	NA	0.23	0.24
Pennsylvania	0.21	0.19	0.19	0.20	0.19	0.20	0.20	0.22	0.22	NA
Rhode Island	0.33	0.35	0.32	0.21	0.20	0.22	0.25	0.23	0.24	0.21
South Carolina	0.16	0.18	0.18	0.18	0.17	0.17	0.19	0.18	NA	NA
South Dakota	0.15	0.15	0.15	0.16	NA	0.19	0.17	0.17	0.18	NA
Tennessee	0.17	0.17	NA	0.19	0.19	0.18	0.15	0.15	NA	NA
Texas	0.22	0.23	0.23	0.24	NA	0.24	0.29	NA	NA	0.27
Utah	0.26	0.25	0.26	0.26	0.23	0.24	0.24	0.26	NA	NA
Vermont	0.18	0.20	0.19	0.19	0.21	0.21	0.26	0.24	0.33	0.31
Virginia	NA	NA	0.25	0.26	0.25	0.24	0.26	NA	0.26	0.26
Washington	0.30	NA	NA	NA	NA	NA	NA	0.36	0.38	0.35

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	0.25	0.27	0.28	0.26	0.25	0.23	0.23	0.20	0.18	0.22
Wisconsin	0.19	0.20	0.21	0.22	0.24	0.21	0.23	0.20	0.21	0.16
Wyoming	0.32	0.36	0.42	0.38	0.42	0.40	0.38	0.36	0.35	0.40
Puerto Rico	0.33	0.30	0.30	0.36	NA	0.38	0.36	0.27	0.24	0.25

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

Recommended Citation: National Science Board. 2018. "Physical Scientists as a Percentage of All Occupations." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/physical-scientists-to-all-occupations

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Physical Scientists as a Percentage of All Occupations

(Percent)

State	2013	2014	2015	2016
United States	0.24	0.24	0.23	0.22
Alabama	0.17	NA	0.16	0.17
Alaska	0.69	0.66	0.59	0.52
Arizona	0.20	NA	0.16	0.15
Arkansas	0.12	0.11	NA	NA
California	0.32	0.31	0.29	0.27
Colorado	0.50	0.50	0.48	0.48
Connecticut	NA	0.21	0.19	NA
Delaware	1.02	0.99	NA	NA
District of Columbia	0.51	0.50	0.49	0.47
Florida	0.16	0.15	0.15	0.14
Georgia	0.14	0.13	0.12	NA
Hawaii	0.27	0.26	0.24	0.25
Idaho	0.35	0.34	0.33	0.27
Illinois	0.17	0.16	0.17	0.16
Indiana	0.22	NA	0.18	NA
Iowa	0.13	0.13	0.12	0.11
Kansas	0.19	0.17	0.16	0.13
Kentucky	0.13	0.13	0.15	0.15
Louisiana	0.19	0.18	0.18	0.19
Maine	0.21	0.22	0.21	0.21
Maryland	0.47	0.45	NA	0.40
Massachusetts	0.32	0.29	NA	0.24

State Indicators

State	2013	2014	2015	2016
Michigan	0.18	0.23	0.21	0.22
Minnesota	NA	0.21	NA	NA
Mississippi	0.19	0.18	0.16	0.15
Missouri	0.20	0.19	0.18	0.15
Montana	0.32	0.32	0.33	0.27
Nebraska	0.21	0.20	0.17	0.17
Nevada	0.23	0.21	0.22	0.20
New Hampshire	0.22	0.23	0.23	0.23
New Jersey	0.29	0.28	0.28	0.32
New Mexico	0.61	NA	0.62	NA
New York	NA	NA	NA	0.18
North Carolina	0.29	0.28	0.26	0.26
North Dakota	0.22	0.20	0.18	0.21
Ohio	NA	0.21	0.22	NA
Oklahoma	0.22	0.20	0.17	NA
Oregon	0.23	0.20	0.19	0.17
Pennsylvania	0.25	NA	NA	0.23
Rhode Island	0.20	0.20	0.20	0.20
South Carolina	NA	0.16	0.13	0.13
South Dakota	0.19	0.20	0.19	0.19
Tennessee	0.17	0.15	0.16	0.14
Texas	NA	0.27	0.24	0.24
Utah	0.21	0.21	0.21	0.20
Vermont	0.33	0.27	0.29	0.30
Virginia	NA	NA	NA	0.24
Washington	0.36	0.33	0.34	0.30

State Indicators

State	2013	2014	2015	2016
West Virginia	0.21	0.19	0.18	0.17
Wisconsin	0.16	0.16	0.20	0.19
Wyoming	0.41	0.39	0.38	0.37
Puerto Rico	0.27	0.28	0.25	0.25

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Physical scientists

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	271,030	278,750	280,810	291,380	297,640	301,500	302,980	305,360	309,320	319,810
Alabama	3,470	3,270	3,410	2,880	3,050	3,110	NA	NA	3,030	3,210
Alaska	1,370	1,350	1,340	1,150	1,400	1,600	1,790	1,770	1,880	2,160
Arizona	3,860	4,170	4,100	3,670	3,960	4,070	NA	NA	NA	4,430
Arkansas	1,420	1,710	1,570	1,390	1,790	1,140	1,430	1,420	NA	1,510
California	32,030	32,440	32,780	NA	NA	NA	39,960	40,530	41,230	43,200
Colorado	7,550	7,840	8,910	9,520	9,990	9,920	NA	NA	10,650	NA
Connecticut	3,500	3,700	3,590	2,920	2,710	NA	2,980	3,510	3,930	4,210
Delaware	1,980	1,830	2,040	1,550	1,690	1,770	2,730	2,610	2,950	3,960
District of Columbia	3,330	3,420	3,680	3,910	3,970	3,760	3,580	3,570	3,630	3,500
Florida	11,290	11,920	12,090	12,590	12,200	12,010	12,950	13,200	NA	12,260
Georgia	5,020	5,670	4,880	4,470	3,930	4,870	5,510	5,560	5,700	5,590
Hawaii	1,310	1,450	1,420	1,610	1,760	1,680	1,710	1,670	1,590	1,660
Idaho	1,570	1,680	1,700	1,600	1,160	1,340	1,420	1,550	1,660	1,750
Illinois	9,970	10,340	11,090	13,180	12,150	12,190	10,880	11,230	10,050	10,980
Indiana	4,080	4,390	4,740	NA	5,090	5,800	5,520	5,580	6,220	6,100
Iowa	1,690	NA	NA	1,830	1,430	1,570	1,490	1,460	1,460	1,840
Kansas	2,080	2,060	2,170	2,410	2,300	2,670	2,590	2,580	2,440	2,390
Kentucky	2,210	2,200	NA	2,270	2,430	NA	2,600	2,680	2,530	2,400
Louisiana	4,180	4,350	4,210	4,040	3,770	3,580	3,850	3,840	3,810	3,800
Maine	1,200	1,300	1,270	1,490	1,530	1,530	1,380	1,360	1,350	NA
Maryland	NA	9,410	9,660	9,630	10,470	11,630	10,990	NA	NA	12,210
Massachusetts	9,060	9,150	8,960	9,230	9,710	NA	9,360	NA	NA	NA
Michigan	NA	6,640	6,400	NA	6,410	6,970	7,000	6,880	NA	7,270

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	4,670	4,840	4,780	5,790	5,590	5,480	5,280	5,470	NA	5,220
Mississippi	1,930	1,910	1,970	2,100	2,030	2,160	2,220	NA	NA	2,150
Missouri	4,490	4,730	4,730	4,510	NA	NA	NA	4,660	NA	4,700
Montana	1,060	1,220	1,280	1,460	NA	NA	1,440	1,390	1,310	1,310
Nebraska	1,740	1,670	1,630	1,660	1,350	1,470	1,510	1,580	1,700	1,830
Nevada	2,010	2,060	2,100	2,370	2,230	2,250	2,380	2,410	2,650	2,550
New Hampshire	1,110	1,280	1,350	1,340	1,350	1,370	1,260	1,240	1,250	1,290
New Jersey	11,730	11,490	10,120	NA	12,490	13,620	11,510	11,610	11,430	11,950
New Mexico	NA	NA	NA	3,380	5,370	5,130	5,420	4,700	5,230	5,050
New York	NA	14,870	14,780	16,970	17,130	14,470	13,690	NA	NA	NA
North Carolina	NA	NA	9,750	9,700	NA	10,300	10,240	10,580	10,120	11,600
North Dakota	540	470	510	510	570	560	600	540	590	920
Ohio	NA	10,150	9,860	10,820	11,090	10,800	9,610	10,280	NA	10,860
Oklahoma	2,680	3,330	3,480	3,820	3,750	2,930	2,870	3,050	3,000	3,860
Oregon	2,570	2,720	2,730	NA	2,880	3,140	3,030	NA	3,570	3,890
Pennsylvania	11,800	10,680	10,750	11,440	10,940	11,460	11,340	12,040	12,290	NA
Rhode Island	1,570	1,690	1,550	1,030	970	1,030	1,160	1,040	1,080	950
South Carolina	2,750	3,270	3,280	3,320	3,180	3,130	3,350	3,130	NA	NA
South Dakota	560	560	550	610	NA	750	680	650	710	NA
Tennessee	4,420	4,440	NA	5,060	5,280	5,020	3,990	3,950	NA	NA
Texas	20,710	21,510	22,010	23,590	NA	24,680	29,510	NA	NA	29,050
Utah	2,690	2,690	2,820	3,030	2,790	2,940	2,860	2,940	NA	NA
Vermont	530	580	570	560	630	630	760	680	970	920
Virginia	NA	NA	8,790	9,260	9,210	8,890	9,190	NA	9,190	9,180
Washington	7,590	NA	NA	NA	NA	NA	NA	9,800	10,330	9,810
West Virginia	1,680	1,870	1,970	1,860	1,750	1,680	1,600	1,410	1,280	1,540

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	5,130	5,490	5,820	6,130	6,570	5,950	6,090	5,300	5,530	4,370
Wyoming	760	900	1,060	1,000	1,150	1,150	1,070	970	950	1,110
Puerto Rico	3,180	3,020	3,110	3,670	NA	3,780	3,460	2,560	2,230	2,360

NA not available

Science and Engineering Indicators 2018

State Indicators

Physical scientists

State	2013	2014	2015	2016
United States	322,260	321,030	312,710	308,900
Alabama	3,160	NA	3,070	3,180
Alaska	2,240	2,130	1,930	1,690
Arizona	4,950	NA	4,240	4,020
Arkansas	1,350	1,310	NA	NA
California	46,700	47,060	44,450	42,860
Colorado	11,480	11,740	11,840	12,080
Connecticut	NA	3,450	3,100	NA
Delaware	4,210	4,220	NA	NA
District of Columbia	3,420	3,390	3,320	3,330
Florida	11,640	11,490	11,710	11,770
Georgia	5,240	4,990	4,910	NA
Hawaii	1,620	1,580	1,500	1,560
Idaho	2,130	2,150	2,110	1,780
Illinois	9,960	9,460	9,790	9,590
Indiana	6,200	NA	5,180	NA
Iowa	1,870	1,910	1,860	1,700
Kansas	2,500	2,260	2,140	1,850
Kentucky	2,260	2,370	2,830	2,860
Louisiana	3,660	3,530	3,520	3,680
Maine	1,210	1,300	1,230	1,250
Maryland	11,960	11,620	NA	10,550
Massachusetts	10,450	9,560	NA	8,250
Michigan	7,360	9,180	8,810	9,180

State Indicators

State	2013	2014	2015	2016
Minnesota	NA	5,610	NA	NA
Mississippi	2,060	1,940	1,820	1,670
Missouri	5,160	5,130	4,870	4,260
Montana	1,420	1,440	1,460	1,220
Nebraska	1,990	1,880	1,620	1,660
Nevada	2,620	2,450	2,730	2,500
New Hampshire	1,380	1,470	1,450	1,460
New Jersey	11,220	10,690	10,880	12,490
New Mexico	4,800	NA	4,970	NA
New York	NA	NA	NA	16,410
North Carolina	11,360	11,230	10,780	11,030
North Dakota	950	880	810	890
Ohio	NA	10,930	11,440	NA
Oklahoma	3,440	3,130	2,750	NA
Oregon	3,740	3,380	3,280	3,010
Pennsylvania	14,290	NA	NA	13,230
Rhode Island	890	920	940	940
South Carolina	NA	2,940	2,430	2,660
South Dakota	780	800	770	780
Tennessee	4,510	4,090	4,430	4,030
Texas	NA	29,880	28,340	28,260
Utah	2,660	2,640	2,740	2,770
Vermont	970	800	870	920
Virginia	NA	NA	NA	8,890
Washington	10,060	9,490	10,060	9,220
West Virginia	1,460	1,310	1,280	1,170

State Indicators

State	2013	2014	2015	2016
Wisconsin	4,360	4,290	5,410	5,420
Wyoming	1,130	1,110	1,090	1,020
Puerto Rico	2,460	2,550	2,250	2,170

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	127,420,170	129,146,700	130,307,840	132,604,980	134,354,250	135,185,230	130,647,610	127,097,160	128,278,550	130,287,700
Alabama	1,817,240	1,851,040	1,872,600	1,912,220	1,931,970	1,945,300	1,863,620	1,807,480	1,809,420	1,824,400
Alaska	290,740	295,810	300,150	303,890	301,920	307,790	308,140	308,050	313,170	318,700
Arizona	2,275,410	2,370,810	2,437,100	2,574,150	2,648,000	2,637,830	2,479,120	2,367,120	2,380,200	2,414,340
Arkansas	1,118,690	1,133,800	1,142,370	1,166,840	1,172,760	1,176,050	1,147,660	1,135,560	1,139,670	1,155,020
California	14,460,860	14,598,250	14,723,900	15,065,750	15,202,530	15,212,610	14,532,640	14,001,730	14,038,950	14,303,630
Colorado	2,097,650	2,130,430	2,151,520	2,207,120	2,258,240	2,302,340	2,234,250	2,157,690	2,179,060	2,226,160
Connecticut	1,631,610	1,640,840	1,648,070	1,658,980	1,682,220	1,697,810	1,648,950	1,598,640	1,608,820	1,620,620
Delaware	403,650	413,940	417,550	424,270	425,960	425,210	412,570	397,730	403,430	405,750
District of Columbia	595,220	609,770	611,190	609,400	620,970	635,500	637,180	639,390	644,730	653,760
Florida	7,217,400	7,479,050	7,614,840	7,869,210	7,963,010	7,771,740	7,355,940	7,103,950	7,151,700	7,273,850
Georgia	3,770,430	3,848,740	3,904,020	4,001,580	4,058,370	4,068,270	3,889,160	3,744,740	3,779,250	3,815,530
Hawaii	557,400	573,890	583,630	599,130	610,310	612,420	587,810	571,630	577,220	588,210
Idaho	563,200	584,580	597,490	624,320	641,960	650,240	614,520	594,750	592,730	598,540
Illinois	5,719,150	5,739,250	5,767,100	5,826,660	5,894,670	5,910,630	5,704,240	5,528,420	5,574,180	5,640,740
Indiana	2,851,210	2,879,070	2,891,360	2,913,200	2,928,780	2,927,620	2,787,780	2,724,850	2,758,100	2,811,920
Iowa	1,413,220	1,433,570	1,446,550	1,470,240	1,488,360	1,502,600	1,471,130	1,438,510	1,449,110	1,470,740
Kansas	1,292,170	1,311,390	1,315,640	1,321,180	1,347,670	1,374,560	1,348,710	1,304,780	1,308,070	1,320,920
Kentucky	1,719,620	1,736,230	1,754,590	1,779,830	1,801,800	1,817,860	1,748,610	1,716,060	1,732,870	1,764,750
Louisiana	1,851,870	1,865,300	1,877,160	1,776,990	1,847,230	1,887,370	1,871,950	1,832,830	1,839,780	1,868,210
Maine	591,750	598,350	597,260	596,910	600,020	604,150	589,090	577,410	575,640	581,110
Maryland	2,448,580	2,477,280	2,497,220	2,531,180	2,551,910	2,561,530	2,503,410	2,462,470	2,480,670	2,510,680
Massachusetts	3,130,720	3,129,090	3,144,540	3,170,490	3,207,840	3,234,860	3,169,010	3,119,100	3,157,020	3,202,080
Michigan	4,310,420	4,324,840	4,334,870	4,294,260	4,210,550	4,142,750	3,893,900	3,755,890	3,829,000	3,918,120

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	2,591,720	2,625,060	2,635,370	2,682,940	2,687,740	2,704,860	2,627,640	2,562,450	2,595,450	2,641,110
Mississippi	1,089,350	1,101,680	1,108,540	1,113,000	1,128,980	1,138,210	1,096,890	1,070,820	1,073,100	1,080,420
Missouri	2,623,020	2,646,990	2,663,880	2,700,450	2,732,920	2,740,170	2,668,450	2,588,450	2,591,020	2,605,910
Montana	394,820	408,730	414,650	427,130	435,480	444,090	432,240	424,300	425,110	432,380
Nebraska	879,550	887,200	895,470	901,120	914,670	928,120	916,770	901,690	904,630	914,830
Nevada	1,086,110	1,154,440	1,191,640	1,257,860	1,285,470	1,278,230	1,179,860	1,113,530	1,112,780	1,127,160
New Hampshire	607,570	618,310	621,560	627,570	632,590	634,570	619,390	603,420	606,690	612,710
New Jersey	3,878,020	3,901,020	3,917,310	3,957,500	3,980,080	3,986,310	3,850,770	3,770,550	3,771,250	3,793,720
New Mexico	747,050	754,990	763,430	789,360	798,640	819,480	800,390	777,560	777,640	773,860
New York	8,236,200	8,299,910	8,333,460	8,387,750	8,515,960	8,633,580	8,487,020	8,344,020	8,427,560	8,542,280
North Carolina	3,702,170	3,770,700	3,809,690	3,892,670	4,013,460	4,063,420	3,896,750	3,772,780	3,814,860	3,878,800
North Dakota	314,620	324,430	328,520	335,740	341,970	350,360	353,630	355,710	371,630	403,290
Ohio	5,308,270	5,324,700	5,340,280	5,354,170	5,341,360	5,323,130	5,091,490	4,921,690	4,977,910	5,054,250
Oklahoma	1,416,640	1,436,380	1,455,940	1,503,430	1,528,890	1,557,750	1,525,330	1,483,760	1,498,260	1,529,900
Oregon	1,537,000	1,576,890	1,598,780	1,648,680	1,682,150	1,706,740	1,624,490	1,569,700	1,586,620	1,609,900
Pennsylvania	5,494,430	5,535,000	5,569,310	5,631,520	5,663,070	5,705,170	5,572,660	5,483,220	5,549,240	5,596,480
Rhode Island	477,320	480,290	479,810	482,550	485,870	478,420	458,760	448,150	450,980	453,020
South Carolina	1,764,170	1,792,190	1,802,740	1,840,190	1,877,950	1,892,690	1,802,900	1,746,820	1,772,880	1,796,550
South Dakota	364,970	371,010	373,500	381,230	389,400	395,960	392,890	387,590	392,670	398,680
Tennessee	2,614,830	2,665,060	2,686,580	2,718,410	2,739,230	2,755,800	2,625,140	2,569,420	2,602,320	2,657,280
Texas	9,248,660	9,306,600	9,424,510	9,760,960	10,061,750	10,391,420	10,289,240	10,089,870	10,304,370	10,579,400
Utah	1,043,500	1,077,210	1,099,230	1,151,020	1,206,180	1,230,320	1,185,770	1,148,520	1,165,980	1,200,850
Vermont	291,400	296,260	297,650	299,610	301,140	301,130	294,120	286,990	290,830	294,090
Virginia	3,412,070	3,494,250	3,535,500	3,608,430	3,645,330	3,670,980	3,589,520	3,527,350	3,553,360	3,597,100
Washington	2,560,190	2,614,640	2,653,320	2,736,910	2,811,700	2,868,910	2,789,670	2,693,220	2,720,660	2,764,080
West Virginia	680,200	692,840	697,390	710,560	713,230	717,740	704,310	688,170	700,250	710,540

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	2,687,400	2,717,970	2,727,430	2,744,210	2,768,830	2,776,690	2,689,710	2,608,740	2,645,180	2,673,280
Wyoming	240,730	246,670	251,590	262,260	273,170	283,980	282,450	269,910	272,570	278,040
Puerto Rico	962,000	1,022,610	1,026,290	1,031,650	NA	999,010	962,030	950,570	930,940	942,080

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2013	2014	2015	2016
United States	132,588,810	135,128,260	137,896,660	140,400,040
Alabama	1,844,080	1,857,530	1,883,310	1,912,990
Alaska	322,660	324,970	327,250	323,500
Arizona	2,475,660	2,526,990	2,587,070	2,652,990
Arkansas	1,152,600	1,158,790	1,176,130	1,191,320
California	14,714,530	15,119,730	15,496,600	15,966,580
Colorado	2,295,000	2,367,780	2,451,490	2,507,680
Connecticut	1,635,590	1,646,510	1,659,430	1,666,280
Delaware	412,140	424,330	433,840	440,760
District of Columbia	665,850	674,650	676,060	702,380
Florida	7,453,230	7,665,280	7,925,300	8,222,030
Georgia	3,879,660	3,983,250	4,107,960	4,214,410
Hawaii	602,200	612,580	619,960	632,120
Idaho	613,000	628,140	642,700	663,490
Illinois	5,704,700	5,765,880	5,852,710	5,903,820
Indiana	2,854,250	2,905,170	2,947,380	2,991,260
Iowa	1,491,600	1,512,740	1,526,950	1,534,910
Kansas	1,336,460	1,359,500	1,371,630	1,374,180
Kentucky	1,782,820	1,808,010	1,838,220	1,869,650
Louisiana	1,885,310	1,915,800	1,939,300	1,922,170
Maine	582,430	586,390	591,520	596,390
Maryland	2,534,480	2,557,510	2,596,630	2,640,900
Massachusetts	3,257,870	3,322,500	3,396,840	3,459,910
Michigan	3,998,790	4,073,730	4,146,600	4,212,090

State Indicators

State	2013	2014	2015	2016
Minnesota	2,688,580	2,730,020	2,772,240	2,810,400
Mississippi	1,083,560	1,094,070	1,106,550	1,117,280
Missouri	2,639,120	2,673,640	2,712,240	2,757,850
Montana	439,110	443,330	447,180	454,740
Nebraska	927,150	942,950	953,710	968,000
Nevada	1,151,970	1,189,610	1,232,800	1,270,930
New Hampshire	620,190	627,000	635,360	645,050
New Jersey	3,821,070	3,869,260	3,906,800	3,955,350
New Mexico	783,980	788,000	798,150	805,440
New York	8,635,400	8,810,950	8,984,890	9,097,650
North Carolina	3,947,030	4,030,880	4,125,070	4,231,020
North Dakota	422,930	440,420	447,820	425,200
Ohio	5,125,850	5,200,880	5,280,850	5,337,890
Oklahoma	1,558,860	1,577,330	1,597,130	1,586,890
Oregon	1,640,300	1,683,470	1,735,220	1,790,940
Pennsylvania	5,616,820	5,653,840	5,709,480	5,747,020
Rhode Island	456,100	463,930	471,290	475,190
South Carolina	1,826,120	1,876,480	1,928,140	1,979,820
South Dakota	402,990	409,250	413,260	417,520
Tennessee	2,700,050	2,749,480	2,814,230	2,893,040
Texas	10,913,950	11,228,940	11,572,540	11,745,250
Utah	1,242,690	1,280,660	1,324,460	1,374,900
Vermont	298,290	301,050	303,550	304,670
Virginia	3,631,440	3,648,490	3,682,450	3,760,550
Washington	2,827,200	2,898,350	2,983,930	3,067,110
West Virginia	709,430	707,720	707,000	697,440

State Indicators

State	2013	2014	2015	2016
Wisconsin	2,704,840	2,727,860	2,771,600	2,805,010
Wyoming	278,910	282,690	283,830	276,120
Puerto Rico	927,460	902,930	890,760	883,360
Science and Engineering Indicators 2018				

State Indicators

S-37 Social Scientists as a Percentage of All Occupations

Description

This indicator represents the percentage of social scientists in a state's workforce. Social scientists are identified from standard occupational codes that include economists; survey researchers; clinical, counseling, and school psychologists; industrial-organizational psychologists; sociologists; urban and regional planners; anthropologists and archeologists; geographers; political scientists; social scientists and related workers; social science research assistants; postsecondary anthropology and archeology teachers; postsecondary economics teachers; postsecondary geography teachers; postsecondary political science teachers; postsecondary psychology teachers; postsecondary sociology teachers; and other postsecondary social sciences teachers.

Data on individuals in social science occupations and total occupations come from the Bureau of Labor Statistics (BLS) Occupational Employment Statistics (OES) Survey, a survey of workplaces that assigns workers to a state based on where they work. Estimates are developed by BLS from data provided by state workforce agencies. The OES survey covers all full-time and part-time wage and salary workers in nonfarm industries. The survey does not cover the self-employed, owners and partners in unincorporated firms, household workers, or unpaid family workers. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

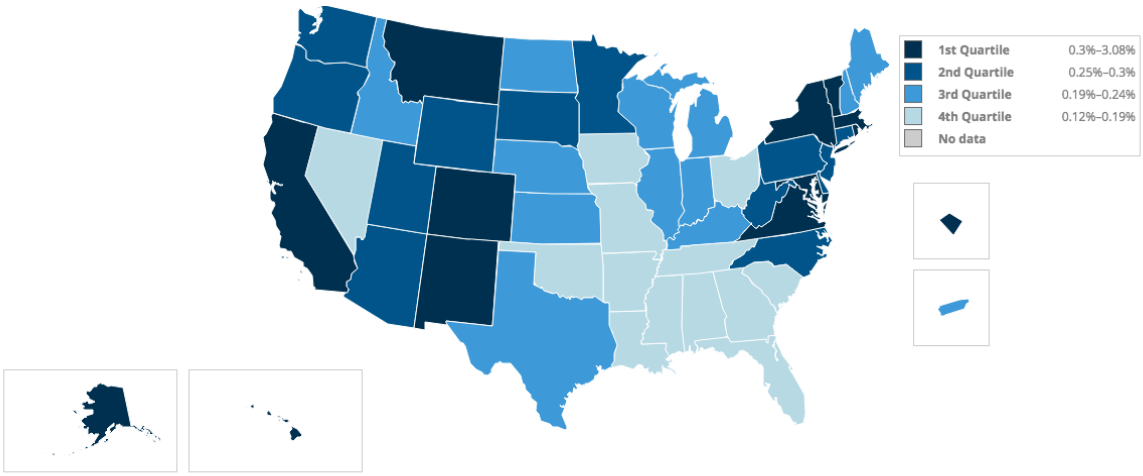
The District of Columbia has the greatest share of occupations in this category by a significant margin, likely because of a high concentration of political scientists and policy and social science researchers drawn to the federal government, international organizations, and various other policy institutions.

Data source: U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics Survey.

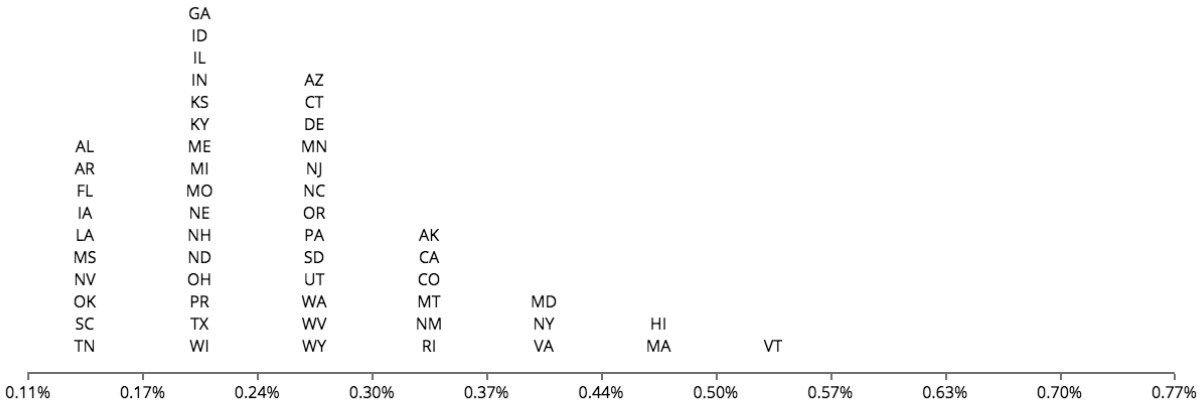
State Indicators

S-37 Social Scientists as a Percentage of All Occupations

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

Social Scientists as a Percentage of All Occupations

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	0.36	0.39	0.40	0.40	0.41	0.42	0.44	0.28	0.34	0.28
Alabama	0.19	0.22	0.23	0.21	0.18	0.16	NA	NA	0.16	0.14
Alaska	0.39	0.39	0.42	0.35	0.32	0.33	0.39	0.34	0.40	0.39
Arizona	0.34	0.34	0.34	0.33	0.34	0.34	0.39	0.33	0.44	0.30
Arkansas	0.20	0.23	0.22	0.21	0.26	0.28	0.31	0.18	0.21	0.17
California	0.39	0.41	0.43	0.42	0.43	0.47	0.53	0.33	0.42	0.35
Colorado	0.42	0.40	0.40	0.44	0.43	0.42	0.40	0.31	NA	0.31
Connecticut	0.53	0.54	0.52	0.47	0.45	0.47	0.49	0.33	0.42	0.34
Delaware	0.47	0.53	0.42	0.70	0.81	0.75	0.72	0.25	0.47	0.24
District of Columbia	2.25	2.59	2.93	2.84	2.74	2.75	2.64	2.28	2.50	2.41
Florida	0.28	0.31	0.33	0.31	0.27	0.26	0.28	NA	0.22	0.20
Georgia	0.27	0.27	0.29	0.29	0.31	0.33	0.37	0.22	0.26	0.19
Hawaii	0.34	0.41	0.39	0.45	0.47	0.46	0.50	0.49	0.46	0.43
Idaho	0.28	0.27	0.28	NA	0.39	0.32	0.34	0.25	0.30	0.31
Illinois	0.41	0.44	0.43	0.45	0.43	0.42	0.42	0.20	0.29	0.21
Indiana	0.21	0.22	0.22	0.21	0.22	0.25	0.29	0.22	0.27	0.22
Iowa	0.26	0.29	0.28	0.32	0.35	0.35	0.38	0.20	0.28	0.19
Kansas	0.38	0.35	0.36	0.36	0.38	0.44	0.46	0.29	0.34	0.27
Kentucky	0.23	0.24	0.25	0.25	0.27	0.27	0.28	0.23	0.25	0.22
Louisiana	0.20	0.19	0.18	0.19	NA	0.16	0.17	0.14	NA	NA
Maine	0.23	0.25	0.27	0.28	0.29	0.31	0.31	0.27	0.29	0.28
Maryland	0.53	0.55	0.58	0.55	0.59	0.59	0.60	NA	NA	0.42
Massachusetts	0.61	0.63	0.63	0.66	0.66	0.71	0.77	NA	NA	NA

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	0.33	0.30	0.31	0.34	0.36	0.42	0.42	0.26	0.29	0.24
Minnesota	0.46	0.52	0.53	0.54	0.54	0.52	0.52	0.24	0.35	0.23
Mississippi	0.18	0.17	0.17	0.19	0.20	0.23	0.26	0.22	0.21	NA
Missouri	0.25	0.28	0.33	0.35	0.35	0.31	0.30	0.19	0.23	0.20
Montana	0.31	0.38	0.42	0.41	NA	0.34	0.37	0.28	0.29	0.29
Nebraska	0.41	0.42	0.43	0.43	0.39	0.38	0.43	0.20	0.31	0.20
Nevada	0.24	0.29	0.25	0.28	0.24	0.22	0.24	0.17	0.22	0.16
New Hampshire	0.32	0.30	0.33	0.28	0.29	0.31	0.33	0.27	0.25	0.20
New Jersey	0.32	0.42	0.45	NA	0.44	0.38	0.38	0.20	0.25	0.21
New Mexico	0.38	0.47	0.47	0.42	0.44	0.52	0.49	0.49	0.34	0.33
New York	0.46	0.50	0.53	0.55	0.55	0.57	0.59	0.35	0.44	0.38
North Carolina	0.33	0.35	0.36	0.37	0.35	0.38	0.43	0.28	0.34	0.27
North Dakota	0.24	0.23	0.24	0.27	0.22	0.21	0.22	0.15	0.18	0.17
Ohio	0.31	0.32	NA	0.31	0.32	0.34	0.36	0.21	0.26	0.21
Oklahoma	0.37	0.32	0.32	0.35	0.33	0.33	0.31	0.21	0.35	0.32
Oregon	0.36	0.35	0.33	0.37	0.40	0.38	0.40	0.32	0.38	0.34
Pennsylvania	0.34	0.39	0.43	NA	0.47	0.49	NA	0.31	0.40	0.34
Rhode Island	0.42	0.38	0.34	0.36	0.36	0.36	0.36	0.29	0.37	0.38
South Carolina	0.26	0.22	0.21	0.22	0.23	0.26	0.28	0.20	0.23	0.20
South Dakota	0.23	0.26	0.31	0.29	0.28	0.27	0.28	0.26	0.26	NA
Tennessee	0.20	0.21	0.19	0.23	0.25	0.26	0.25	0.17	0.20	0.18
Texas	0.28	0.30	0.31	0.33	0.35	0.34	0.35	0.20	0.25	0.19
Utah	0.41	0.44	0.42	0.45	0.38	0.37	0.36	0.27	0.27	0.25
Vermont	0.56	0.58	0.64	0.69	0.71	0.67	0.68	0.42	0.53	0.45
Virginia	0.49	0.54	0.58	0.62	0.60	0.58	0.57	0.34	0.42	0.35
Washington	0.56	0.63	0.62	0.64	0.63	0.63	0.66	0.34	0.42	0.32

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	0.33	0.29	0.29	0.30	0.28	0.31	0.31	0.28	0.31	0.34
Wisconsin	0.38	0.37	0.39	0.37	0.36	0.34	0.36	0.22	0.26	0.22
Wyoming	0.29	0.34	0.33	0.34	0.34	0.36	NA	0.29	0.34	0.27
Puerto Rico	0.16	0.16	0.17	0.20	NA	0.22	0.23	0.12	0.17	0.13

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

Recommended Citation: National Science Board. 2018. "Social Scientists as a Percentage of All Occupations." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/social-scientists-to-all-occupations

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Science and Engineering Indicators 2018

State Indicators

Social Scientists as a Percentage of All Occupations

(Percent)

State	2013	2014	2015	2016
United States	0.28	0.27	0.27	0.27
Alabama	0.15	NA	0.13	0.12
Alaska	0.37	0.33	0.32	0.36
Arizona	0.27	0.25	0.30	0.28
Arkansas	0.18	0.17	NA	0.15
California	0.34	0.34	0.33	0.32
Colorado	0.30	0.30	0.29	0.30
Connecticut	0.31	0.29	0.30	0.28
Delaware	0.24	0.23	0.24	0.25
District of Columbia	2.50	2.77	2.80	3.08
Florida	0.19	0.19	0.16	0.15
Georgia	0.18	0.19	NA	0.18
Hawaii	0.41	0.45	0.44	0.45
Idaho	0.31	0.28	0.24	0.23
Illinois	0.21	0.19	0.19	0.20
Indiana	0.22	NA	0.20	0.20
Iowa	0.18	0.16	0.16	0.17
Kansas	0.26	0.20	0.20	0.20
Kentucky	0.22	0.21	0.20	0.21
Louisiana	0.11	0.12	0.12	0.12
Maine	0.27	0.24	0.24	0.23
Maryland	0.39	0.37	NA	0.39
Massachusetts	0.47	0.45	NA	0.45

State Indicators

State	2013	2014	2015	2016
Michigan	0.24	0.20	0.20	0.20
Minnesota	NA	0.24	NA	0.26
Mississippi	0.17	NA	0.15	0.13
Missouri	0.17	0.17	0.17	0.18
Montana	0.28	0.27	0.28	0.35
Nebraska	0.23	0.23	0.24	0.22
Nevada	0.15	0.15	0.15	0.15
New Hampshire	0.21	0.22	0.22	0.22
New Jersey	0.22	0.24	0.24	0.25
New Mexico	0.31	0.33	0.35	0.33
New York	0.41	NA	0.39	0.40
North Carolina	0.28	0.27	0.28	0.28
North Dakota	0.17	0.17	0.17	0.19
Ohio	0.21	0.20	NA	0.19
Oklahoma	0.33	0.17	0.17	0.17
Oregon	0.34	0.30	0.28	0.26
Pennsylvania	0.35	0.35	0.33	0.30
Rhode Island	0.36	0.33	0.32	0.32
South Carolina	0.20	0.18	0.16	0.17
South Dakota	0.24	0.25	0.27	0.26
Tennessee	0.18	0.18	0.19	0.17
Texas	0.20	0.19	0.19	0.19
Utah	0.26	0.28	0.29	0.28
Vermont	0.44	0.49	0.52	0.53
Virginia	0.37	0.38	0.40	0.42
Washington	NA	NA	0.31	0.30

State Indicators

State	2013	2014	2015	2016
West Virginia	0.38	0.37	0.39	0.30
Wisconsin	0.22	0.24	0.21	0.21
Wyoming	NA	0.28	0.29	0.27
Puerto Rico	0.16	0.20	0.22	0.24

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Science and Engineering Indicators 2018

State Indicators

Social scientists

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	461,060	497,280	517,950	536,880	545,360	561,160	568,730	349,820	433,320	364,100
Alabama	3,470	4,090	4,270	4,090	3,550	3,050	NA	NA	2,810	2,590
Alaska	1,130	1,150	1,260	1,070	970	1,020	1,200	1,040	1,250	1,230
Arizona	7,690	8,130	8,380	8,570	9,050	8,880	9,760	7,860	10,560	7,300
Arkansas	2,250	2,650	2,500	2,420	3,050	3,240	3,540	2,070	2,370	1,990
California	56,540	60,540	62,940	63,470	65,510	71,800	77,120	45,810	59,080	50,370
Colorado	8,760	8,510	8,600	9,660	9,770	9,570	8,960	6,610	NA	6,820
Connecticut	8,710	8,800	8,630	7,770	7,580	7,910	8,140	5,210	6,760	5,450
Delaware	1,910	2,180	1,760	2,980	3,450	3,200	2,960	1,000	1,890	960
District of Columbia	13,370	15,770	17,890	17,310	17,020	17,500	16,830	14,600	16,140	15,730
Florida	19,850	23,130	25,430	24,570	21,580	20,180	20,390	NA	15,780	14,300
Georgia	10,150	10,330	11,430	11,540	12,390	13,620	14,480	8,180	9,810	7,220
Hawaii	1,890	2,370	2,300	2,670	2,890	2,830	2,910	2,800	2,660	2,550
Idaho	1,590	1,560	1,650	NA	2,510	2,110	2,110	1,480	1,770	1,870
Illinois	23,590	25,210	24,970	25,970	25,470	25,100	24,140	11,180	16,440	11,700
Indiana	5,870	6,340	6,370	6,210	6,330	7,350	8,200	5,880	7,440	6,310
Iowa	3,740	4,090	4,100	4,700	5,200	5,280	5,520	2,870	4,010	2,770
Kansas	4,880	4,650	4,750	4,790	5,140	6,020	6,270	3,760	4,510	3,560
Kentucky	3,910	4,160	4,370	4,480	4,810	4,990	4,920	3,970	4,300	3,880
Louisiana	3,640	3,600	3,350	3,340	NA	3,090	3,250	2,520	NA	NA
Maine	1,340	1,470	1,630	1,690	1,740	1,880	1,810	1,560	1,660	1,610
Maryland	13,080	13,710	14,380	13,870	15,000	14,990	14,970	NA	NA	10,530
Massachusetts	19,160	19,610	19,830	20,870	21,300	22,900	24,290	NA	NA	NA
Michigan	14,330	13,090	13,440	14,590	15,360	17,260	16,440	9,920	11,280	9,400

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	11,940	13,670	14,090	14,400	14,540	14,000	13,790	6,160	9,170	6,000
Mississippi	1,950	1,890	1,890	2,090	2,230	2,600	2,810	2,360	2,260	NA
Missouri	6,490	7,440	8,840	9,430	9,550	8,410	7,950	4,960	5,900	5,200
Montana	1,220	1,540	1,750	1,740	NA	1,520	1,610	1,170	1,220	1,240
Nebraska	3,590	3,760	3,890	3,900	3,560	3,500	3,910	1,760	2,780	1,840
Nevada	2,650	3,350	2,980	3,500	3,130	2,870	2,790	1,900	2,490	1,760
New Hampshire	1,930	1,880	2,040	1,780	1,820	1,960	2,030	1,610	1,530	1,220
New Jersey	12,220	16,210	17,730	NA	17,390	15,270	14,510	7,640	9,380	7,850
New Mexico	2,810	3,540	3,580	3,340	3,510	4,240	3,920	3,830	2,660	2,520
New York	37,710	41,600	44,120	46,130	46,890	49,580	50,160	28,950	37,310	32,880
North Carolina	12,370	13,050	13,560	14,300	14,040	15,610	16,660	10,630	12,930	10,610
North Dakota	750	740	780	920	740	730	770	520	680	670
Ohio	16,360	16,890	NA	16,410	17,190	18,310	18,140	10,540	12,940	10,800
Oklahoma	5,220	4,600	4,660	5,220	5,090	5,180	4,670	3,050	5,270	4,840
Oregon	5,490	5,560	5,320	6,040	6,670	6,460	6,560	5,030	6,090	5,430
Pennsylvania	18,810	21,410	23,910	NA	26,550	28,000	NA	16,960	22,440	19,060
Rhode Island	2,020	1,830	1,650	1,730	1,760	1,730	1,660	1,320	1,660	1,720
South Carolina	4,550	3,890	3,720	4,000	4,320	4,830	5,030	3,570	4,110	3,630
South Dakota	830	960	1,150	1,110	1,100	1,060	1,100	1,020	1,010	NA
Tennessee	5,360	5,480	5,150	6,190	6,850	7,240	6,540	4,240	5,210	4,680
Texas	25,480	28,010	29,250	32,520	34,970	35,650	35,610	20,610	25,830	20,180
Utah	4,280	4,740	4,610	5,190	4,620	4,560	4,210	3,100	3,110	2,980
Vermont	1,640	1,710	1,900	2,060	2,140	2,020	2,010	1,200	1,530	1,310
Virginia	16,820	18,940	20,480	22,450	21,830	21,370	20,620	12,100	14,890	12,650
Washington	14,420	16,410	16,550	17,650	17,620	18,030	18,420	9,240	11,350	8,770
West Virginia	2,260	2,040	2,050	2,110	1,970	2,240	2,170	1,920	2,160	2,450

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	10,320	10,180	10,650	10,060	9,840	9,430	9,570	5,830	7,000	5,790
Wyoming	700	830	830	900	940	1,020	NA	770	930	740
Puerto Rico	1,560	1,660	1,750	2,090	NA	2,180	2,240	1,150	1,610	1,260

NA not available

Science and Engineering Indicators 2018

State Indicators

Social scientists

State	2013	2014	2015	2016
United States	371,660	370,860	371,400	377,070
Alabama	2,680	NA	2,530	2,290
Alaska	1,180	1,080	1,060	1,170
Arizona	6,780	6,400	7,720	7,350
Arkansas	2,070	1,980	NA	1,780
California	50,390	51,780	50,960	50,660
Colorado	6,910	7,210	7,220	7,630
Connecticut	5,140	4,770	4,940	4,680
Delaware	1,000	980	1,020	1,080
District of Columbia	16,660	18,660	18,900	21,630
Florida	14,500	14,320	12,720	12,740
Georgia	7,100	7,590	NA	7,420
Hawaii	2,490	2,750	2,730	2,840
Idaho	1,890	1,790	1,520	1,540
Illinois	11,820	10,980	10,950	11,990
Indiana	6,390	NA	5,760	5,940
Iowa	2,630	2,420	2,390	2,550
Kansas	3,480	2,690	2,720	2,700
Kentucky	3,900	3,720	3,750	3,870
Louisiana	2,000	2,240	2,280	2,310
Maine	1,600	1,410	1,420	1,380
Maryland	9,980	9,490	NA	10,350
Massachusetts	15,180	15,050	NA	15,700
Michigan	9,620	8,150	8,400	8,420

State Indicators

State	2013	2014	2015	2016
Minnesota	NA	6,530	NA	7,310
Mississippi	1,890	NA	1,680	1,450
Missouri	4,470	4,670	4,730	4,870
Montana	1,240	1,210	1,270	1,570
Nebraska	2,100	2,200	2,250	2,140
Nevada	1,770	1,730	1,800	1,880
New Hampshire	1,280	1,350	1,420	1,450
New Jersey	8,560	9,120	9,360	9,800
New Mexico	2,450	2,570	2,770	2,630
New York	35,100	NA	35,190	36,420
North Carolina	10,910	10,860	11,390	11,710
North Dakota	720	760	760	810
Ohio	10,680	10,250	NA	9,990
Oklahoma	5,150	2,730	2,740	2,690
Oregon	5,500	4,980	4,920	4,620
Pennsylvania	19,800	19,950	18,740	17,350
Rhode Island	1,650	1,540	1,520	1,530
South Carolina	3,600	3,310	3,120	3,340
South Dakota	950	1,010	1,120	1,090
Tennessee	4,870	5,070	5,290	4,800
Texas	21,410	21,790	22,340	22,510
Utah	3,170	3,620	3,790	3,810
Vermont	1,320	1,480	1,590	1,600
Virginia	13,450	13,980	14,770	15,700
Washington	NA	NA	9,130	9,240
West Virginia	2,680	2,630	2,740	2,090

State Indicators

State	2013	2014	2015	2016
Wisconsin	6,070	6,670	5,870	5,890
Wyoming	NA	790	810	740
Puerto Rico	1,530	1,790	1,940	2,100

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	127,420,170	129,146,700	130,307,840	132,604,980	134,354,250	135,185,230	130,647,610	127,097,160	128,278,550	130,287,700
Alabama	1,817,240	1,851,040	1,872,600	1,912,220	1,931,970	1,945,300	1,863,620	1,807,480	1,809,420	1,824,400
Alaska	290,740	295,810	300,150	303,890	301,920	307,790	308,140	308,050	313,170	318,700
Arizona	2,275,410	2,370,810	2,437,100	2,574,150	2,648,000	2,637,830	2,479,120	2,367,120	2,380,200	2,414,340
Arkansas	1,118,690	1,133,800	1,142,370	1,166,840	1,172,760	1,176,050	1,147,660	1,135,560	1,139,670	1,155,020
California	14,460,860	14,598,250	14,723,900	15,065,750	15,202,530	15,212,610	14,532,640	14,001,730	14,038,950	14,303,630
Colorado	2,097,650	2,130,430	2,151,520	2,207,120	2,258,240	2,302,340	2,234,250	2,157,690	2,179,060	2,226,160
Connecticut	1,631,610	1,640,840	1,648,070	1,658,980	1,682,220	1,697,810	1,648,950	1,598,640	1,608,820	1,620,620
Delaware	403,650	413,940	417,550	424,270	425,960	425,210	412,570	397,730	403,430	405,750
District of Columbia	595,220	609,770	611,190	609,400	620,970	635,500	637,180	639,390	644,730	653,760
Florida	7,217,400	7,479,050	7,614,840	7,869,210	7,963,010	7,771,740	7,355,940	7,103,950	7,151,700	7,273,850
Georgia	3,770,430	3,848,740	3,904,020	4,001,580	4,058,370	4,068,270	3,889,160	3,744,740	3,779,250	3,815,530
Hawaii	557,400	573,890	583,630	599,130	610,310	612,420	587,810	571,630	577,220	588,210
Idaho	563,200	584,580	597,490	624,320	641,960	650,240	614,520	594,750	592,730	598,540
Illinois	5,719,150	5,739,250	5,767,100	5,826,660	5,894,670	5,910,630	5,704,240	5,528,420	5,574,180	5,640,740
Indiana	2,851,210	2,879,070	2,891,360	2,913,200	2,928,780	2,927,620	2,787,780	2,724,850	2,758,100	2,811,920
Iowa	1,413,220	1,433,570	1,446,550	1,470,240	1,488,360	1,502,600	1,471,130	1,438,510	1,449,110	1,470,740
Kansas	1,292,170	1,311,390	1,315,640	1,321,180	1,347,670	1,374,560	1,348,710	1,304,780	1,308,070	1,320,920
Kentucky	1,719,620	1,736,230	1,754,590	1,779,830	1,801,800	1,817,860	1,748,610	1,716,060	1,732,870	1,764,750
Louisiana	1,851,870	1,865,300	1,877,160	1,776,990	1,847,230	1,887,370	1,871,950	1,832,830	1,839,780	1,868,210
Maine	591,750	598,350	597,260	596,910	600,020	604,150	589,090	577,410	575,640	581,110
Maryland	2,448,580	2,477,280	2,497,220	2,531,180	2,551,910	2,561,530	2,503,410	2,462,470	2,480,670	2,510,680
Massachusetts	3,130,720	3,129,090	3,144,540	3,170,490	3,207,840	3,234,860	3,169,010	3,119,100	3,157,020	3,202,080
Michigan	4,310,420	4,324,840	4,334,870	4,294,260	4,210,550	4,142,750	3,893,900	3,755,890	3,829,000	3,918,120

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	2,591,720	2,625,060	2,635,370	2,682,940	2,687,740	2,704,860	2,627,640	2,562,450	2,595,450	2,641,110
Mississippi	1,089,350	1,101,680	1,108,540	1,113,000	1,128,980	1,138,210	1,096,890	1,070,820	1,073,100	1,080,420
Missouri	2,623,020	2,646,990	2,663,880	2,700,450	2,732,920	2,740,170	2,668,450	2,588,450	2,591,020	2,605,910
Montana	394,820	408,730	414,650	427,130	435,480	444,090	432,240	424,300	425,110	432,380
Nebraska	879,550	887,200	895,470	901,120	914,670	928,120	916,770	901,690	904,630	914,830
Nevada	1,086,110	1,154,440	1,191,640	1,257,860	1,285,470	1,278,230	1,179,860	1,113,530	1,112,780	1,127,160
New Hampshire	607,570	618,310	621,560	627,570	632,590	634,570	619,390	603,420	606,690	612,710
New Jersey	3,878,020	3,901,020	3,917,310	3,957,500	3,980,080	3,986,310	3,850,770	3,770,550	3,771,250	3,793,720
New Mexico	747,050	754,990	763,430	789,360	798,640	819,480	800,390	777,560	777,640	773,860
New York	8,236,200	8,299,910	8,333,460	8,387,750	8,515,960	8,633,580	8,487,020	8,344,020	8,427,560	8,542,280
North Carolina	3,702,170	3,770,700	3,809,690	3,892,670	4,013,460	4,063,420	3,896,750	3,772,780	3,814,860	3,878,800
North Dakota	314,620	324,430	328,520	335,740	341,970	350,360	353,630	355,710	371,630	403,290
Ohio	5,308,270	5,324,700	5,340,280	5,354,170	5,341,360	5,323,130	5,091,490	4,921,690	4,977,910	5,054,250
Oklahoma	1,416,640	1,436,380	1,455,940	1,503,430	1,528,890	1,557,750	1,525,330	1,483,760	1,498,260	1,529,900
Oregon	1,537,000	1,576,890	1,598,780	1,648,680	1,682,150	1,706,740	1,624,490	1,569,700	1,586,620	1,609,900
Pennsylvania	5,494,430	5,535,000	5,569,310	5,631,520	5,663,070	5,705,170	5,572,660	5,483,220	5,549,240	5,596,480
Rhode Island	477,320	480,290	479,810	482,550	485,870	478,420	458,760	448,150	450,980	453,020
South Carolina	1,764,170	1,792,190	1,802,740	1,840,190	1,877,950	1,892,690	1,802,900	1,746,820	1,772,880	1,796,550
South Dakota	364,970	371,010	373,500	381,230	389,400	395,960	392,890	387,590	392,670	398,680
Tennessee	2,614,830	2,665,060	2,686,580	2,718,410	2,739,230	2,755,800	2,625,140	2,569,420	2,602,320	2,657,280
Texas	9,248,660	9,306,600	9,424,510	9,760,960	10,061,750	10,391,420	10,289,240	10,089,870	10,304,370	10,579,400
Utah	1,043,500	1,077,210	1,099,230	1,151,020	1,206,180	1,230,320	1,185,770	1,148,520	1,165,980	1,200,850
Vermont	291,400	296,260	297,650	299,610	301,140	301,130	294,120	286,990	290,830	294,090
Virginia	3,412,070	3,494,250	3,535,500	3,608,430	3,645,330	3,670,980	3,589,520	3,527,350	3,553,360	3,597,100
Washington	2,560,190	2,614,640	2,653,320	2,736,910	2,811,700	2,868,910	2,789,670	2,693,220	2,720,660	2,764,080
West Virginia	680,200	692,840	697,390	710,560	713,230	717,740	704,310	688,170	700,250	710,540

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	2,687,400	2,717,970	2,727,430	2,744,210	2,768,830	2,776,690	2,689,710	2,608,740	2,645,180	2,673,280
Wyoming	240,730	246,670	251,590	262,260	273,170	283,980	282,450	269,910	272,570	278,040
Puerto Rico	962,000	1,022,610	1,026,290	1,031,650	NA	999,010	962,030	950,570	930,940	942,080

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2013	2014	2015	2016
United States	132,588,810	135,128,260	137,896,660	140,400,040
Alabama	1,844,080	1,857,530	1,883,310	1,912,990
Alaska	322,660	324,970	327,250	323,500
Arizona	2,475,660	2,526,990	2,587,070	2,652,990
Arkansas	1,152,600	1,158,790	1,176,130	1,191,320
California	14,714,530	15,119,730	15,496,600	15,966,580
Colorado	2,295,000	2,367,780	2,451,490	2,507,680
Connecticut	1,635,590	1,646,510	1,659,430	1,666,280
Delaware	412,140	424,330	433,840	440,760
District of Columbia	665,850	674,650	676,060	702,380
Florida	7,453,230	7,665,280	7,925,300	8,222,030
Georgia	3,879,660	3,983,250	4,107,960	4,214,410
Hawaii	602,200	612,580	619,960	632,120
Idaho	613,000	628,140	642,700	663,490
Illinois	5,704,700	5,765,880	5,852,710	5,903,820
Indiana	2,854,250	2,905,170	2,947,380	2,991,260
Iowa	1,491,600	1,512,740	1,526,950	1,534,910
Kansas	1,336,460	1,359,500	1,371,630	1,374,180
Kentucky	1,782,820	1,808,010	1,838,220	1,869,650
Louisiana	1,885,310	1,915,800	1,939,300	1,922,170
Maine	582,430	586,390	591,520	596,390
Maryland	2,534,480	2,557,510	2,596,630	2,640,900
Massachusetts	3,257,870	3,322,500	3,396,840	3,459,910
Michigan	3,998,790	4,073,730	4,146,600	4,212,090

State Indicators

State	2013	2014	2015	2016
Minnesota	2,688,580	2,730,020	2,772,240	2,810,400
Mississippi	1,083,560	1,094,070	1,106,550	1,117,280
Missouri	2,639,120	2,673,640	2,712,240	2,757,850
Montana	439,110	443,330	447,180	454,740
Nebraska	927,150	942,950	953,710	968,000
Nevada	1,151,970	1,189,610	1,232,800	1,270,930
New Hampshire	620,190	627,000	635,360	645,050
New Jersey	3,821,070	3,869,260	3,906,800	3,955,350
New Mexico	783,980	788,000	798,150	805,440
New York	8,635,400	8,810,950	8,984,890	9,097,650
North Carolina	3,947,030	4,030,880	4,125,070	4,231,020
North Dakota	422,930	440,420	447,820	425,200
Ohio	5,125,850	5,200,880	5,280,850	5,337,890
Oklahoma	1,558,860	1,577,330	1,597,130	1,586,890
Oregon	1,640,300	1,683,470	1,735,220	1,790,940
Pennsylvania	5,616,820	5,653,840	5,709,480	5,747,020
Rhode Island	456,100	463,930	471,290	475,190
South Carolina	1,826,120	1,876,480	1,928,140	1,979,820
South Dakota	402,990	409,250	413,260	417,520
Tennessee	2,700,050	2,749,480	2,814,230	2,893,040
Texas	10,913,950	11,228,940	11,572,540	11,745,250
Utah	1,242,690	1,280,660	1,324,460	1,374,900
Vermont	298,290	301,050	303,550	304,670
Virginia	3,631,440	3,648,490	3,682,450	3,760,550
Washington	2,827,200	2,898,350	2,983,930	3,067,110
West Virginia	709,430	707,720	707,000	697,440

State Indicators

State	2013	2014	2015	2016
Wisconsin	2,704,840	2,727,860	2,771,600	2,805,010
Wyoming	278,910	282,690	283,830	276,120
Puerto Rico	927,460	902,930	890,760	883,360
Science and Engineering Indicators 2018				

State Indicators

S-38 Engineers as a Percentage of All Occupations

Description

Engineers design and operate production processes and create new products and services. This indicator represents the percentage of trained engineers in a state's workforce. It includes the standard occupational codes for engineering fields: aerospace, agricultural, biomedical, chemical, civil, computer hardware, electrical and electronics, environmental, industrial, marine and naval architectural, materials, mechanical, mining and geological, nuclear, and petroleum. Occupations also include postsecondary teachers in these fields.

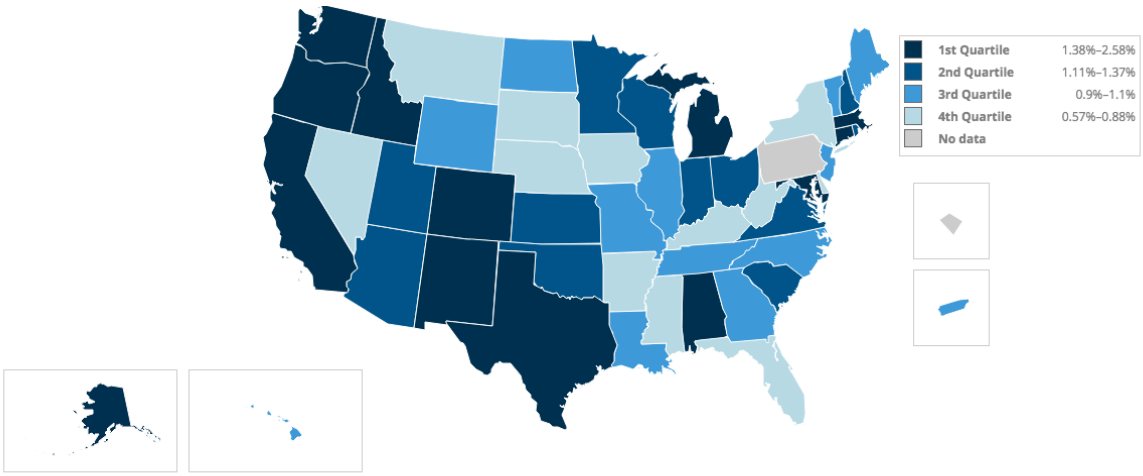
Data on individuals in engineering occupations and total occupations come from the Bureau of Labor Statistics (BLS) Occupational Employment Statistics (OES) Survey, a survey of workplaces that assigns workers to a state based on where they work. Estimates are developed by BLS from data provided by state workforce agencies. The OES survey covers all full-time and part-time wage and salary workers in nonfarm industries. The survey does not cover the self-employed, owners and partners in unincorporated firms, household workers, or unpaid family workers. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

Data source: U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics Survey.

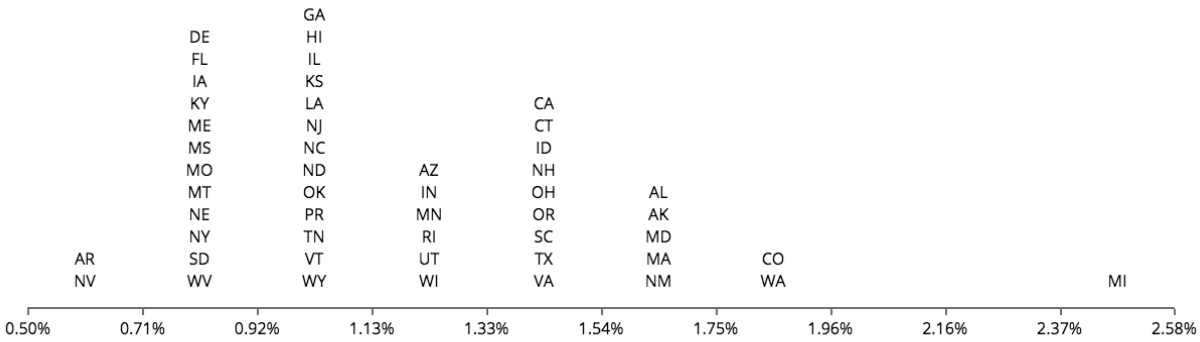
State Indicators

S-38 Engineers as a Percentage of All Occupations

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

Engineers as a Percentage of All Occupations

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	1.15	1.17	1.16	1.16	1.18	1.20	1.22	1.22	1.23	1.25
Alabama	1.19	1.25	1.31	1.37	1.44	1.36	1.45	1.52	1.52	1.60
Alaska	1.23	1.15	1.17	1.10	1.27	1.45	1.70	1.82	1.72	1.74
Arizona	1.52	1.55	1.45	1.38	1.34	1.36	1.36	NA	1.37	1.36
Arkansas	0.50	0.60	0.62	0.62	0.65	0.62	0.59	0.58	NA	0.60
California	1.47	1.56	1.55	1.54	1.59	1.58	1.58	1.59	1.60	1.64
Colorado	1.68	1.61	1.58	1.68	1.71	1.79	1.81	1.74	1.68	1.66
Connecticut	1.59	1.58	1.55	1.45	1.45	1.41	1.43	1.45	1.45	1.45
Delaware	0.85	0.95	0.99	1.13	1.13	1.20	1.13	1.33	1.19	1.21
District of Columbia	1.69	1.60	1.55	1.46	1.26	1.29	1.27	1.43	1.44	1.51
Florida	0.81	0.83	0.85	0.86	0.88	0.89	0.90	0.89	0.89	0.86
Georgia	0.80	0.80	0.78	0.75	0.82	0.89	0.95	0.96	0.93	0.95
Hawaii	0.84	0.83	0.81	0.90	0.82	0.82	0.84	0.90	0.95	0.99
Idaho	1.51	1.51	1.51	1.48	1.30	1.21	1.21	1.26	1.45	1.46
Illinois	1.02	1.01	1.05	0.98	0.96	0.94	0.99	1.05	1.04	1.09
Indiana	1.06	1.08	1.03	0.97	0.96	1.05	1.05	1.11	1.10	1.15
Iowa	NA	0.69	0.69	0.71	0.70	0.68	0.75	0.78	0.82	0.82
Kansas	1.54	1.45	1.42	1.32	1.25	1.23	1.30	1.13	1.24	1.16
Kentucky	0.76	0.76	0.77	0.73	0.75	0.76	0.82	0.79	0.86	0.83
Louisiana	0.86	0.81	0.77	0.86	0.82	0.97	1.06	NA	1.01	1.07
Maine	0.82	0.75	0.75	0.71	0.67	0.74	0.80	0.80	0.81	0.87
Maryland	1.37	1.49	1.48	1.46	1.52	1.54	1.59	1.61	1.57	1.64
Massachusetts	1.58	1.64	1.64	1.63	1.65	1.68	1.61	1.59	1.56	1.64

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	2.14	2.10	2.11	2.32	2.42	2.23	2.16	2.18	2.26	2.25
Minnesota	1.18	1.10	1.13	1.05	1.07	1.09	1.07	1.10	1.16	1.26
Mississippi	0.71	0.76	0.75	0.88	0.87	0.89	0.80	NA	0.78	NA
Missouri	0.77	0.86	0.83	0.85	0.95	0.95	0.93	0.89	0.89	0.89
Montana	0.68	0.64	0.63	0.66	0.73	0.80	0.81	0.90	0.87	0.93
Nebraska	0.67	0.64	0.67	0.65	0.64	0.68	0.68	0.66	0.68	0.69
Nevada	0.61	0.64	0.66	0.63	0.63	0.62	0.66	0.70	0.69	0.64
New Hampshire	1.23	1.31	1.26	1.29	1.29	1.24	1.29	1.33	1.40	1.35
New Jersey	0.96	0.99	0.96	0.96	1.00	1.02	1.01	1.00	1.02	1.03
New Mexico	1.70	1.40	1.38	1.38	1.41	1.40	1.54	1.65	1.62	1.60
New York	0.80	0.79	0.78	0.82	0.81	0.86	0.82	0.78	NA	0.73
North Carolina	0.84	0.82	0.80	0.77	0.81	0.82	0.84	0.86	0.93	0.95
North Dakota	0.68	0.65	0.71	0.75	0.73	0.72	0.76	0.83	0.89	0.87
Ohio	1.17	NA	1.12	1.08	1.08	1.13	1.16	1.15	1.17	1.20
Oklahoma	0.91	0.96	0.97	0.92	0.90	0.90	0.92	1.03	1.08	1.16
Oregon	1.17	1.22	1.10	NA	1.12	1.10	1.16	1.17	1.24	1.33
Pennsylvania	NA	NA	1.08	1.09	1.09	1.11	1.14	1.17	1.21	1.20
Rhode Island	1.06	1.14	1.13	1.13	1.08	1.08	1.12	1.17	1.14	1.13
South Carolina	1.13	1.20	1.17	1.22	1.18	1.20	1.24	1.29	1.41	1.47
South Dakota	0.55	0.55	0.56	0.58	NA	0.62	0.63	0.61	0.67	0.69
Tennessee	0.80	0.83	0.86	0.78	0.80	0.84	0.82	0.98	0.97	0.99
Texas	1.26	1.28	1.27	1.27	1.30	1.41	1.43	1.39	1.38	1.44
Utah	1.16	1.12	1.11	1.14	1.14	1.17	1.20	1.26	1.27	1.33
Vermont	1.24	1.26	1.27	1.26	1.22	1.26	1.25	1.29	1.02	1.06
Virginia	1.36	1.43	1.38	1.41	1.44	1.48	NA	1.51	1.52	1.50
Washington	1.78	NA	1.79	1.82	NA	1.93	NA	2.04	1.98	NA

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	0.72	0.71	0.67	0.74	0.75	0.74	0.71	0.72	0.72	0.70
Wisconsin	1.11	1.07	1.08	1.13	1.12	1.15	1.11	1.10	1.12	1.14
Wyoming	0.88	0.93	0.96	0.98	1.04	1.15	1.18	1.16	1.14	1.10
Puerto Rico	0.75	0.72	0.72	0.80	NA	0.80	0.86	0.78	0.79	0.81

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Engineers as a Percentage of All Occupations

(Percent)

State	2013	2014	2015	2016
United States	1.24	1.24	1.25	1.24
Alabama	1.65	1.63	1.67	1.68
Alaska	1.55	1.58	1.61	1.55
Arizona	1.35	1.29	1.22	1.24
Arkansas	0.61	0.63	0.60	0.61
California	1.61	1.60	1.55	1.45
Colorado	1.76	1.77	1.87	1.85
Connecticut	1.50	1.46	1.47	1.46
Delaware	0.93	0.95	0.88	0.86
District of Columbia	NA	NA	1.13	NA
Florida	0.80	0.76	0.77	0.78
Georgia	0.99	0.98	1.07	1.09
Hawaii	0.98	0.93	0.94	0.99
Idaho	1.38	1.31	1.37	1.43
Illinois	1.01	1.00	1.03	1.07
Indiana	1.24	1.27	1.24	1.15
Iowa	0.79	0.85	0.83	0.80
Kansas	1.14	1.03	1.04	1.11
Kentucky	0.87	0.83	0.87	0.83
Louisiana	1.10	1.13	1.10	1.03
Maine	0.92	0.91	0.91	0.91
Maryland	1.66	1.63	1.64	1.65
Massachusetts	1.61	1.64	1.63	1.66

State Indicators

State	2013	2014	2015	2016
Michigan	2.28	2.40	2.49	2.58
Minnesota	1.21	1.21	1.22	1.28
Mississippi	0.72	0.79	0.83	0.79
Missouri	0.87	0.87	0.89	0.90
Montana	0.89	0.86	0.89	0.88
Nebraska	0.74	0.75	0.76	0.78
Nevada	0.56	0.53	0.55	0.57
New Hampshire	1.35	1.30	1.33	1.37
New Jersey	1.03	0.99	0.97	0.97
New Mexico	1.63	1.61	1.73	1.72
New York	0.75	0.76	0.78	0.79
North Carolina	0.92	0.96	0.98	1.05
North Dakota	0.85	0.82	0.82	0.93
Ohio	1.21	1.25	1.31	1.34
Oklahoma	1.10	1.16	1.18	1.11
Oregon	1.38	1.35	1.46	1.48
Pennsylvania	1.15	NA	NA	NA
Rhode Island	1.15	1.14	1.13	1.16
South Carolina	1.47	1.40	1.39	1.37
South Dakota	0.73	0.74	0.78	0.75
Tennessee	1.03	1.06	1.03	0.98
Texas	1.41	1.39	1.36	1.38
Utah	1.42	1.43	1.31	1.29
Vermont	1.19	1.23	1.14	0.95
Virginia	1.46	1.42	1.36	1.34
Washington	NA	1.90	NA	1.87

State Indicators

State	2013	2014	2015	2016
West Virginia	0.70	0.74	0.81	0.78
Wisconsin	1.20	1.27	1.30	1.29
Wyoming	1.12	1.19	1.19	1.10
Puerto Rico	0.90	0.96	0.95	1.03

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
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Science and Engineering Indicators 2018

State Indicators

Engineers

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	1,465,670	1,508,960	1,514,180	1,543,900	1,588,350	1,626,330	1,587,880	1,554,780	1,574,830	1,629,470
Alabama	21,660	23,050	24,580	26,210	27,860	26,430	26,990	27,480	27,500	29,240
Alaska	3,570	3,410	3,500	3,330	3,820	4,450	5,250	5,600	5,390	5,540
Arizona	34,500	36,630	35,420	35,630	35,490	35,850	33,650	NA	32,580	32,880
Arkansas	5,610	6,760	7,130	7,210	7,670	7,340	6,750	6,630	NA	6,940
California	212,620	227,310	227,820	231,480	241,970	240,860	230,000	222,580	225,090	234,600
Colorado	35,180	34,390	34,010	37,040	38,580	41,130	40,330	37,590	36,530	37,050
Connecticut	26,020	25,960	25,480	24,070	24,310	23,920	23,620	23,210	23,330	23,480
Delaware	3,440	3,950	4,120	4,810	4,830	5,120	4,670	5,270	4,820	4,910
District of Columbia	10,070	9,760	9,500	8,920	7,840	8,220	8,100	9,140	9,310	9,840
Florida	58,300	61,830	64,510	67,810	70,400	69,040	66,140	63,170	63,350	62,860
Georgia	30,060	30,620	30,320	30,170	33,080	36,020	36,980	36,040	35,020	36,360
Hawaii	4,670	4,770	4,740	5,380	5,020	5,020	4,950	5,150	5,490	5,800
Idaho	8,530	8,830	9,030	9,270	8,360	7,870	7,410	7,490	8,600	8,760
Illinois	58,150	58,180	60,470	57,270	56,380	55,840	56,700	58,000	57,850	61,420
Indiana	30,110	31,160	29,710	28,380	28,110	30,780	29,380	30,150	30,440	32,230
Iowa	NA	9,820	9,990	10,420	10,410	10,270	10,970	11,210	11,930	12,100
Kansas	19,870	19,080	18,680	17,480	16,910	16,930	17,550	14,680	16,190	15,320
Kentucky	13,090	13,230	13,460	12,950	13,520	13,880	14,330	13,530	14,940	14,690
Louisiana	15,940	15,130	14,530	15,250	15,170	18,270	19,750	NA	18,510	19,940
Maine	4,880	4,510	4,480	4,230	4,000	4,480	4,740	4,620	4,680	5,070
Maryland	33,610	36,910	37,040	36,880	38,730	39,390	39,750	39,750	38,890	41,130
Massachusetts	49,430	51,450	51,600	51,750	52,820	54,330	51,070	49,510	49,290	52,610
Michigan	92,190	91,000	91,520	99,680	101,730	92,190	84,280	81,730	86,470	87,980

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	30,650	28,990	29,830	28,280	28,790	29,490	28,200	28,280	30,220	33,210
Mississippi	7,770	8,320	8,280	9,830	9,790	10,160	8,790	NA	8,320	NA
Missouri	20,090	22,700	22,020	22,870	25,880	25,950	24,770	22,910	22,940	23,100
Montana	2,680	2,600	2,620	2,840	3,200	3,570	3,500	3,810	3,680	4,020
Nebraska	5,890	5,690	6,000	5,820	5,840	6,350	6,250	5,940	6,130	6,330
Nevada	6,660	7,380	7,820	7,960	8,100	7,870	7,750	7,840	7,680	7,180
New Hampshire	7,490	8,120	7,810	8,090	8,140	7,870	8,020	8,000	8,500	8,290
New Jersey	37,190	38,540	37,510	38,130	39,960	40,720	38,960	37,870	38,540	39,140
New Mexico	12,710	10,550	10,530	10,870	11,290	11,500	12,360	12,830	12,570	12,350
New York	65,600	65,710	65,290	68,540	69,400	74,570	69,380	65,420	NA	61,980
North Carolina	31,020	31,030	30,340	30,040	32,500	33,400	32,850	32,620	35,420	36,710
North Dakota	2,130	2,100	2,320	2,520	2,500	2,530	2,670	2,950	3,310	3,520
Ohio	61,960	NA	59,820	57,810	57,720	60,120	59,030	56,790	58,100	60,790
Oklahoma	12,830	13,830	14,100	13,840	13,690	14,040	14,000	15,350	16,120	17,740
Oregon	17,970	19,260	17,520	NA	18,870	18,740	18,790	18,320	19,600	21,440
Pennsylvania	NA	NA	59,890	61,620	61,720	63,340	63,790	63,940	67,160	66,970
Rhode Island	5,080	5,470	5,400	5,430	5,240	5,150	5,120	5,230	5,120	5,110
South Carolina	19,960	21,560	21,010	22,460	22,210	22,750	22,310	22,570	24,920	26,470
South Dakota	1,990	2,040	2,090	2,210	NA	2,440	2,470	2,380	2,630	2,770
Tennessee	20,880	22,000	23,110	21,230	21,940	23,130	21,600	25,260	25,340	26,420
Texas	116,160	119,360	120,120	123,990	130,990	146,520	147,410	140,560	142,270	152,120
Utah	12,120	12,050	12,210	13,090	13,810	14,350	14,180	14,430	14,850	15,940
Vermont	3,600	3,730	3,770	3,780	3,670	3,790	3,670	3,700	2,970	3,120
Virginia	46,400	49,810	48,910	50,780	52,570	54,280	NA	53,270	54,030	54,050
Washington	45,460	NA	47,570	49,840	NA	55,490	NA	54,830	53,880	NA
West Virginia	4,890	4,920	4,680	5,230	5,340	5,320	4,970	4,960	5,010	4,990

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	29,850	29,170	29,490	30,990	31,010	32,010	29,880	28,820	29,550	30,570
Wyoming	2,110	2,300	2,420	2,570	2,840	3,260	3,320	3,140	3,100	3,050
Puerto Rico	7,200	7,370	7,420	8,280	NA	7,990	8,260	7,460	7,360	7,640

NA not available

Science and Engineering Indicators 2018

State Indicators

Engineers

State	2013	2014	2015	2016
United States	1,648,180	1,679,210	1,719,940	1,747,760
Alabama	30,360	30,370	31,370	32,050
Alaska	5,010	5,120	5,270	5,010
Arizona	33,330	32,510	31,570	32,790
Arkansas	7,070	7,350	7,100	7,230
California	237,270	241,200	239,870	232,050
Colorado	40,350	41,850	45,800	46,290
Connecticut	24,610	24,080	24,440	24,280
Delaware	3,850	4,050	3,800	3,800
District of Columbia	NA	NA	7,640	NA
Florida	59,810	58,590	60,900	63,950
Georgia	38,550	39,030	44,150	45,990
Hawaii	5,900	5,710	5,830	6,280
Idaho	8,440	8,240	8,790	9,500
Illinois	57,460	57,710	60,440	63,040
Indiana	35,300	36,840	36,560	34,270
Iowa	11,730	12,870	12,690	12,220
Kansas	15,170	14,010	14,220	15,220
Kentucky	15,480	15,010	15,950	15,590
Louisiana	20,810	21,700	21,360	19,710
Maine	5,370	5,340	5,370	5,430
Maryland	42,130	41,760	42,620	43,560
Massachusetts	52,300	54,390	55,240	57,510
Michigan	91,100	97,930	103,160	108,700

State Indicators

State	2013	2014	2015	2016
Minnesota	32,450	33,050	33,930	36,070
Mississippi	7,850	8,590	9,150	8,820
Missouri	22,900	23,190	24,210	24,890
Montana	3,920	3,830	4,000	4,010
Nebraska	6,860	7,050	7,240	7,520
Nevada	6,420	6,320	6,750	7,290
New Hampshire	8,390	8,130	8,430	8,830
New Jersey	39,420	38,260	38,030	38,300
New Mexico	12,800	12,650	13,810	13,850
New York	64,420	67,030	70,040	71,600
North Carolina	36,440	38,830	40,610	44,420
North Dakota	3,610	3,590	3,670	3,940
Ohio	62,010	65,270	68,930	71,740
Oklahoma	17,160	18,270	18,890	17,550
Oregon	22,680	22,760	25,320	26,420
Pennsylvania	64,340	NA	NA	NA
Rhode Island	5,230	5,310	5,340	5,490
South Carolina	26,870	26,260	26,850	27,150
South Dakota	2,950	3,030	3,240	3,140
Tennessee	27,730	29,050	28,860	28,430
Texas	153,970	156,060	157,520	161,680
Utah	17,600	18,310	17,370	17,770
Vermont	3,550	3,690	3,470	2,900
Virginia	53,190	51,990	50,220	50,270
Washington	NA	55,070	NA	57,410
West Virginia	4,980	5,220	5,700	5,430

State Indicators

State	2013	2014	2015	2016
Wisconsin	32,460	34,710	36,080	36,170
Wyoming	3,120	3,360	3,390	3,030
Puerto Rico	8,320	8,690	8,490	9,070

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	127,420,170	129,146,700	130,307,840	132,604,980	134,354,250	135,185,230	130,647,610	127,097,160	128,278,550	130,287,700
Alabama	1,817,240	1,851,040	1,872,600	1,912,220	1,931,970	1,945,300	1,863,620	1,807,480	1,809,420	1,824,400
Alaska	290,740	295,810	300,150	303,890	301,920	307,790	308,140	308,050	313,170	318,700
Arizona	2,275,410	2,370,810	2,437,100	2,574,150	2,648,000	2,637,830	2,479,120	2,367,120	2,380,200	2,414,340
Arkansas	1,118,690	1,133,800	1,142,370	1,166,840	1,172,760	1,176,050	1,147,660	1,135,560	1,139,670	1,155,020
California	14,460,860	14,598,250	14,723,900	15,065,750	15,202,530	15,212,610	14,532,640	14,001,730	14,038,950	14,303,630
Colorado	2,097,650	2,130,430	2,151,520	2,207,120	2,258,240	2,302,340	2,234,250	2,157,690	2,179,060	2,226,160
Connecticut	1,631,610	1,640,840	1,648,070	1,658,980	1,682,220	1,697,810	1,648,950	1,598,640	1,608,820	1,620,620
Delaware	403,650	413,940	417,550	424,270	425,960	425,210	412,570	397,730	403,430	405,750
District of Columbia	595,220	609,770	611,190	609,400	620,970	635,500	637,180	639,390	644,730	653,760
Florida	7,217,400	7,479,050	7,614,840	7,869,210	7,963,010	7,771,740	7,355,940	7,103,950	7,151,700	7,273,850
Georgia	3,770,430	3,848,740	3,904,020	4,001,580	4,058,370	4,068,270	3,889,160	3,744,740	3,779,250	3,815,530
Hawaii	557,400	573,890	583,630	599,130	610,310	612,420	587,810	571,630	577,220	588,210
Idaho	563,200	584,580	597,490	624,320	641,960	650,240	614,520	594,750	592,730	598,540
Illinois	5,719,150	5,739,250	5,767,100	5,826,660	5,894,670	5,910,630	5,704,240	5,528,420	5,574,180	5,640,740
Indiana	2,851,210	2,879,070	2,891,360	2,913,200	2,928,780	2,927,620	2,787,780	2,724,850	2,758,100	2,811,920
Iowa	1,413,220	1,433,570	1,446,550	1,470,240	1,488,360	1,502,600	1,471,130	1,438,510	1,449,110	1,470,740
Kansas	1,292,170	1,311,390	1,315,640	1,321,180	1,347,670	1,374,560	1,348,710	1,304,780	1,308,070	1,320,920
Kentucky	1,719,620	1,736,230	1,754,590	1,779,830	1,801,800	1,817,860	1,748,610	1,716,060	1,732,870	1,764,750
Louisiana	1,851,870	1,865,300	1,877,160	1,776,990	1,847,230	1,887,370	1,871,950	1,832,830	1,839,780	1,868,210
Maine	591,750	598,350	597,260	596,910	600,020	604,150	589,090	577,410	575,640	581,110
Maryland	2,448,580	2,477,280	2,497,220	2,531,180	2,551,910	2,561,530	2,503,410	2,462,470	2,480,670	2,510,680
Massachusetts	3,130,720	3,129,090	3,144,540	3,170,490	3,207,840	3,234,860	3,169,010	3,119,100	3,157,020	3,202,080
Michigan	4,310,420	4,324,840	4,334,870	4,294,260	4,210,550	4,142,750	3,893,900	3,755,890	3,829,000	3,918,120

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	2,591,720	2,625,060	2,635,370	2,682,940	2,687,740	2,704,860	2,627,640	2,562,450	2,595,450	2,641,110
Mississippi	1,089,350	1,101,680	1,108,540	1,113,000	1,128,980	1,138,210	1,096,890	1,070,820	1,073,100	1,080,420
Missouri	2,623,020	2,646,990	2,663,880	2,700,450	2,732,920	2,740,170	2,668,450	2,588,450	2,591,020	2,605,910
Montana	394,820	408,730	414,650	427,130	435,480	444,090	432,240	424,300	425,110	432,380
Nebraska	879,550	887,200	895,470	901,120	914,670	928,120	916,770	901,690	904,630	914,830
Nevada	1,086,110	1,154,440	1,191,640	1,257,860	1,285,470	1,278,230	1,179,860	1,113,530	1,112,780	1,127,160
New Hampshire	607,570	618,310	621,560	627,570	632,590	634,570	619,390	603,420	606,690	612,710
New Jersey	3,878,020	3,901,020	3,917,310	3,957,500	3,980,080	3,986,310	3,850,770	3,770,550	3,771,250	3,793,720
New Mexico	747,050	754,990	763,430	789,360	798,640	819,480	800,390	777,560	777,640	773,860
New York	8,236,200	8,299,910	8,333,460	8,387,750	8,515,960	8,633,580	8,487,020	8,344,020	8,427,560	8,542,280
North Carolina	3,702,170	3,770,700	3,809,690	3,892,670	4,013,460	4,063,420	3,896,750	3,772,780	3,814,860	3,878,800
North Dakota	314,620	324,430	328,520	335,740	341,970	350,360	353,630	355,710	371,630	403,290
Ohio	5,308,270	5,324,700	5,340,280	5,354,170	5,341,360	5,323,130	5,091,490	4,921,690	4,977,910	5,054,250
Oklahoma	1,416,640	1,436,380	1,455,940	1,503,430	1,528,890	1,557,750	1,525,330	1,483,760	1,498,260	1,529,900
Oregon	1,537,000	1,576,890	1,598,780	1,648,680	1,682,150	1,706,740	1,624,490	1,569,700	1,586,620	1,609,900
Pennsylvania	5,494,430	5,535,000	5,569,310	5,631,520	5,663,070	5,705,170	5,572,660	5,483,220	5,549,240	5,596,480
Rhode Island	477,320	480,290	479,810	482,550	485,870	478,420	458,760	448,150	450,980	453,020
South Carolina	1,764,170	1,792,190	1,802,740	1,840,190	1,877,950	1,892,690	1,802,900	1,746,820	1,772,880	1,796,550
South Dakota	364,970	371,010	373,500	381,230	389,400	395,960	392,890	387,590	392,670	398,680
Tennessee	2,614,830	2,665,060	2,686,580	2,718,410	2,739,230	2,755,800	2,625,140	2,569,420	2,602,320	2,657,280
Texas	9,248,660	9,306,600	9,424,510	9,760,960	10,061,750	10,391,420	10,289,240	10,089,870	10,304,370	10,579,400
Utah	1,043,500	1,077,210	1,099,230	1,151,020	1,206,180	1,230,320	1,185,770	1,148,520	1,165,980	1,200,850
Vermont	291,400	296,260	297,650	299,610	301,140	301,130	294,120	286,990	290,830	294,090
Virginia	3,412,070	3,494,250	3,535,500	3,608,430	3,645,330	3,670,980	3,589,520	3,527,350	3,553,360	3,597,100
Washington	2,560,190	2,614,640	2,653,320	2,736,910	2,811,700	2,868,910	2,789,670	2,693,220	2,720,660	2,764,080
West Virginia	680,200	692,840	697,390	710,560	713,230	717,740	704,310	688,170	700,250	710,540

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	2,687,400	2,717,970	2,727,430	2,744,210	2,768,830	2,776,690	2,689,710	2,608,740	2,645,180	2,673,280
Wyoming	240,730	246,670	251,590	262,260	273,170	283,980	282,450	269,910	272,570	278,040
Puerto Rico	962,000	1,022,610	1,026,290	1,031,650	NA	999,010	962,030	950,570	930,940	942,080

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2013	2014	2015	2016
United States	132,588,810	135,128,260	137,896,660	140,400,040
Alabama	1,844,080	1,857,530	1,883,310	1,912,990
Alaska	322,660	324,970	327,250	323,500
Arizona	2,475,660	2,526,990	2,587,070	2,652,990
Arkansas	1,152,600	1,158,790	1,176,130	1,191,320
California	14,714,530	15,119,730	15,496,600	15,966,580
Colorado	2,295,000	2,367,780	2,451,490	2,507,680
Connecticut	1,635,590	1,646,510	1,659,430	1,666,280
Delaware	412,140	424,330	433,840	440,760
District of Columbia	665,850	674,650	676,060	702,380
Florida	7,453,230	7,665,280	7,925,300	8,222,030
Georgia	3,879,660	3,983,250	4,107,960	4,214,410
Hawaii	602,200	612,580	619,960	632,120
Idaho	613,000	628,140	642,700	663,490
Illinois	5,704,700	5,765,880	5,852,710	5,903,820
Indiana	2,854,250	2,905,170	2,947,380	2,991,260
Iowa	1,491,600	1,512,740	1,526,950	1,534,910
Kansas	1,336,460	1,359,500	1,371,630	1,374,180
Kentucky	1,782,820	1,808,010	1,838,220	1,869,650
Louisiana	1,885,310	1,915,800	1,939,300	1,922,170
Maine	582,430	586,390	591,520	596,390
Maryland	2,534,480	2,557,510	2,596,630	2,640,900
Massachusetts	3,257,870	3,322,500	3,396,840	3,459,910
Michigan	3,998,790	4,073,730	4,146,600	4,212,090

State Indicators

State	2013	2014	2015	2016
Minnesota	2,688,580	2,730,020	2,772,240	2,810,400
Mississippi	1,083,560	1,094,070	1,106,550	1,117,280
Missouri	2,639,120	2,673,640	2,712,240	2,757,850
Montana	439,110	443,330	447,180	454,740
Nebraska	927,150	942,950	953,710	968,000
Nevada	1,151,970	1,189,610	1,232,800	1,270,930
New Hampshire	620,190	627,000	635,360	645,050
New Jersey	3,821,070	3,869,260	3,906,800	3,955,350
New Mexico	783,980	788,000	798,150	805,440
New York	8,635,400	8,810,950	8,984,890	9,097,650
North Carolina	3,947,030	4,030,880	4,125,070	4,231,020
North Dakota	422,930	440,420	447,820	425,200
Ohio	5,125,850	5,200,880	5,280,850	5,337,890
Oklahoma	1,558,860	1,577,330	1,597,130	1,586,890
Oregon	1,640,300	1,683,470	1,735,220	1,790,940
Pennsylvania	5,616,820	5,653,840	5,709,480	5,747,020
Rhode Island	456,100	463,930	471,290	475,190
South Carolina	1,826,120	1,876,480	1,928,140	1,979,820
South Dakota	402,990	409,250	413,260	417,520
Tennessee	2,700,050	2,749,480	2,814,230	2,893,040
Texas	10,913,950	11,228,940	11,572,540	11,745,250
Utah	1,242,690	1,280,660	1,324,460	1,374,900
Vermont	298,290	301,050	303,550	304,670
Virginia	3,631,440	3,648,490	3,682,450	3,760,550
Washington	2,827,200	2,898,350	2,983,930	3,067,110
West Virginia	709,430	707,720	707,000	697,440

State Indicators

State	2013	2014	2015	2016
Wisconsin	2,704,840	2,727,860	2,771,600	2,805,010
Wyoming	278,910	282,690	283,830	276,120
Puerto Rico	927,460	902,930	890,760	883,360
Science and Engineering Indicators 2018				

State Indicators

S-39 Technical Workers as a Percentage of All Occupations

Description

Technical workers consist of a diverse group, including managers in the areas of computer and information science, engineering, or the natural sciences; computer programmers; surveyors, drafters working in architecture, civil engineering, electronics, or mechanical engineering; and technicians in a wide variety of technical fields. Scientists and engineers are not included in this indicator.

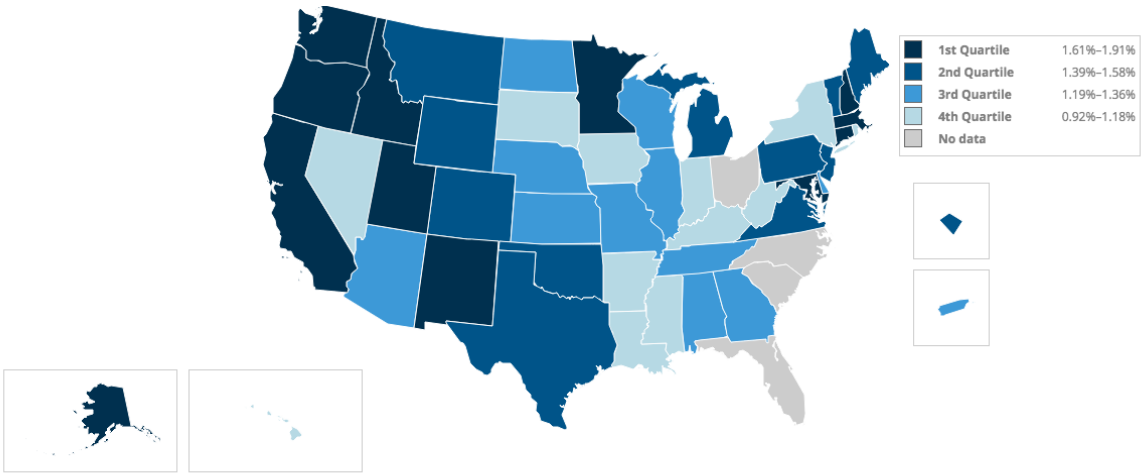
Data on technical workers' occupations and total occupations come from the Bureau of Labor Statistics (BLS) Occupational Employment Statistics (OES) Survey, a survey of workplaces that assigns workers to a state based on where they work. Estimates are developed by BLS from data provided by state workforce agencies. The OES survey covers all full-time and part-time wage and salary workers in nonfarm industries. The survey does not cover the self-employed, owners and partners in unincorporated firms, household workers, or unpaid family workers. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

Data source: U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics Survey.

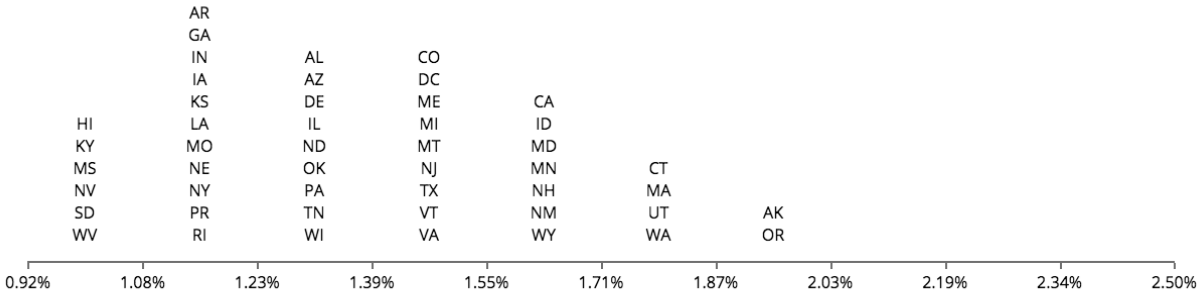
State Indicators

S-39 Technical Workers as a Percentage of All Occupations

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

Technical Workers as a Percentage of All Occupations

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	1.61	1.57	1.55	1.53	1.53	1.53	1.52	1.48	1.47	1.45
Alabama	1.53	1.52	1.53	1.43	1.35	1.29	1.36	1.40	1.32	1.30
Alaska	2.21	2.21	2.28	2.27	2.26	2.26	2.31	2.24	2.13	2.11
Arizona	1.81	1.64	1.63	1.64	1.74	1.78	1.66	1.59	1.54	1.57
Arkansas	1.07	1.07	1.11	1.10	1.14	1.15	1.16	1.05	1.04	1.05
California	NA	1.68	1.63	NA	1.65	1.63	1.65	1.65	1.73	1.72
Colorado	1.94	1.85	1.84	1.76	1.73	1.63	1.61	1.53	1.53	1.49
Connecticut	1.87	1.81	1.81	1.79	1.79	1.83	1.87	1.82	1.74	1.66
Delaware	2.00	1.95	1.78	1.86	2.01	2.16	1.84	1.70	1.63	1.77
District of Columbia	2.12	2.13	2.04	1.95	1.83	1.78	1.86	1.84	1.89	1.82
Florida	1.36	1.34	1.29	1.28	1.23	1.22	1.19	1.13	1.11	1.07
Georgia	1.48	1.44	1.42	1.34	1.27	1.23	NA	1.20	1.23	1.28
Hawaii	1.12	1.20	1.22	1.20	1.19	1.16	1.14	1.13	1.13	1.12
Idaho	1.84	1.82	2.09	NA	2.01	2.39	2.48	2.50	2.28	2.06
Illinois	1.44	1.43	1.46	1.39	1.33	1.34	1.35	1.35	1.31	1.27
Indiana	1.40	1.39	1.30	1.22	1.23	1.24	1.24	1.24	1.28	1.27
Iowa	1.21	1.12	1.12	1.14	1.27	1.30	1.29	1.23	1.20	1.18
Kansas	1.46	1.36	1.40	1.41	1.37	1.48	1.55	1.39	1.40	1.32
Kentucky	NA	1.22	1.14	1.08	1.03	NA	1.07	1.05	1.02	0.98
Louisiana	1.37	1.28	1.23	1.30	1.34	1.33	1.34	1.29	1.30	1.25
Maine	1.46	1.47	1.44	1.45	1.37	1.40	1.43	1.37	1.32	1.30
Maryland	2.06	1.97	2.00	1.84	1.85	1.84	1.92	1.86	1.89	1.95
Massachusetts	1.98	1.94	1.89	1.94	1.98	1.98	1.98	1.96	1.98	1.98

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	2.13	1.92	1.84	1.81	1.75	1.75	1.72	1.74	1.72	1.72
Minnesota	1.85	1.81	1.83	1.79	1.76	1.75	1.74	1.72	1.73	1.72
Mississippi	1.03	1.07	1.09	1.31	1.21	1.30	1.08	1.02	0.98	0.98
Missouri	1.49	1.36	1.30	1.36	1.26	1.37	1.28	1.19	1.16	1.16
Montana	1.59	1.70	1.95	1.99	1.86	NA	1.93	1.91	1.83	1.86
Nebraska	1.42	1.37	1.36	1.29	1.23	1.16	1.14	1.16	1.17	1.12
Nevada	1.05	1.08	1.10	1.11	1.01	1.04	1.04	1.01	0.98	1.00
New Hampshire	1.56	1.61	1.57	1.54	1.54	1.64	1.72	1.66	1.69	1.51
New Jersey	1.93	1.87	1.78	1.73	1.70	1.72	1.76	1.68	1.61	1.51
New Mexico	2.31	2.14	2.20	2.12	2.07	2.02	2.03	2.03	1.93	2.08
New York	1.34	1.35	1.35	1.35	1.43	1.47	1.53	NA	1.33	1.25
North Carolina	1.56	1.51	1.52	1.49	1.55	1.54	1.50	1.39	1.32	1.31
North Dakota	1.36	1.36	1.31	1.33	1.21	1.34	1.39	1.42	1.22	1.21
Ohio	1.43	1.38	1.36	1.31	1.29	1.29	1.30	1.29	1.25	NA
Oklahoma	1.35	1.37	1.32	1.30	1.32	1.29	1.28	1.30	1.41	1.43
Oregon	1.76	1.80	1.84	1.92	1.90	1.84	1.75	NA	NA	1.83
Pennsylvania	1.56	1.50	1.44	1.44	1.44	1.45	NA	NA	NA	NA
Rhode Island	1.38	1.39	1.39	1.36	1.42	1.38	1.36	1.34	1.30	1.20
South Carolina	1.50	1.48	1.45	1.47	1.44	1.45	1.41	1.37	1.31	1.27
South Dakota	1.10	1.06	1.15	1.11	0.97	1.01	0.99	1.00	0.98	1.01
Tennessee	1.37	1.37	1.33	1.26	1.20	1.13	1.11	1.11	1.18	1.13
Texas	1.75	1.76	1.75	1.76	1.81	1.79	1.70	1.61	1.56	1.55
Utah	1.83	1.91	1.98	1.99	1.91	1.94	1.87	1.70	1.77	1.80
Vermont	1.68	1.55	1.47	1.54	1.44	1.48	1.40	1.40	1.53	1.49
Virginia	1.96	1.87	1.88	1.78	1.76	1.71	1.70	1.69	1.72	1.70
Washington	1.95	1.94	1.94	1.89	1.96	NA	2.07	2.02	2.08	NA

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	1.44	1.35	1.28	1.26	1.19	1.19	1.24	1.24	1.25	1.11
Wisconsin	1.42	1.41	1.44	1.44	1.51	1.48	1.45	1.38	1.39	1.39
Wyoming	1.43	1.38	1.62	1.57	1.42	1.48	1.45	1.50	1.52	1.50
Puerto Rico	1.19	1.14	1.16	1.20	NA	1.08	1.16	1.09	1.12	1.13

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories; Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Technical Workers as a Percentage of All Occupations

(Percent)

State	2013	2014	2015	2016
United States	1.44	1.42	1.40	1.37
Alabama	1.36	1.34	1.36	1.36
Alaska	2.12	1.98	1.97	1.89
Arizona	1.66	1.56	1.54	1.36
Arkansas	1.07	1.10	1.06	1.09
California	1.68	NA	NA	1.64
Colorado	1.52	1.52	1.52	1.49
Connecticut	1.65	1.67	1.67	1.83
Delaware	1.55	1.53	1.34	1.31
District of Columbia	1.69	1.60	1.45	1.44
Florida	1.04	0.99	0.94	NA
Georgia	1.30	NA	NA	1.19
Hawaii	1.09	1.06	1.09	1.05
Idaho	1.82	1.72	1.68	1.69
Illinois	1.30	1.30	1.30	1.30
Indiana	1.34	1.27	1.21	1.16
Iowa	1.21	1.18	1.14	1.18
Kansas	1.34	1.21	1.19	1.21
Kentucky	0.92	0.92	0.94	0.92
Louisiana	1.23	1.17	1.18	1.14
Maine	1.30	1.32	1.34	1.40
Maryland	1.85	1.70	1.69	1.70
Massachusetts	1.91	1.87	1.90	1.86

State Indicators

State	2013	2014	2015	2016
Michigan	1.67	1.60	1.55	1.47
Minnesota	1.60	1.67	1.71	1.66
Mississippi	1.02	1.01	1.02	0.98
Missouri	1.23	1.19	1.22	1.22
Montana	1.73	1.74	1.66	1.55
Nebraska	1.12	1.14	1.18	1.21
Nevada	0.95	0.98	1.03	1.03
New Hampshire	1.48	1.58	1.62	1.61
New Jersey	1.56	1.59	1.57	1.45
New Mexico	2.00	1.98	1.84	1.68
New York	1.21	1.18	1.16	1.12
North Carolina	1.28	1.29	1.27	NA
North Dakota	1.18	1.14	1.21	1.27
Ohio	1.25	1.27	1.20	NA
Oklahoma	1.42	1.51	1.52	1.39
Oregon	1.86	1.87	1.88	1.91
Pennsylvania	1.31	1.35	1.39	1.39
Rhode Island	1.16	1.11	1.17	1.08
South Carolina	1.20	1.17	1.16	NA
South Dakota	0.96	0.95	0.93	0.94
Tennessee	NA	1.17	1.25	1.24
Texas	1.54	1.56	1.51	1.40
Utah	1.75	1.64	1.60	1.80
Vermont	1.58	1.52	1.48	1.43
Virginia	1.60	1.57	1.53	1.52
Washington	2.15	1.93	1.88	1.78

State Indicators

State	2013	2014	2015	2016
West Virginia	1.01	0.92	0.97	1.04
Wisconsin	1.42	1.40	1.39	1.34
Wyoming	NA	1.69	1.67	1.58
Puerto Rico	1.19	1.22	1.17	1.19

NA not available

Note(s):
Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories; Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

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U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Technical workers

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	2,046,150	2,030,040	2,022,670	2,034,070	2,054,960	2,071,260	1,989,840	1,877,370	1,882,050	1,888,050
Alabama	27,880	28,190	28,700	27,300	26,170	25,000	25,310	25,250	23,920	23,770
Alaska	6,420	6,530	6,850	6,900	6,830	6,950	7,110	6,900	6,680	6,730
Arizona	41,120	38,870	39,640	42,320	45,980	46,960	41,160	37,680	36,590	37,860
Arkansas	11,950	12,160	12,710	12,810	13,340	13,470	13,270	11,910	11,820	12,160
California	NA	244,920	240,060	NA	251,380	248,640	239,100	231,630	243,090	246,680
Colorado	40,620	39,310	39,570	38,760	39,050	37,480	35,960	33,070	33,240	33,200
Connecticut	30,530	29,770	29,890	29,700	30,060	31,020	30,910	29,140	28,050	26,880
Delaware	8,060	8,070	7,420	7,910	8,550	9,170	7,600	6,750	6,560	7,190
District of Columbia	12,590	12,960	12,490	11,870	11,360	11,310	11,820	11,790	12,170	11,880
Florida	98,180	99,880	97,880	100,520	97,980	94,870	87,520	80,170	79,280	78,110
Georgia	55,790	55,470	55,530	53,720	51,420	49,960	NA	44,830	46,510	48,930
Hawaii	6,260	6,910	7,140	7,200	7,260	7,090	6,700	6,450	6,550	6,570
Idaho	10,350	10,650	12,480	NA	12,880	15,520	15,260	14,880	13,490	12,350
Illinois	82,440	82,190	84,150	81,220	78,540	78,950	77,150	74,590	73,020	71,670
Indiana	40,000	40,070	37,470	35,480	36,080	36,430	34,590	33,810	35,350	35,600
Iowa	17,140	16,040	16,250	16,800	18,850	19,560	19,020	17,650	17,350	17,410
Kansas	18,870	17,830	18,430	18,640	18,420	20,380	20,940	18,090	18,320	17,460
Kentucky	NA	21,120	19,990	19,200	18,510	NA	18,640	17,990	17,750	17,330
Louisiana	25,330	23,830	23,160	23,040	24,710	25,160	25,010	23,730	23,960	23,430
Maine	8,630	8,790	8,600	8,640	8,200	8,450	8,400	7,910	7,580	7,540
Maryland	50,380	48,900	49,860	46,580	47,100	47,210	48,190	45,900	47,000	48,880
Massachusetts	61,960	60,710	59,460	61,560	63,400	64,150	62,720	61,110	62,520	63,310
Michigan	91,840	83,090	79,790	77,810	73,500	72,440	66,860	65,340	65,960	67,450

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	48,000	47,440	48,330	48,150	47,250	47,300	45,750	44,080	44,920	45,380
Mississippi	11,220	11,750	12,130	14,580	13,620	14,790	11,820	10,920	10,530	10,630
Missouri	38,990	35,900	34,500	36,650	34,560	37,420	34,280	30,930	30,050	30,340
Montana	6,280	6,940	8,100	8,490	8,100	NA	8,350	8,120	7,800	8,050
Nebraska	12,500	12,130	12,150	11,590	11,260	10,780	10,490	10,500	10,550	10,290
Nevada	11,430	12,490	13,120	13,950	12,980	13,310	12,250	11,300	10,870	11,270
New Hampshire	9,450	9,960	9,750	9,650	9,760	10,410	10,660	10,010	10,230	9,280
New Jersey	74,830	72,920	69,760	68,390	67,710	68,530	67,630	63,350	60,680	57,440
New Mexico	17,250	16,150	16,810	16,770	16,540	16,560	16,240	15,750	15,010	16,120
New York	110,090	112,270	112,900	113,310	121,560	126,730	129,570	NA	112,000	106,730
North Carolina	57,700	57,000	58,070	57,880	62,140	62,530	58,610	52,580	50,300	50,890
North Dakota	4,270	4,400	4,310	4,460	4,130	4,710	4,910	5,050	4,550	4,870
Ohio	76,140	73,280	72,820	70,130	68,930	68,590	66,000	63,510	62,370	NA
Oklahoma	19,180	19,670	19,230	19,550	20,250	20,040	19,510	19,350	21,070	21,810
Oregon	27,040	28,340	29,490	31,730	31,980	31,440	28,460	NA	NA	29,410
Pennsylvania	85,860	83,170	79,970	80,910	81,430	82,850	NA	NA	NA	NA
Rhode Island	6,610	6,690	6,680	6,560	6,920	6,600	6,230	5,990	5,860	5,430
South Carolina	26,510	26,570	26,120	26,970	26,970	27,370	25,350	23,860	23,220	22,870
South Dakota	4,000	3,930	4,310	4,240	3,790	3,990	3,870	3,860	3,860	4,040
Tennessee	35,840	36,530	35,670	34,360	32,890	31,230	29,070	28,440	30,730	30,050
Texas	162,020	163,780	164,620	172,080	181,730	186,370	175,280	162,150	161,240	163,880
Utah	19,090	20,610	21,810	22,940	23,090	23,910	22,220	19,470	20,630	21,620
Vermont	4,900	4,590	4,390	4,610	4,350	4,450	4,110	4,030	4,450	4,390
Virginia	66,840	65,460	66,400	64,070	64,330	62,770	60,980	59,520	60,950	61,190
Washington	50,050	50,650	51,590	51,770	55,080	NA	57,630	54,330	56,610	NA
West Virginia	9,770	9,350	8,910	8,930	8,500	8,530	8,730	8,550	8,720	7,910

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	38,190	38,410	39,190	39,420	41,690	41,160	39,030	35,950	36,720	37,050
Wyoming	3,450	3,400	4,080	4,130	3,870	4,210	4,100	4,050	4,130	4,170
Puerto Rico	11,440	11,660	11,930	12,400	NA	10,750	11,120	10,400	10,460	10,640

NA not available

Science and Engineering Indicators 2018

State Indicators

Technical workers

State	2013	2014	2015	2016
United States	1,905,870	1,915,310	1,935,480	1,918,590
Alabama	25,030	24,840	25,570	25,940
Alaska	6,830	6,450	6,460	6,100
Arizona	41,140	39,500	39,890	36,140
Arkansas	12,280	12,730	12,430	12,940
California	246,730	NA	NA	261,830
Colorado	34,930	35,910	37,280	37,420
Connecticut	27,020	27,470	27,710	30,420
Delaware	6,390	6,490	5,830	5,790
District of Columbia	11,230	10,820	9,780	10,110
Florida	77,850	75,970	74,710	NA
Georgia	50,500	NA	NA	50,220
Hawaii	6,560	6,500	6,730	6,630
Idaho	11,130	10,800	10,780	11,240
Illinois	73,960	74,690	76,370	76,550
Indiana	38,210	36,930	35,660	34,640
Iowa	18,030	17,840	17,390	18,120
Kansas	17,970	16,410	16,290	16,680
Kentucky	16,470	16,600	17,320	17,180
Louisiana	23,200	22,510	22,790	21,950
Maine	7,580	7,760	7,950	8,350
Maryland	46,900	43,580	43,770	44,950
Massachusetts	62,180	62,140	64,700	64,440
Michigan	66,930	65,200	64,260	62,080

State Indicators

State	2013	2014	2015	2016
Minnesota	42,930	45,610	47,370	46,740
Mississippi	11,100	11,010	11,310	10,930
Missouri	32,390	31,890	33,140	33,670
Montana	7,600	7,700	7,430	7,030
Nebraska	10,420	10,790	11,250	11,670
Nevada	10,920	11,680	12,670	13,130
New Hampshire	9,200	9,890	10,290	10,400
New Jersey	59,640	61,560	61,520	57,520
New Mexico	15,680	15,570	14,720	13,570
New York	104,440	103,820	103,870	101,650
North Carolina	50,530	51,940	52,310	NA
North Dakota	5,010	5,020	5,430	5,380
Ohio	63,950	65,850	63,320	NA
Oklahoma	22,090	23,780	24,270	21,980
Oregon	30,490	31,460	32,640	34,260
Pennsylvania	73,720	76,200	79,160	79,600
Rhode Island	5,280	5,160	5,530	5,150
South Carolina	21,870	21,990	22,280	NA
South Dakota	3,870	3,890	3,840	3,930
Tennessee	NA	32,260	35,150	35,770
Texas	167,580	174,670	174,200	164,480
Utah	21,720	21,010	21,180	24,790
Vermont	4,710	4,590	4,500	4,360
Virginia	58,240	57,440	56,510	57,320
Washington	60,800	56,020	56,150	54,510
West Virginia	7,200	6,540	6,850	7,230

State Indicators

State	2013	2014	2015	2016
Wisconsin	38,520	38,310	38,590	37,690
Wyoming	NA	4,790	4,750	4,350
Puerto Rico	11,020	11,060	10,400	10,550

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	127,420,170	129,146,700	130,307,840	132,604,980	134,354,250	135,185,230	130,647,610	127,097,160	128,278,550	130,287,700
Alabama	1,817,240	1,851,040	1,872,600	1,912,220	1,931,970	1,945,300	1,863,620	1,807,480	1,809,420	1,824,400
Alaska	290,740	295,810	300,150	303,890	301,920	307,790	308,140	308,050	313,170	318,700
Arizona	2,275,410	2,370,810	2,437,100	2,574,150	2,648,000	2,637,830	2,479,120	2,367,120	2,380,200	2,414,340
Arkansas	1,118,690	1,133,800	1,142,370	1,166,840	1,172,760	1,176,050	1,147,660	1,135,560	1,139,670	1,155,020
California	14,460,860	14,598,250	14,723,900	15,065,750	15,202,530	15,212,610	14,532,640	14,001,730	14,038,950	14,303,630
Colorado	2,097,650	2,130,430	2,151,520	2,207,120	2,258,240	2,302,340	2,234,250	2,157,690	2,179,060	2,226,160
Connecticut	1,631,610	1,640,840	1,648,070	1,658,980	1,682,220	1,697,810	1,648,950	1,598,640	1,608,820	1,620,620
Delaware	403,650	413,940	417,550	424,270	425,960	425,210	412,570	397,730	403,430	405,750
District of Columbia	595,220	609,770	611,190	609,400	620,970	635,500	637,180	639,390	644,730	653,760
Florida	7,217,400	7,479,050	7,614,840	7,869,210	7,963,010	7,771,740	7,355,940	7,103,950	7,151,700	7,273,850
Georgia	3,770,430	3,848,740	3,904,020	4,001,580	4,058,370	4,068,270	3,889,160	3,744,740	3,779,250	3,815,530
Hawaii	557,400	573,890	583,630	599,130	610,310	612,420	587,810	571,630	577,220	588,210
Idaho	563,200	584,580	597,490	624,320	641,960	650,240	614,520	594,750	592,730	598,540
Illinois	5,719,150	5,739,250	5,767,100	5,826,660	5,894,670	5,910,630	5,704,240	5,528,420	5,574,180	5,640,740
Indiana	2,851,210	2,879,070	2,891,360	2,913,200	2,928,780	2,927,620	2,787,780	2,724,850	2,758,100	2,811,920
Iowa	1,413,220	1,433,570	1,446,550	1,470,240	1,488,360	1,502,600	1,471,130	1,438,510	1,449,110	1,470,740
Kansas	1,292,170	1,311,390	1,315,640	1,321,180	1,347,670	1,374,560	1,348,710	1,304,780	1,308,070	1,320,920
Kentucky	1,719,620	1,736,230	1,754,590	1,779,830	1,801,800	1,817,860	1,748,610	1,716,060	1,732,870	1,764,750
Louisiana	1,851,870	1,865,300	1,877,160	1,776,990	1,847,230	1,887,370	1,871,950	1,832,830	1,839,780	1,868,210
Maine	591,750	598,350	597,260	596,910	600,020	604,150	589,090	577,410	575,640	581,110
Maryland	2,448,580	2,477,280	2,497,220	2,531,180	2,551,910	2,561,530	2,503,410	2,462,470	2,480,670	2,510,680
Massachusetts	3,130,720	3,129,090	3,144,540	3,170,490	3,207,840	3,234,860	3,169,010	3,119,100	3,157,020	3,202,080
Michigan	4,310,420	4,324,840	4,334,870	4,294,260	4,210,550	4,142,750	3,893,900	3,755,890	3,829,000	3,918,120

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	2,591,720	2,625,060	2,635,370	2,682,940	2,687,740	2,704,860	2,627,640	2,562,450	2,595,450	2,641,110
Mississippi	1,089,350	1,101,680	1,108,540	1,113,000	1,128,980	1,138,210	1,096,890	1,070,820	1,073,100	1,080,420
Missouri	2,623,020	2,646,990	2,663,880	2,700,450	2,732,920	2,740,170	2,668,450	2,588,450	2,591,020	2,605,910
Montana	394,820	408,730	414,650	427,130	435,480	444,090	432,240	424,300	425,110	432,380
Nebraska	879,550	887,200	895,470	901,120	914,670	928,120	916,770	901,690	904,630	914,830
Nevada	1,086,110	1,154,440	1,191,640	1,257,860	1,285,470	1,278,230	1,179,860	1,113,530	1,112,780	1,127,160
New Hampshire	607,570	618,310	621,560	627,570	632,590	634,570	619,390	603,420	606,690	612,710
New Jersey	3,878,020	3,901,020	3,917,310	3,957,500	3,980,080	3,986,310	3,850,770	3,770,550	3,771,250	3,793,720
New Mexico	747,050	754,990	763,430	789,360	798,640	819,480	800,390	777,560	777,640	773,860
New York	8,236,200	8,299,910	8,333,460	8,387,750	8,515,960	8,633,580	8,487,020	8,344,020	8,427,560	8,542,280
North Carolina	3,702,170	3,770,700	3,809,690	3,892,670	4,013,460	4,063,420	3,896,750	3,772,780	3,814,860	3,878,800
North Dakota	314,620	324,430	328,520	335,740	341,970	350,360	353,630	355,710	371,630	403,290
Ohio	5,308,270	5,324,700	5,340,280	5,354,170	5,341,360	5,323,130	5,091,490	4,921,690	4,977,910	5,054,250
Oklahoma	1,416,640	1,436,380	1,455,940	1,503,430	1,528,890	1,557,750	1,525,330	1,483,760	1,498,260	1,529,900
Oregon	1,537,000	1,576,890	1,598,780	1,648,680	1,682,150	1,706,740	1,624,490	1,569,700	1,586,620	1,609,900
Pennsylvania	5,494,430	5,535,000	5,569,310	5,631,520	5,663,070	5,705,170	5,572,660	5,483,220	5,549,240	5,596,480
Rhode Island	477,320	480,290	479,810	482,550	485,870	478,420	458,760	448,150	450,980	453,020
South Carolina	1,764,170	1,792,190	1,802,740	1,840,190	1,877,950	1,892,690	1,802,900	1,746,820	1,772,880	1,796,550
South Dakota	364,970	371,010	373,500	381,230	389,400	395,960	392,890	387,590	392,670	398,680
Tennessee	2,614,830	2,665,060	2,686,580	2,718,410	2,739,230	2,755,800	2,625,140	2,569,420	2,602,320	2,657,280
Texas	9,248,660	9,306,600	9,424,510	9,760,960	10,061,750	10,391,420	10,289,240	10,089,870	10,304,370	10,579,400
Utah	1,043,500	1,077,210	1,099,230	1,151,020	1,206,180	1,230,320	1,185,770	1,148,520	1,165,980	1,200,850
Vermont	291,400	296,260	297,650	299,610	301,140	301,130	294,120	286,990	290,830	294,090
Virginia	3,412,070	3,494,250	3,535,500	3,608,430	3,645,330	3,670,980	3,589,520	3,527,350	3,553,360	3,597,100
Washington	2,560,190	2,614,640	2,653,320	2,736,910	2,811,700	2,868,910	2,789,670	2,693,220	2,720,660	2,764,080
West Virginia	680,200	692,840	697,390	710,560	713,230	717,740	704,310	688,170	700,250	710,540

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	2,687,400	2,717,970	2,727,430	2,744,210	2,768,830	2,776,690	2,689,710	2,608,740	2,645,180	2,673,280
Wyoming	240,730	246,670	251,590	262,260	273,170	283,980	282,450	269,910	272,570	278,040
Puerto Rico	962,000	1,022,610	1,026,290	1,031,650	NA	999,010	962,030	950,570	930,940	942,080

NA not available

Science and Engineering Indicators 2018

State Indicators

All occupations

State	2013	2014	2015	2016
United States	132,588,810	135,128,260	137,896,660	140,400,040
Alabama	1,844,080	1,857,530	1,883,310	1,912,990
Alaska	322,660	324,970	327,250	323,500
Arizona	2,475,660	2,526,990	2,587,070	2,652,990
Arkansas	1,152,600	1,158,790	1,176,130	1,191,320
California	14,714,530	15,119,730	15,496,600	15,966,580
Colorado	2,295,000	2,367,780	2,451,490	2,507,680
Connecticut	1,635,590	1,646,510	1,659,430	1,666,280
Delaware	412,140	424,330	433,840	440,760
District of Columbia	665,850	674,650	676,060	702,380
Florida	7,453,230	7,665,280	7,925,300	8,222,030
Georgia	3,879,660	3,983,250	4,107,960	4,214,410
Hawaii	602,200	612,580	619,960	632,120
Idaho	613,000	628,140	642,700	663,490
Illinois	5,704,700	5,765,880	5,852,710	5,903,820
Indiana	2,854,250	2,905,170	2,947,380	2,991,260
Iowa	1,491,600	1,512,740	1,526,950	1,534,910
Kansas	1,336,460	1,359,500	1,371,630	1,374,180
Kentucky	1,782,820	1,808,010	1,838,220	1,869,650
Louisiana	1,885,310	1,915,800	1,939,300	1,922,170
Maine	582,430	586,390	591,520	596,390
Maryland	2,534,480	2,557,510	2,596,630	2,640,900
Massachusetts	3,257,870	3,322,500	3,396,840	3,459,910
Michigan	3,998,790	4,073,730	4,146,600	4,212,090

State Indicators

State	2013	2014	2015	2016
Minnesota	2,688,580	2,730,020	2,772,240	2,810,400
Mississippi	1,083,560	1,094,070	1,106,550	1,117,280
Missouri	2,639,120	2,673,640	2,712,240	2,757,850
Montana	439,110	443,330	447,180	454,740
Nebraska	927,150	942,950	953,710	968,000
Nevada	1,151,970	1,189,610	1,232,800	1,270,930
New Hampshire	620,190	627,000	635,360	645,050
New Jersey	3,821,070	3,869,260	3,906,800	3,955,350
New Mexico	783,980	788,000	798,150	805,440
New York	8,635,400	8,810,950	8,984,890	9,097,650
North Carolina	3,947,030	4,030,880	4,125,070	4,231,020
North Dakota	422,930	440,420	447,820	425,200
Ohio	5,125,850	5,200,880	5,280,850	5,337,890
Oklahoma	1,558,860	1,577,330	1,597,130	1,586,890
Oregon	1,640,300	1,683,470	1,735,220	1,790,940
Pennsylvania	5,616,820	5,653,840	5,709,480	5,747,020
Rhode Island	456,100	463,930	471,290	475,190
South Carolina	1,826,120	1,876,480	1,928,140	1,979,820
South Dakota	402,990	409,250	413,260	417,520
Tennessee	2,700,050	2,749,480	2,814,230	2,893,040
Texas	10,913,950	11,228,940	11,572,540	11,745,250
Utah	1,242,690	1,280,660	1,324,460	1,374,900
Vermont	298,290	301,050	303,550	304,670
Virginia	3,631,440	3,648,490	3,682,450	3,760,550
Washington	2,827,200	2,898,350	2,983,930	3,067,110
West Virginia	709,430	707,720	707,000	697,440

State Indicators

State	2013	2014	2015	2016
Wisconsin	2,704,840	2,727,860	2,771,600	2,805,010
Wyoming	278,910	282,690	283,830	276,120
Puerto Rico	927,460	902,930	890,760	883,360
Science and Engineering Indicators 2018				

State Indicators

S-40 Foreign-Born Workers as a Percentage of Individuals in Science and Engineering Occupations

Description

This indicator represents the percentage of foreign-born workers in a state's S&E workforce. A considerable proportion of workers employed in S&E fields in the United States are foreign born (see Chapter 3). Foreign born is a broad category, ranging from naturalized citizens and long-term U.S. residents with strong roots in the United States to recent immigrants who compete in global job markets and whose main social, educational, and economic ties are in their countries of origin. When interpreting data on foreign-born workers, the range of individuals in this category should be kept in mind.

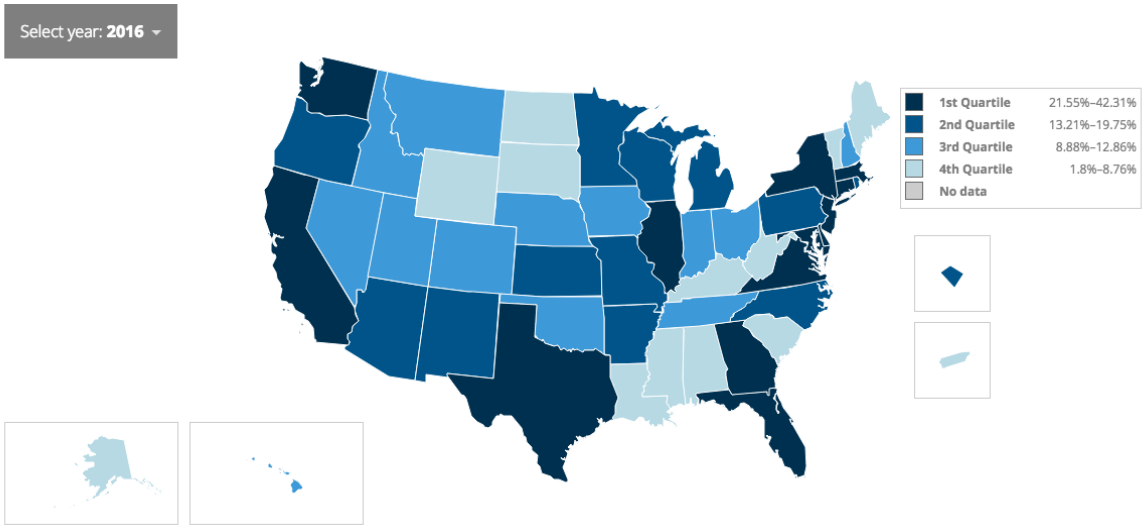
The data include all workers in S&E occupations as measured by the U.S. Census Bureau, regardless of educational attainment. Data are derived from the Census Bureau's American Community Survey (ACS). S&E occupations include, broadly, life scientists, computer and mathematical scientists, physical scientists, social scientists, and engineers. Postsecondary teachers of S&E are not included because these occupations are not separately identifiable in the ACS data files.

Data source: U.S. Census Bureau, American Community Survey.

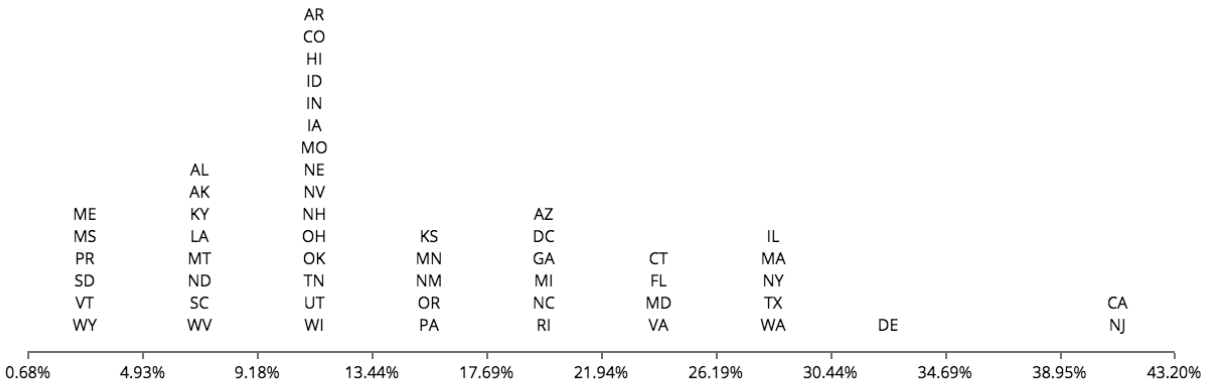
State Indicators

S-40 Foreign-Born Workers as a Percentage of Individuals in Science and Engineering Occupations

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

Foreign-Born Workers as a Percentage of Individuals in Science and Engineering Occupations

(Percent)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	22.25	22.79	22.02	22.75	23.24	21.73	21.52	22.20	22.52	22.66
Alabama	6.58	11.32	6.54	7.39	11.56	6.23	7.36	7.07	7.42	5.97
Alaska	8.53	10.71	3.96	1.77	8.57	2.33	0.92	7.77	4.82	13.93
Arizona	15.60	15.68	20.73	17.59	19.52	13.77	18.85	16.30	16.75	17.10
Arkansas	9.88	6.16	10.00	2.65	7.90	15.23	12.85	12.12	8.25	12.26
California	40.28	41.16	39.89	40.94	41.64	39.14	39.55	39.98	41.00	40.61
Colorado	12.06	11.65	11.64	13.53	13.06	9.96	11.53	11.23	13.19	10.46
Connecticut	22.06	25.66	22.12	21.52	20.41	22.55	22.78	24.37	22.44	24.77
Delaware	29.29	28.78	20.34	14.44	33.91	24.70	24.14	22.09	33.40	30.99
District of Columbia	31.77	18.07	17.27	22.50	20.13	21.24	21.86	16.38	18.14	14.54
Florida	23.32	21.56	20.08	22.92	23.00	21.54	22.60	22.34	23.25	21.01
Georgia	19.03	20.24	18.50	19.31	19.11	20.60	17.38	20.01	20.58	19.66
Hawaii	14.03	24.24	15.01	17.81	17.77	16.89	8.43	16.11	17.36	12.56
Idaho	12.18	6.83	7.77	11.18	11.27	6.14	9.01	8.05	14.41	7.11
Illinois	26.32	25.53	23.07	25.03	25.98	23.16	23.63	25.36	23.82	24.33
Indiana	9.59	13.26	12.21	8.51	9.49	12.34	8.86	9.08	10.78	12.34
Iowa	6.47	12.77	8.53	11.78	10.83	11.90	7.41	11.32	15.98	11.46
Kansas	8.52	16.80	15.29	13.30	14.97	11.72	11.76	15.65	11.60	13.42
Kentucky	12.64	9.94	11.94	11.00	14.12	7.82	9.26	9.60	10.96	13.66
Louisiana	7.72	11.24	8.79	6.69	7.88	8.53	8.31	8.52	10.82	8.47
Maine	2.70	3.15	7.00	7.61	12.10	7.14	2.70	3.06	4.31	11.42
Maryland	23.07	23.27	23.83	25.59	24.06	23.57	22.19	22.36	20.20	24.60
Massachusetts	31.05	29.60	26.89	30.92	30.32	27.65	26.99	28.89	30.30	27.79

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Michigan	19.79	18.76	19.99	19.42	18.33	16.71	15.87	18.41	18.57	16.76
Minnesota	16.50	15.19	11.28	14.44	15.81	18.20	14.64	19.86	15.16	17.19
Mississippi	7.07	7.13	5.96	5.43	7.77	6.06	3.94	2.19	6.12	5.99
Missouri	12.55	13.17	12.17	11.59	10.72	10.84	9.37	10.88	9.32	10.29
Montana	5.88	1.20	2.07	2.49	NA	2.25	2.87	NA	2.57	3.77
Nebraska	10.42	13.07	14.36	12.39	6.47	8.89	10.60	7.78	8.15	10.05
Nevada	13.62	14.86	16.55	11.55	12.58	19.06	14.73	12.01	18.65	12.28
New Hampshire	15.57	21.75	14.24	7.12	11.80	10.79	11.96	11.57	10.67	13.14
New Jersey	39.24	42.06	40.67	43.20	40.08	41.57	39.59	41.49	40.14	41.50
New Mexico	9.33	8.56	13.55	9.80	8.03	8.93	11.38	10.22	9.79	14.99
New York	26.43	28.03	26.58	29.96	26.31	26.68	26.71	26.55	26.92	27.67
North Carolina	12.70	14.57	15.52	15.33	13.98	15.71	16.38	17.46	16.33	17.45
North Dakota	4.24	4.61	NA	6.88	4.01	7.30	16.36	3.02	11.19	3.43
Ohio	13.43	15.42	12.08	13.11	14.20	13.34	13.06	12.85	12.31	16.21
Oklahoma	5.17	12.51	11.32	9.88	12.71	8.90	7.07	16.15	7.13	7.25
Oregon	19.93	17.71	21.03	19.67	17.65	16.92	13.93	16.09	15.28	16.17
Pennsylvania	13.99	16.91	16.94	16.16	16.29	15.68	15.99	15.37	15.16	16.59
Rhode Island	8.80	10.04	19.73	13.75	7.70	16.89	15.71	17.67	17.39	19.91
South Carolina	7.61	7.92	13.93	9.66	14.01	9.84	6.06	6.92	8.04	9.37
South Dakota	4.07	9.80	2.39	3.36	2.54	6.79	5.44	7.65	4.51	4.27
Tennessee	11.48	9.82	11.80	10.95	13.13	9.59	10.36	12.21	9.98	11.22
Texas	24.65	23.71	23.99	24.66	27.73	24.32	23.15	25.17	26.20	26.13
Utah	7.87	7.29	11.13	13.61	7.88	6.10	7.23	10.34	11.56	8.25
Vermont	11.33	2.93	0.68	11.47	9.22	4.07	9.06	5.68	10.24	6.22
Virginia	19.73	18.51	18.61	19.51	20.75	20.41	21.98	20.59	21.06	21.41
Washington	22.25	23.77	20.86	24.95	23.70	25.92	25.00	23.91	28.33	24.64

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West Virginia	1.65	7.95	2.35	6.88	10.35	5.60	4.34	6.61	5.88	2.68
Wisconsin	11.36	6.94	10.05	10.85	10.54	9.80	8.70	8.22	10.35	9.53
Wyoming	5.86	3.57	6.30	NA	7.73	7.24	3.41	NA	10.02	4.33
Puerto Rico	8.65	10.95	4.28	4.30	4.36	7.35	5.08	5.46	4.68	4.03

NA not available

Note(s):
The national total for the United States for foreign-born S&E workers includes Puerto Rico; The national total for the United States for S&E workers includes Puerto Rico.

Source(s):
U.S. Census Bureau, special tabulations of the American Community Survey (various years), data as of December 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Foreign-Born Workers as a Percentage of Individuals in Science and Engineering Occupations

(Percent)

State	2015	2016
United States	23.42	23.34
Alabama	7.85	7.06
Alaska	11.51	8.70
Arizona	18.16	18.22
Arkansas	15.19	13.44
California	40.77	40.39
Colorado	12.13	11.95
Connecticut	25.17	23.04
Delaware	27.88	30.83
District of Columbia	23.43	17.82
Florida	25.28	24.69
Georgia	22.25	21.55
Hawaii	14.37	12.06
Idaho	9.43	11.43
Illinois	26.41	26.54
Indiana	11.28	10.90
Iowa	13.13	11.33
Kansas	11.32	17.16
Kentucky	8.05	7.36
Louisiana	11.37	8.76
Maine	5.03	2.08
Maryland	23.76	23.96
Massachusetts	27.73	29.50

State Indicators

State	2015	2016
Michigan	20.38	19.37
Minnesota	15.50	15.65
Mississippi	4.60	1.80
Missouri	12.76	13.21
Montana	2.36	8.88
Nebraska	13.13	9.30
Nevada	20.62	12.53
New Hampshire	15.12	12.10
New Jersey	42.35	42.31
New Mexico	11.53	14.37
New York	28.12	26.44
North Carolina	16.94	18.59
North Dakota	4.29	5.02
Ohio	12.74	12.28
Oklahoma	9.87	10.51
Oregon	20.10	17.16
Pennsylvania	15.15	17.06
Rhode Island	18.76	19.75
South Carolina	13.13	7.46
South Dakota	3.07	3.99
Tennessee	10.63	12.86
Texas	26.27	26.59
Utah	7.67	10.46
Vermont	7.09	3.38
Virginia	22.28	22.87
Washington	27.48	28.11

State Indicators

State	2015	2016
West Virginia	9.72	7.79
Wisconsin	10.82	13.38
Wyoming	NA	4.43
Puerto Rico	4.97	4.40

NA not available

Note(s):
The national total for the United States for foreign-born S&E workers includes Puerto Rico; The national total for the United States for S&E workers includes Puerto Rico.

Source(s):
U.S. Census Bureau, special tabulations of the American Community Survey (various years), data as of December 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Foreign-born workers in S&E occupations

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	816,856	861,793	822,135	908,624	901,009	1,245,331	1,270,144	1,345,805	1,428,759	1,487,936
Alabama	3,079	5,519	2,958	3,508	5,099	4,472	4,550	5,386	5,548	4,367
Alaska	814	1,042	340	281	944	305	146	1,319	828	2,055
Arizona	11,095	11,432	14,351	12,588	15,120	17,103	21,060	20,035	22,276	21,385
Arkansas	1,538	923	1,694	392	1,229	3,950	3,491	3,443	2,637	4,703
California	218,558	235,975	219,855	239,903	246,545	311,336	324,986	342,650	362,842	376,724
Colorado	11,450	10,839	11,158	14,400	13,357	14,137	17,977	17,482	21,405	17,282
Connecticut	13,339	14,539	11,791	12,952	11,799	18,920	18,650	20,918	19,044	21,174
Delaware	3,439	3,599	2,088	1,721	3,914	4,517	4,999	4,358	6,709	6,489
District of Columbia	4,220	3,094	2,479	3,280	3,330	5,199	5,955	4,708	5,700	4,284
Florida	34,772	31,249	31,104	37,936	35,369	51,843	56,324	56,039	59,713	60,578
Georgia	17,860	20,132	17,359	21,532	20,058	32,067	29,604	32,544	36,347	38,209
Hawaii	1,535	3,007	1,879	2,901	2,294	3,911	2,050	3,662	3,863	3,310
Idaho	2,391	831	1,306	2,590	1,945	1,653	2,515	2,049	3,765	1,946
Illinois	35,917	37,123	33,475	37,740	37,886	54,102	52,834	61,790	59,658	65,617
Indiana	5,763	9,063	6,936	6,876	5,798	11,149	8,005	8,174	11,135	13,918
Iowa	1,767	3,932	2,385	3,421	3,521	5,640	3,420	5,941	8,886	6,551
Kansas	2,611	5,712	5,031	4,852	5,449	5,400	6,437	8,289	6,624	7,377
Kentucky	3,424	2,688	3,558	3,215	4,062	4,070	4,442	4,642	5,650	7,706
Louisiana	2,823	3,679	2,517	2,384	2,387	4,042	3,889	4,382	5,775	4,888
Maine	358	412	977	975	1,358	1,281	588	580	840	2,342
Maryland	31,078	33,173	31,092	36,020	34,144	50,379	47,215	52,146	45,758	55,567
Massachusetts	44,467	42,898	37,798	46,802	44,938	53,560	55,348	57,358	68,714	64,676
Michigan	29,966	29,669	29,183	27,442	23,189	30,173	28,887	35,986	35,080	35,590

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	13,300	11,884	8,664	12,701	11,899	22,887	18,588	26,632	21,540	23,527
Mississippi	1,101	1,244	940	1,108	1,263	1,368	837	545	1,448	1,476
Missouri	6,687	7,168	6,692	7,469	6,760	10,019	8,802	10,494	9,409	10,194
Montana	566	117	161	268	NA	339	415	NA	431	611
Nebraska	1,344	2,384	2,302	2,044	1,193	2,591	3,162	2,558	2,615	3,462
Nevada	2,547	3,195	2,835	2,344	2,113	5,245	4,213	3,398	6,660	4,049
New Hampshire	3,965	5,786	4,094	1,922	3,277	4,072	4,448	4,268	4,050	5,088
New Jersey	50,605	53,399	54,097	59,601	53,947	79,525	87,027	87,275	87,817	96,688
New Mexico	2,309	2,533	3,505	2,669	2,117	3,676	4,360	3,797	3,490	5,074
New York	50,112	52,694	49,799	58,761	50,167	77,978	80,368	81,585	88,881	90,980
North Carolina	12,445	13,407	15,469	15,390	14,510	23,391	26,177	29,241	30,580	32,253
North Dakota	246	226	NA	332	283	841	1,395	252	1,163	385
Ohio	16,657	18,197	16,263	17,342	16,395	24,706	26,016	24,230	25,522	35,594
Oklahoma	1,301	3,868	3,042	2,965	3,817	4,498	3,550	7,575	3,945	3,673
Oregon	9,772	8,747	9,979	11,090	9,438	12,120	10,683	12,660	13,387	14,335
Pennsylvania	19,742	26,312	24,964	23,773	25,371	35,600	37,768	36,201	38,036	41,523
Rhode Island	1,241	1,358	2,360	1,855	1,150	3,742	3,317	3,467	3,898	4,680
South Carolina	2,885	3,194	5,589	4,245	5,678	5,553	3,506	4,763	5,225	6,920
South Dakota	163	593	172	172	130	842	506	1,013	485	455
Tennessee	5,370	5,238	5,545	6,020	6,997	7,679	8,994	10,507	9,107	10,191
Texas	63,275	60,394	65,522	73,351	79,535	107,925	108,622	116,003	131,021	137,794
Utah	2,356	2,299	3,835	4,895	2,518	3,623	4,294	6,098	7,809	5,154
Vermont	1,007	231	40	812	821	503	1,023	804	1,215	717
Virginia	28,740	28,493	28,666	30,096	33,830	55,673	59,616	56,080	56,979	61,779
Washington	27,005	30,248	28,070	34,305	34,389	49,156	47,427	50,232	60,979	51,601
West Virginia	188	755	277	786	1,427	1,017	871	1,539	1,292	501

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	7,692	4,855	6,798	7,547	7,171	9,270	9,397	9,228	10,955	11,157
Wyoming	285	206	363	NA	412	751	206	NA	771	347
Puerto Rico	1,686	2,238	778	1,050	666	1,532	1,184	1,479	1,252	990

NA not available

Science and Engineering Indicators 2018

State Indicators

Foreign-born workers in S&E occupations

State	2015	2016
United States	1,609,852	1,689,242
Alabama	6,163	6,001
Alaska	1,497	1,460
Arizona	22,872	24,914
Arkansas	5,466	4,573
California	404,279	426,471
Colorado	20,981	22,764
Connecticut	22,362	22,441
Delaware	6,732	7,102
District of Columbia	8,512	6,081
Florida	74,854	78,180
Georgia	45,196	45,857
Hawaii	3,746	3,165
Idaho	2,494	3,919
Illinois	74,410	76,254
Indiana	11,913	11,832
Iowa	7,140	6,475
Kansas	6,956	10,730
Kentucky	4,685	4,365
Louisiana	6,993	4,949
Maine	966	536
Maryland	55,885	57,536
Massachusetts	65,661	76,752
Michigan	45,830	45,716

State Indicators

State	2015	2016
Minnesota	22,838	24,707
Mississippi	1,262	505
Missouri	14,095	14,762
Montana	356	1,295
Nebraska	4,244	3,578
Nevada	7,177	4,706
New Hampshire	6,779	5,123
New Jersey	97,466	100,461
New Mexico	4,334	5,443
New York	96,886	96,009
North Carolina	33,309	37,767
North Dakota	645	714
Ohio	28,582	28,732
Oklahoma	5,101	5,942
Oregon	19,010	17,315
Pennsylvania	38,731	46,650
Rhode Island	3,992	5,106
South Carolina	9,350	5,840
South Dakota	349	526
Tennessee	10,519	13,474
Texas	147,883	155,456
Utah	5,325	7,833
Vermont	1,209	480
Virginia	65,910	67,600
Washington	62,095	70,131
West Virginia	2,236	1,743

State Indicators

State	2015	2016
Wisconsin	13,415	17,782
Wyoming	NA	405
Puerto Rico	1,161	1,084

NA not available

Science and Engineering Indicators 2018

State Indicators

All workers in S&E occupations

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	3,671,866	3,780,968	3,734,227	3,994,629	3,876,901	5,730,658	5,902,313	6,063,339	6,345,063	6,566,782
Alabama	46,784	48,775	45,213	47,479	44,096	71,813	61,783	76,141	74,800	73,147
Alaska	9,543	9,733	8,590	15,893	11,015	13,063	15,912	16,986	17,170	14,754
Arizona	71,123	72,906	69,225	71,559	77,478	124,171	111,717	122,949	133,022	125,039
Arkansas	15,560	14,978	16,947	14,804	15,561	25,940	27,164	28,403	31,968	38,372
California	542,599	573,379	551,127	585,948	592,107	795,353	821,783	856,957	884,923	927,662
Colorado	94,955	93,059	95,825	106,435	102,305	141,953	155,931	155,727	162,315	165,179
Connecticut	60,478	56,659	53,303	60,179	57,812	83,915	81,854	85,841	84,878	85,466
Delaware	11,740	12,507	10,264	11,917	11,541	18,287	20,710	19,728	20,087	20,938
District of Columbia	13,285	17,126	14,356	14,575	16,541	24,480	27,239	28,738	31,423	29,467
Florida	149,134	144,951	154,915	165,502	153,790	240,644	249,235	250,797	256,778	288,310
Georgia	93,828	99,465	93,808	111,528	104,959	155,666	170,316	162,629	176,606	194,332
Hawaii	10,944	12,405	12,519	16,287	12,910	23,160	24,321	22,725	22,250	26,357
Idaho	19,625	12,171	16,807	23,168	17,251	26,931	27,907	25,463	26,124	27,358
Illinois	136,485	145,421	145,113	150,761	145,821	233,564	223,575	243,613	250,479	269,703
Indiana	60,108	68,372	56,801	80,833	61,114	90,316	90,363	90,029	103,304	112,833
Iowa	27,309	30,787	27,952	29,041	32,522	47,388	46,184	52,490	55,616	57,179
Kansas	30,632	34,009	32,904	36,482	36,401	46,056	54,744	52,964	57,127	54,951
Kentucky	27,091	27,041	29,806	29,231	28,768	52,017	47,953	48,362	51,531	56,394
Louisiana	36,572	32,727	28,619	35,645	30,302	47,368	46,819	51,451	53,385	57,725
Maine	13,237	13,062	13,961	12,809	11,221	17,951	21,743	18,949	19,483	20,508
Maryland	134,710	142,548	130,457	140,764	141,892	213,700	212,801	233,196	226,575	225,897
Massachusetts	143,213	144,910	140,573	151,353	148,210	193,701	205,096	198,510	226,789	232,715
Michigan	151,394	158,170	146,010	141,340	126,498	180,538	182,050	195,514	188,956	212,365

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	80,593	78,246	76,818	87,972	75,278	125,733	127,006	134,112	142,093	136,846
Mississippi	15,568	17,437	15,785	20,393	16,264	22,570	21,238	24,892	23,675	24,655
Missouri	53,301	54,437	54,984	64,426	63,075	92,395	93,894	96,410	100,985	99,027
Montana	9,632	9,773	7,769	10,756	9,893	15,098	14,439	17,054	16,760	16,195
Nebraska	12,894	18,237	16,035	16,499	18,438	29,151	29,829	32,864	32,095	34,439
Nevada	18,696	21,497	17,132	20,301	16,801	27,521	28,594	28,285	35,702	32,963
New Hampshire	25,472	26,598	28,759	27,010	27,775	37,749	37,202	36,883	37,947	38,713
New Jersey	128,966	126,962	133,027	137,972	134,591	191,322	219,829	210,329	218,752	233,001
New Mexico	24,739	29,588	25,870	27,230	26,363	41,159	38,329	37,151	35,658	33,854
New York	189,616	187,962	187,364	196,134	190,691	292,230	300,838	307,262	330,185	328,745
North Carolina	98,020	92,036	99,650	100,387	103,762	148,933	159,785	167,485	187,297	184,865
North Dakota	5,807	4,899	7,966	4,825	7,066	11,528	8,526	8,335	10,391	11,223
Ohio	124,073	118,035	134,601	132,264	115,458	185,160	199,159	188,515	207,276	219,574
Oklahoma	25,150	30,911	26,881	30,007	30,038	50,526	50,227	46,908	55,338	50,661
Oregon	49,022	49,402	47,447	56,368	53,458	71,632	76,665	78,680	87,633	88,664
Pennsylvania	141,089	155,623	147,331	147,096	155,719	227,037	236,228	235,471	250,851	250,295
Rhode Island	14,107	13,520	11,960	13,487	14,931	22,152	21,120	19,616	22,421	23,505
South Carolina	37,918	40,308	40,125	43,928	40,533	56,433	57,811	68,824	64,953	73,873
South Dakota	4,008	6,049	7,188	5,123	5,124	12,402	9,299	13,240	10,758	10,660
Tennessee	46,774	53,326	47,003	54,969	53,293	80,083	86,841	86,068	91,287	90,801
Texas	256,729	254,691	273,161	297,446	286,804	443,726	469,220	460,892	499,988	527,304
Utah	29,954	31,517	34,452	35,953	31,953	59,441	59,371	58,962	67,556	62,495
Vermont	8,884	7,889	5,871	7,078	8,901	12,373	11,294	14,163	11,860	11,529
Virginia	145,655	153,940	154,049	154,272	163,049	272,730	271,183	272,427	270,504	288,526
Washington	121,380	127,270	134,581	137,520	145,117	189,615	189,732	210,057	215,241	209,427
West Virginia	11,402	9,493	11,778	11,422	13,785	18,161	20,084	23,285	21,964	18,697

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	67,723	69,940	67,611	69,547	68,026	94,611	108,032	112,294	105,862	117,016
Wyoming	4,860	5,774	5,764	6,289	5,330	10,380	6,049	7,628	7,695	8,013
Puerto Rico	19,485	20,447	18,170	24,422	15,270	20,832	23,289	27,085	26,747	24,565

Science and Engineering Indicators 2018

State Indicators

All workers in S&E occupations

State	2015	2016
United States	6,873,675	7,238,187
Alabama	78,559	84,977
Alaska	13,006	16,785
Arizona	125,957	136,731
Arkansas	35,980	34,035
California	991,689	1,055,753
Colorado	172,986	190,536
Connecticut	88,836	97,419
Delaware	24,143	23,038
District of Columbia	36,329	34,127
Florida	296,127	316,627
Georgia	203,089	212,746
Hawaii	26,074	26,249
Idaho	26,435	34,294
Illinois	281,708	287,287
Indiana	105,651	108,541
Iowa	54,386	57,172
Kansas	61,464	62,519
Kentucky	58,220	59,302
Louisiana	61,531	56,487
Maine	19,215	25,792
Maryland	235,182	240,163
Massachusetts	236,827	260,197
Michigan	224,895	236,050

State Indicators

State	2015	2016
Minnesota	147,383	157,864
Mississippi	27,454	28,003
Missouri	110,479	111,782
Montana	15,076	14,587
Nebraska	32,319	38,488
Nevada	34,801	37,571
New Hampshire	44,848	42,342
New Jersey	230,125	237,465
New Mexico	37,585	37,876
New York	344,524	363,180
North Carolina	196,637	203,176
North Dakota	15,050	14,226
Ohio	224,399	233,918
Oklahoma	51,692	56,526
Oregon	94,579	100,886
Pennsylvania	255,583	273,394
Rhode Island	21,274	25,857
South Carolina	71,237	78,262
South Dakota	11,370	13,183
Tennessee	98,936	104,751
Texas	562,865	584,737
Utah	69,447	74,902
Vermont	17,048	14,219
Virginia	295,867	295,603
Washington	225,948	249,473
West Virginia	22,994	22,376

State Indicators

State	2015	2016
Wisconsin	123,978	132,939
Wyoming	8,517	9,133
Puerto Rico	23,371	24,641
Science and Engineering Indicators 2018		

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

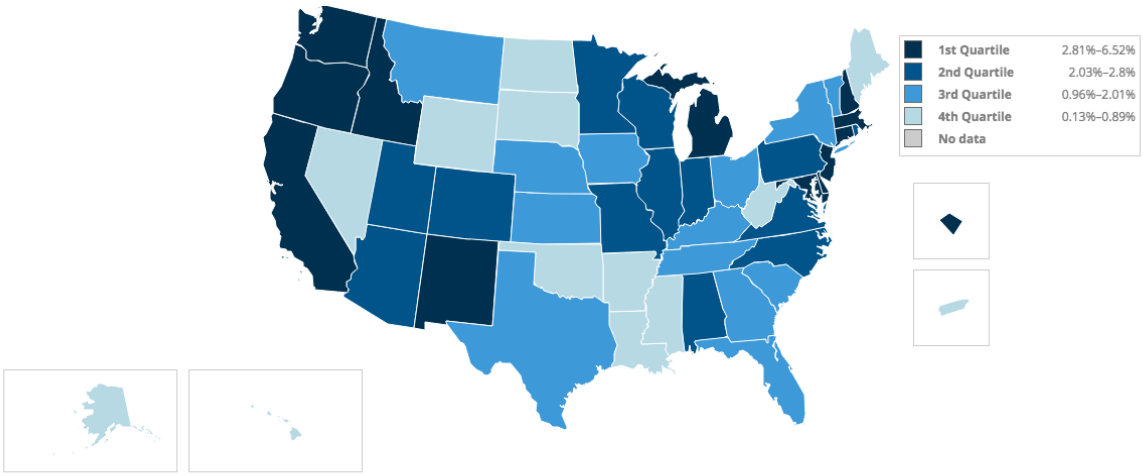
The National Patterns analysis integrates R&D spending and funding data from these separate surveys into U.S. R&D performance totals, which are then reported on a calendar year basis and for the main performing sectors and funding sources.

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.

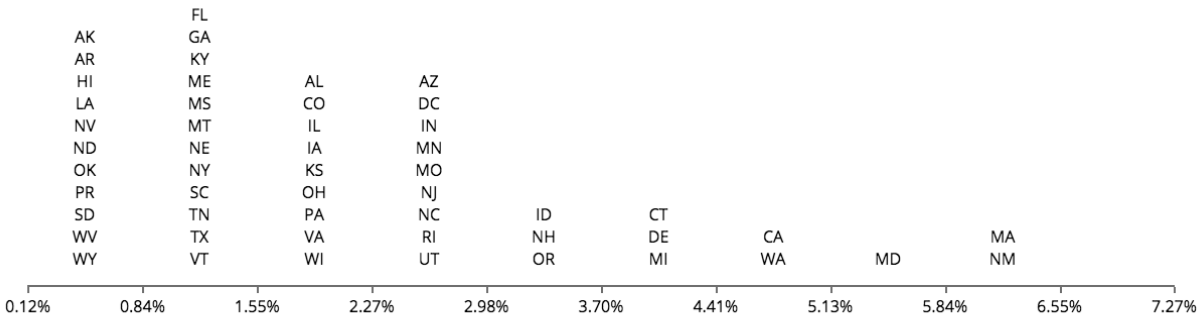
State Indicators

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.

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); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Science and Engineering Indicators 2018

State Indicators

R&D as a Percentage of Gross Domestic Product

(Percent)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	2.48	2.53	2.61	2.75	2.79	2.72	2.75	2.69	2.72	2.74
Alabama	1.79	2.01	1.94	2.82	2.34	2.15	2.74	2.11	2.06	2.37
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	4.89
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	4.17
Delaware	3.07	2.84	2.82	2.88	3.91	4.05	3.83	4.31	4.13	4.15
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	3.37
Illinois	2.13	2.19	2.21	1.86	1.96	2.42	2.35	2.35	2.35	2.14
Indiana	2.22	2.26	2.21	2.23	2.46	2.25	2.60	2.51	2.56	2.26
Iowa	1.35	1.34	1.37	1.55	1.90	1.95	2.11	1.65	1.77	1.77
Kansas	2.26	2.15	1.39	1.58	1.70	1.56	1.52	1.87	1.75	1.70
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	1.08
Maryland	5.36	5.22	4.93	5.64	6.11	5.87	5.92	5.52	5.63	5.77
Massachusetts	5.15	5.71	6.48	5.21	5.25	5.13	5.28	5.56	5.46	6.09

State Indicators

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	0.62
New Hampshire	3.10	3.54	3.50	4.06	1.95	3.37	3.79	3.50	3.54	3.41
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	6.14
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	2.03
Oklahoma	0.65	0.65	0.63	0.66	0.70	0.69	0.74	0.60	0.55	0.57
Oregon	2.66	2.51	2.53	2.65	2.69	2.75	2.76	3.06	3.30	3.58
Pennsylvania	2.35	2.46	2.41	2.26	2.35	2.19	2.22	2.07	2.23	2.18
Rhode Island	4.36	4.17	2.25	2.60	2.41	2.92	2.81	2.53	2.54	2.42
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	0.60
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	2.61
Vermont	2.09	2.03	2.15	2.14	2.16	1.70	1.88	2.10	1.86	1.44
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	4.47

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	0.29
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.

Source(s):
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Science and Engineering Indicators 2018

State Indicators

R&D as a Percentage of Gross Domestic Product

(Percent)

State	2015
United States	2.75
Alabama	2.10
Alaska	0.62
Arizona	2.41
Arkansas	0.53
California	5.02
Colorado	2.14
Connecticut	3.87
Delaware	4.19
District of Columbia	2.95
Florida	1.07
Georgia	1.37
Hawaii	0.76
Idaho	3.40
Illinois	2.14
Indiana	2.30
Iowa	1.94
Kansas	1.79
Kentucky	0.97
Louisiana	0.47
Maine	0.89
Maryland	5.57
Massachusetts	5.87

State Indicators

State	2015
Michigan	4.23
Minnesota	2.46
Mississippi	0.89
Missouri	2.54
Montana	1.00
Nebraska	0.96
Nevada	0.40
New Hampshire	3.14
New Jersey	2.81
New Mexico	6.52
New York	1.55
North Carolina	2.37
North Dakota	0.82
Ohio	2.01
Oklahoma	0.70
Oregon	3.33
Pennsylvania	2.09
Rhode Island	2.56
South Carolina	1.12
South Dakota	0.58
Tennessee	1.38
Texas	1.47
Utah	2.80
Vermont	1.23
Virginia	2.10
Washington	4.49

State Indicators

State	2015
West Virginia	0.74
Wisconsin	2.03
Wyoming	0.64
Puerto Rico	0.13

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.

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); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

R&D performed

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

State Indicators

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

State Indicators

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

NA not available

Science and Engineering Indicators 2018

State Indicators

R&D performed

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	325,288	350,908	377,890	404,773	402,931	406,580	426,160	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

Science and Engineering Indicators 2018

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
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
United States	14,958,151	15,506,355	16,142,806	16,679,187	17,379,962	18,028,287	18,561,329
Alabama	174,710	180,665	185,878	190,319	194,404	199,980	204,861
Alaska	54,134	58,759	60,890	59,808	58,267	53,384	50,713
Arizona	245,668	254,192	264,693	270,469	280,790	291,448	302,952
Arkansas	102,951	107,287	109,226	114,456	117,922	118,677	120,689
California	1,965,886	2,036,297	2,131,199	2,223,892	2,349,338	2,491,619	2,602,672
Colorado	253,374	262,719	272,799	286,835	305,309	313,329	323,692
Connecticut	234,528	234,233	239,462	240,975	244,784	256,306	263,379
Delaware	57,471	59,937	60,628	61,109	65,888	68,864	70,387
District of Columbia	103,831	107,738	109,685	111,890	116,309	121,119	126,815
Florida	735,098	741,455	764,136	794,644	832,340	883,861	926,817
Georgia	412,485	424,126	439,058	454,238	477,522	501,522	525,360
Hawaii	68,225	70,017	72,532	74,630	76,835	80,599	83,917
Idaho	55,258	56,744	58,105	60,854	63,272	65,460	67,275
Illinois	653,476	679,776	711,370	721,876	747,641	772,182	791,608
Indiana	282,259	291,570	299,996	311,150	324,425	333,363	341,909
Iowa	141,697	148,843	158,246	162,305	169,843	175,809	178,766
Kansas	128,542	136,884	140,964	143,471	147,585	151,845	153,258
Kentucky	165,974	171,835	177,046	181,135	185,748	191,897	197,043
Louisiana	232,596	236,248	241,378	234,608	242,102	238,075	235,109
Maine	51,456	51,490	52,580	53,348	55,325	57,332	59,275
Maryland	313,952	324,830	332,500	339,443	350,430	366,242	378,280
Massachusetts	402,652	417,283	434,098	442,090	459,118	488,100	507,913
Michigan	385,021	399,437	416,701	429,644	445,209	470,611	487,239

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	269,937	282,397	292,920	304,063	316,973	326,833	335,147
Mississippi	95,810	96,968	101,351	103,523	104,284	105,871	107,680
Missouri	255,865	257,225	266,245	275,911	282,034	292,718	300,891
Montana	38,375	41,187	42,349	43,229	45,058	45,845	45,994
Nebraska	92,231	99,935	101,973	106,765	112,087	113,458	115,345
Nevada	121,713	124,445	125,440	128,205	132,653	141,070	147,475
New Hampshire	64,159	65,214	66,948	68,558	71,100	74,269	77,855
New Jersey	489,130	493,343	514,662	531,072	542,549	564,360	581,122
New Mexico	86,079	89,261	90,146	90,834	94,707	93,230	93,297
New York	1,204,688	1,229,743	1,301,041	1,330,236	1,391,086	1,445,611	1,487,998
North Carolina	416,008	427,974	438,350	454,945	474,482	499,741	517,904
North Dakota	36,202	42,164	52,493	54,965	59,627	55,927	52,089
Ohio	498,989	528,567	550,299	564,683	591,485	607,326	625,715
Oklahoma	149,913	163,868	174,305	186,007	196,767	188,011	182,937
Oregon	191,120	199,929	196,973	196,594	203,326	216,522	226,821
Pennsylvania	596,662	615,411	637,896	659,792	684,781	708,402	724,936
Rhode Island	49,351	49,716	50,997	52,187	53,725	55,650	57,433
South Carolina	164,106	170,193	174,567	181,556	191,168	201,831	209,716
South Dakota	38,176	42,253	43,056	44,560	45,470	47,073	48,139
Tennessee	252,478	263,175	278,298	288,012	298,865	316,659	328,770
Texas	1,243,398	1,344,733	1,437,893	1,536,472	1,614,127	1,611,189	1,616,801
Utah	117,714	124,031	128,018	133,274	140,500	149,099	156,352
Vermont	26,633	27,676	28,195	28,690	29,360	30,300	31,092
Virginia	420,862	429,174	441,144	449,235	459,068	481,721	494,349
Washington	359,694	370,149	388,922	405,561	425,105	446,417	469,739
West Virginia	67,255	70,945	70,969	72,082	74,002	73,384	73,374

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	252,875	262,463	272,420	281,569	290,889	301,587	309,536
Wyoming	39,103	41,499	40,201	40,968	41,832	39,415	37,858
Puerto Rico	98,381	100,352	101,565	102,450	102,446	103,144	105,035

Science and Engineering Indicators 2018

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.

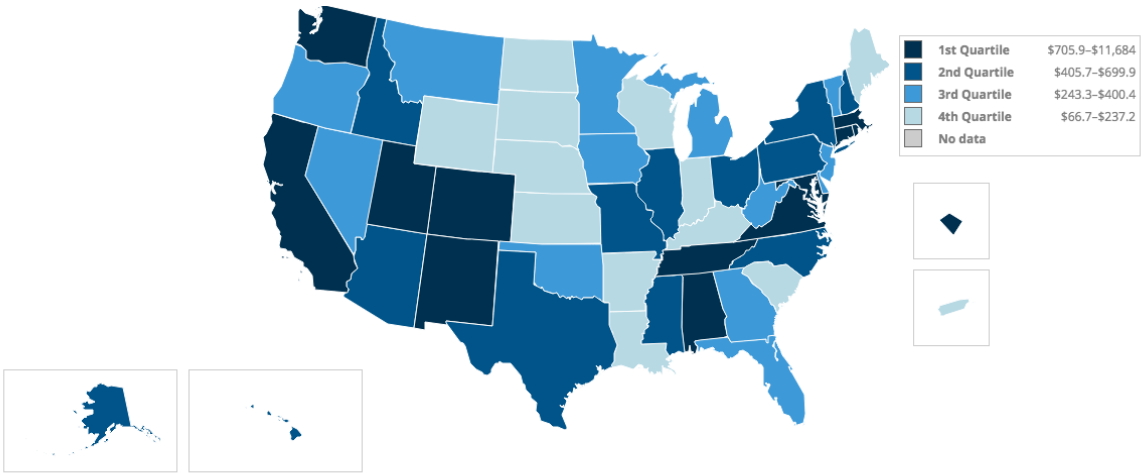
This indicator may be biased in areas where workers cross state lines for their place of employment, which receives the obligations.

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.

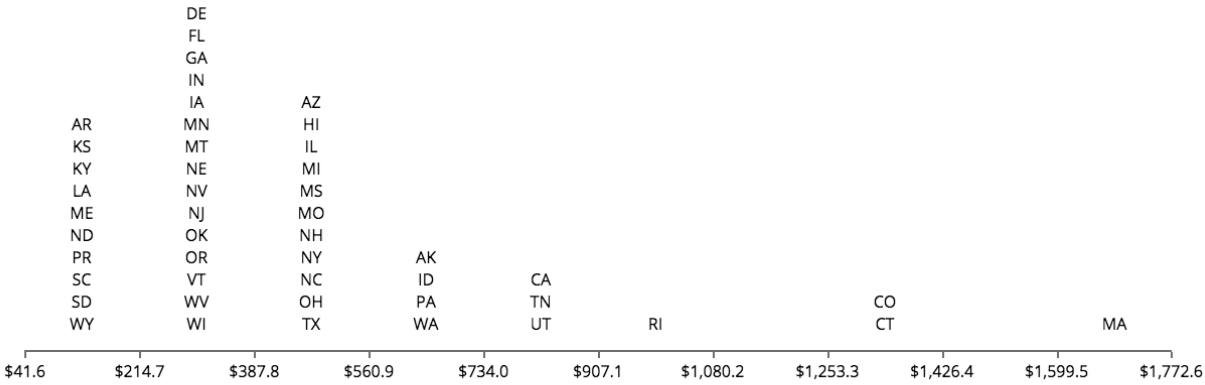
State Indicators

S-42 Federal R&D Obligations per Employed Worker

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

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):
Only 11 agencies are required to report federal R&D obligations: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security (established in 2002), 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 March 2017; U.S. Department of Labor, Bureau of Labor Statistics, Local Area Unemployment Statistics (various years), data as of February 2018.

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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

Note(s):
Only 11 agencies are required to report federal R&D obligations: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security (established in 2002), 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 March 2017; 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: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

Federal R&D Obligations per Employed Worker

(Dollars)

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

State Indicators

State	2010	2011	2012	2013	2014	2015
Michigan	598.4	512.9	519.6	423.9	420.2	400.4
Minnesota	390.5	344.5	345.6	334.2	332.5	283.1
Mississippi	360.1	486.5	452.9	487.8	510.8	413.4
Missouri	416.5	427.8	398.8	374.9	362.9	443.5
Montana	300.0	389.5	399.4	278.4	349.7	307.3
Nebraska	253.1	273.3	268.8	204.6	239.2	221.5
Nevada	323.3	400.3	394.0	468.4	397.1	299.1
New Hampshire	504.2	582.9	700.7	421.0	473.8	477.1
New Jersey	692.2	624.1	520.9	413.7	466.3	381.8
New Mexico	3,880.6	4,017.4	3,921.2	3,979.4	4,292.8	4,084.6
New York	638.8	577.7	537.6	516.6	509.9	499.9
North Carolina	522.7	495.6	452.8	407.4	427.1	420.9
North Dakota	328.5	313.7	228.3	227.0	199.6	203.6
Ohio	781.2	675.6	650.3	458.5	457.0	487.3
Oklahoma	260.7	277.2	263.2	153.7	184.6	257.3
Oregon	380.9	394.1	354.9	300.5	333.4	298.6
Pennsylvania	849.8	766.4	625.3	552.2	613.7	610.3
Rhode Island	1,331.1	1,224.6	1,113.9	962.5	1,082.2	996.4
South Carolina	345.8	255.2	279.7	196.4	229.1	209.3
South Dakota	178.8	145.4	149.2	132.8	159.6	167.1
Tennessee	753.9	667.4	739.0	749.0	716.4	800.0
Texas	613.3	474.7	475.5	434.3	378.5	446.2
Utah	1,367.3	1,394.7	748.6	684.9	889.4	810.4
Vermont	421.5	367.7	306.5	307.4	346.9	245.7
Virginia	2,360.3	2,106.3	2,048.9	1,623.8	1,902.4	1,858.3
Washington	1,238.9	1,570.4	864.6	1,066.3	1,088.4	705.9

State Indicators

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

NA not available

Note(s):
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Last updated: June 7, 2018

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
United States	138,156,480	132,793,573	135,995,441	122,985,240	127,927,192	125,846,297
Alabama	3,476,887	5,202,092	5,159,117	4,716,401	4,483,709	4,537,952
Alaska	235,562	196,455	159,056	185,468	136,904	208,044
Arizona	3,425,571	2,917,048	2,405,217	2,369,256	1,606,032	1,643,746
Arkansas	181,783	178,642	183,827	167,348	190,883	105,596
California	27,226,903	22,768,911	18,036,282	16,180,810	15,798,681	15,280,643
Colorado	4,348,333	3,815,539	3,744,745	3,394,037	3,611,357	3,506,388
Connecticut	2,193,459	2,425,968	2,231,082	2,516,608	2,286,990	2,292,751
Delaware	129,091	114,728	108,746	112,268	130,091	108,103
District of Columbia	3,890,121	3,013,539	3,339,296	3,908,128	3,980,138	4,221,723
Florida	3,142,237	2,481,827	2,355,839	2,282,029	2,447,584	2,932,696
Georgia	1,519,954	1,421,812	1,133,314	1,129,956	1,253,097	1,182,450
Hawaii	389,447	403,574	382,508	347,961	326,464	305,382
Idaho	478,995	430,212	446,936	380,814	597,925	532,627
Illinois	2,631,274	2,878,085	2,399,463	2,327,486	2,368,558	2,482,733
Indiana	988,688	903,000	838,297	692,598	771,216	678,315
Iowa	909,096	695,339	613,269	560,471	512,177	566,975
Kansas	347,529	367,780	231,602	234,254	187,149	193,687
Kentucky	287,437	241,959	308,087	306,846	296,742	296,707
Louisiana	330,803	597,294	313,774	277,976	284,516	253,683
Maine	163,103	179,969	247,753	169,887	131,091	138,030
Maryland	15,879,006	15,750,593	15,597,818	15,605,883	16,890,454	16,750,635
Massachusetts	8,747,479	7,758,388	6,279,278	5,690,763	6,268,540	6,055,001
Michigan	2,509,681	2,153,449	2,206,422	1,826,143	1,852,691	1,798,999

State Indicators

State	2010	2011	2012	2013	2014	2015
Minnesota	1,062,556	949,293	961,092	939,742	947,366	817,426
Mississippi	421,613	588,083	542,610	567,723	589,505	489,008
Missouri	1,151,046	1,193,266	1,122,803	1,056,305	1,038,637	1,296,254
Montana	139,222	181,657	190,191	134,505	170,536	152,192
Nebraska	239,814	262,148	261,912	200,523	234,061	216,437
Nevada	379,814	478,099	481,734	584,582	509,952	394,231
New Hampshire	350,471	406,012	490,721	296,213	335,944	342,053
New Jersey	2,852,962	2,582,709	2,166,953	1,726,856	1,968,461	1,631,866
New Mexico	3,337,955	3,456,208	3,378,591	3,421,466	3,714,234	3,542,923
New York	5,602,222	5,042,120	4,727,247	4,605,210	4,580,635	4,566,943
North Carolina	2,151,161	2,060,306	1,922,260	1,759,196	1,880,503	1,892,033
North Dakota	119,582	117,703	88,065	89,515	80,498	82,000
Ohio	4,098,787	3,554,656	3,436,331	2,425,734	2,454,493	2,638,536
Oklahoma	429,597	462,536	449,813	262,352	316,784	450,232
Oregon	675,292	711,081	632,076	528,961	601,516	557,536
Pennsylvania	4,963,404	4,512,982	3,724,886	3,295,421	3,695,262	3,710,488
Rhode Island	669,846	610,133	557,413	486,437	555,287	519,380
South Carolina	662,206	496,684	555,367	397,477	476,363	446,599
South Dakota	74,962	61,087	63,168	56,607	68,795	72,781
Tennessee	2,104,843	1,898,595	2,111,931	2,118,645	2,023,052	2,312,540
Texas	6,896,125	5,475,367	5,619,673	5,234,156	4,678,423	5,574,480
Utah	1,708,887	1,756,403	972,325	918,647	1,221,844	1,143,613
Vermont	142,251	124,444	103,372	102,954	115,659	81,625
Virginia	9,111,678	8,287,063	8,129,999	6,487,535	7,651,664	7,487,099
Washington	3,915,467	4,931,381	2,757,414	3,433,474	3,565,308	2,361,715
West Virginia	312,779	239,807	263,276	171,449	208,017	239,451

State Indicators

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

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

State Indicators

S-43 Federal R&D Obligations per Individual in Science and Engineering Occupation

Description

This indicator represents the relationship between federal R&D spending in a state and the number of employees in the state who work in S&E occupations. Federal R&D dollars are attributed to the states in which the recipient organizations of federal obligations are located. Data on 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 funding, approximately 50% of the total. The geographic distribution of DOD R&D funding to industry, mostly for development, reflects the location of prime contractors only, not the numerous subcontractors who perform much of the R&D.

S&E occupations are defined by standard occupational codes. Occupations include engineers; computer, mathematical, life, physical, and social scientists; and postsecondary teachers in these fields. Managers, technicians, elementary and secondary schoolteachers, and medical personnel are not included. Data on individuals in S&E occupations come from the Bureau of Labor Statistics (BLS) Occupational Employment Statistics Survey, a survey of workplaces that assigns workers to a state based on where they work. Estimates are developed by BLS from data provided by state workforce agencies and do not include self-employed persons.

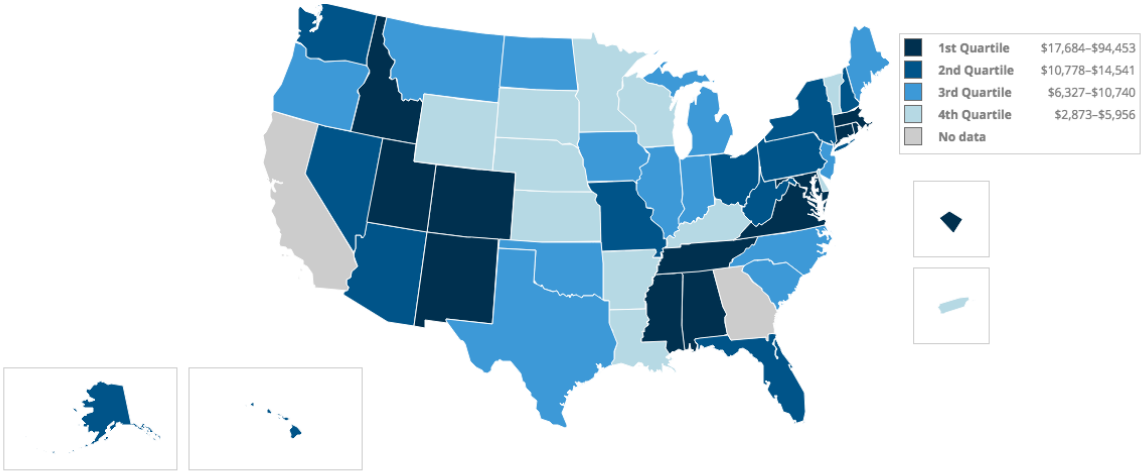
The distribution of values for this indicator is often strongly skewed, with high values reported in the District of Columbia and adjoining states and in states where federal facilities or major defense contractors are located. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations. Whereas this indicator shows the distribution of federal R&D obligations compared with the distribution of S&E occupations, many persons in S&E occupations do not receive federal money for R&D.

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, Occupational Employment Statistics Survey.

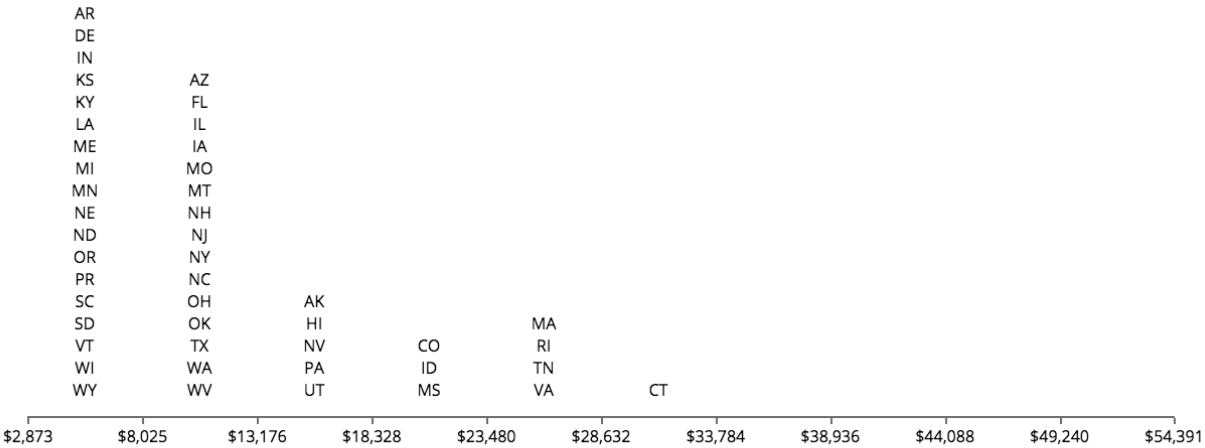
State Indicators

S-43 Federal R&D Obligations per Individual in Science and Engineering Occupation

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

Federal R&D Obligations per Individual in Science and Engineering Occupation

(Dollars)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	20,430	21,207	22,277	22,061	22,336	21,637	24,021	24,893	22,915	22,787
Alabama	56,967	50,693	49,501	33,256	32,270	40,569	44,027	50,795	74,009	70,789
Alaska	37,679	42,439	44,091	19,790	22,018	16,754	16,733	15,266	12,529	9,782
Arizona	25,895	26,867	30,690	25,070	23,660	23,988	30,554	33,300	25,293	20,570
Arkansas	6,812	6,069	6,690	6,509	6,244	4,956	5,447	6,225	6,087	6,225
California	29,829	27,386	27,862	NA	35,812	25,183	33,938	35,880	28,446	21,948
Colorado	13,977	16,477	17,960	16,367	20,128	18,150	26,081	30,363	26,360	25,129
Connecticut	25,411	25,317	28,590	24,523	26,368	22,611	29,870	29,250	31,691	28,440
Delaware	5,492	4,872	5,228	5,228	5,900	6,463	10,143	6,171	5,115	4,639
District of Columbia	54,391	54,172	65,633	65,397	67,739	276,787	69,476	64,976	48,094	52,505
Florida	12,910	13,884	10,747	13,593	16,704	9,228	15,115	13,115	10,131	9,488
Georgia	14,795	13,693	15,859	12,829	12,319	9,404	NA	10,467	9,619	7,615
Hawaii	25,727	27,692	34,379	20,079	20,236	18,468	20,373	19,972	20,078	18,276
Idaho	9,834	12,518	12,155	NA	11,816	15,247	16,496	19,851	16,578	17,693
Illinois	9,159	8,583	9,601	9,006	9,526	9,665	12,414	13,349	14,079	10,898
Indiana	7,317	6,878	7,093	7,280	7,182	7,398	12,223	10,899	9,643	8,860
Iowa	13,384	13,437	12,101	12,564	14,581	13,747	14,512	20,596	14,211	12,037
Kansas	5,170	5,460	6,930	6,057	6,351	5,536	8,260	7,097	7,137	4,547
Kentucky	5,454	5,756	6,654	5,372	4,531	NA	6,233	5,891	4,654	5,944
Louisiana	10,821	10,506	10,814	8,030	10,908	9,718	9,295	7,484	13,969	6,833
Maine	11,101	14,036	18,847	14,370	23,735	9,883	10,845	9,336	10,290	13,833
Maryland	53,784	79,625	78,072	79,931	73,249	79,683	94,199	95,255	91,033	86,872
Massachusetts	29,734	31,230	34,123	34,609	36,617	31,674	41,559	42,023	35,158	27,401

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	9,255	5,927	6,125	8,154	8,140	9,136	12,928	14,214	11,431	11,109
Minnesota	7,396	7,010	6,353	9,859	10,681	10,362	11,566	8,494	7,283	7,298
Mississippi	53,222	69,600	18,665	22,276	17,002	15,959	14,828	17,737	25,089	22,953
Missouri	16,036	33,313	45,541	13,644	11,947	10,545	12,315	11,252	11,159	10,240
Montana	11,460	16,218	15,247	11,632	49,368	NA	12,069	9,523	12,143	12,382
Nebraska	5,469	6,627	6,123	5,481	7,323	6,429	6,927	7,753	7,756	7,544
Nevada	18,761	22,708	24,314	16,198	11,926	11,451	20,254	14,151	16,852	17,842
New Hampshire	21,850	16,477	19,144	14,466	11,948	10,096	15,004	12,002	13,876	16,951
New Jersey	12,933	13,220	14,488	12,313	11,777	11,071	12,735	15,391	14,174	11,940
New Mexico	91,967	105,099	110,463	107,631	104,008	101,357	100,015	92,387	97,303	95,684
New York	16,086	15,911	18,408	17,497	16,643	14,245	19,786	NA	16,238	14,705
North Carolina	12,212	12,340	13,449	12,763	12,789	11,534	12,722	13,876	12,727	11,449
North Dakota	12,723	12,834	13,001	12,591	11,985	10,405	10,187	10,822	9,752	6,712
Ohio	16,754	15,422	16,371	14,709	18,641	12,507	21,447	20,929	17,078	NA
Oklahoma	12,855	10,762	8,642	5,340	4,924	5,332	8,090	9,722	9,822	8,921
Oregon	8,398	7,788	10,480	7,906	7,459	8,293	9,123	NA	NA	8,341
Pennsylvania	21,499	19,084	18,003	15,354	15,350	14,436	NA	NA	NA	NA
Rhode Island	30,181	33,216	49,158	34,469	34,118	35,584	37,497	36,785	31,369	27,622
South Carolina	9,315	7,559	9,765	7,023	7,792	7,841	11,532	11,777	8,140	8,792
South Dakota	5,988	7,349	7,398	7,503	5,361	6,435	6,855	6,723	5,181	5,264
Tennessee	17,754	21,025	21,479	22,212	26,941	23,226	30,179	29,295	24,457	26,455
Texas	14,823	14,318	13,315	14,472	15,162	10,843	12,832	15,278	11,673	11,376
Utah	17,630	26,159	23,458	17,022	19,308	13,314	22,792	33,620	34,205	17,769
Vermont	17,614	33,341	20,564	8,259	8,493	9,788	11,844	11,227	9,500	8,032
Virginia	32,058	31,244	36,960	35,732	35,681	35,800	35,523	35,620	30,966	29,641
Washington	16,256	14,742	16,409	23,793	25,835	NA	21,116	21,027	25,063	NA

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	23,637	19,743	50,345	17,575	13,231	13,210	16,062	18,323	13,104	13,230
Wisconsin	7,056	6,889	6,965	6,563	6,756	6,500	8,783	8,017	7,254	7,127
Wyoming	7,011	6,839	5,107	4,734	4,511	5,351	7,304	4,446	4,407	8,678
Puerto Rico	5,628	4,898	4,842	4,142	3,633	3,697	4,222	4,547	4,638	3,280

NA not available

Note(s):
Only 11 agencies are required to report federal R&D obligations: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security (established in 2002), 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; Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
National Science Foundation, National Center for Science and Engineering Statistics, Federal Funds for Research and Development (various years), data as of March 2017; U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

Recommended Citation: National Science Board. 2018. “Federal R&D Obligations per Individual in Science and Engineering Occupation.” Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/federal-rd-obligations-per-se-occupation-holder

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Federal R&D Obligations per Individual in Science and Engineering Occupation

(Dollars)

State	2013	2014	2015
United States	20,033	20,246	19,252
Alabama	61,532	60,200	62,002
Alaska	12,194	9,176	13,897
Arizona	19,198	12,571	12,299
Arkansas	5,458	5,956	3,166
California	19,047	17,936	NA
Colorado	22,036	22,473	20,946
Connecticut	31,916	28,949	28,843
Delaware	5,096	5,698	4,752
District of Columbia	59,849	57,834	60,414
Florida	9,116	9,507	10,788
Georgia	7,026	7,374	NA
Hawaii	16,460	15,620	14,501
Idaho	14,732	22,597	18,807
Illinois	10,260	10,063	10,120
Indiana	6,866	7,416	6,504
Iowa	10,688	9,584	10,740
Kansas	4,572	3,734	3,610
Kentucky	5,691	5,460	5,280
Louisiana	5,946	5,792	5,237
Maine	9,017	6,754	6,915
Maryland	83,552	88,860	86,428
Massachusetts	24,984	27,198	26,140

State Indicators

State	2013	2014	2015
Michigan	8,788	8,436	7,886
Minnesota	7,035	6,758	5,692
Mississippi	23,344	23,713	19,222
Missouri	9,991	9,709	11,761
Montana	8,639	10,974	9,325
Nebraska	5,497	6,462	5,703
Nevada	21,772	18,964	13,980
New Hampshire	10,408	11,862	11,678
New Jersey	9,349	10,457	8,436
New Mexico	98,036	102,660	94,453
New York	13,800	13,135	12,379
North Carolina	10,113	10,388	10,106
North Dakota	7,150	6,206	6,327
Ohio	11,126	11,165	11,297
Oklahoma	5,055	5,987	8,161
Oregon	6,692	7,475	6,457
Pennsylvania	13,514	14,855	14,541
Rhode Island	23,454	26,180	24,101
South Carolina	6,102	7,078	6,531
South Dakota	4,433	5,204	5,247
Tennessee	NA	23,339	26,036
Texas	10,175	8,647	9,894
Utah	15,844	19,453	17,684
Vermont	7,969	8,709	5,954
Virginia	23,486	28,089	27,629
Washington	16,372	17,089	10,778

State Indicators

State	2013	2014	2015
West Virginia	8,797	10,344	11,686
Wisconsin	6,158	6,229	5,952
Wyoming	NA	5,065	5,956
Puerto Rico	3,623	3,046	2,873

NA not available

Note(s):
Only 11 agencies are required to report federal R&D obligations: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security (established in 2002), 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; Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
National Science Foundation, National Center for Science and Engineering Statistics, Federal Funds for Research and Development (various years), data as of March 2017; U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

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
United States	138,156,480	132,793,573	135,995,441	122,985,240	127,927,192	125,846,297
Alabama	3,476,887	5,202,092	5,159,117	4,716,401	4,483,709	4,537,952
Alaska	235,562	196,455	159,056	185,468	136,904	208,044
Arizona	3,425,571	2,917,048	2,405,217	2,369,256	1,606,032	1,643,746
Arkansas	181,783	178,642	183,827	167,348	190,883	105,596
California	27,226,903	22,768,911	18,036,282	16,180,810	15,798,681	15,280,643
Colorado	4,348,333	3,815,539	3,744,745	3,394,037	3,611,357	3,506,388
Connecticut	2,193,459	2,425,968	2,231,082	2,516,608	2,286,990	2,292,751
Delaware	129,091	114,728	108,746	112,268	130,091	108,103
District of Columbia	3,890,121	3,013,539	3,339,296	3,908,128	3,980,138	4,221,723
Florida	3,142,237	2,481,827	2,355,839	2,282,029	2,447,584	2,932,696
Georgia	1,519,954	1,421,812	1,133,314	1,129,956	1,253,097	1,182,450
Hawaii	389,447	403,574	382,508	347,961	326,464	305,382
Idaho	478,995	430,212	446,936	380,814	597,925	532,627
Illinois	2,631,274	2,878,085	2,399,463	2,327,486	2,368,558	2,482,733
Indiana	988,688	903,000	838,297	692,598	771,216	678,315
Iowa	909,096	695,339	613,269	560,471	512,177	566,975
Kansas	347,529	367,780	231,602	234,254	187,149	193,687
Kentucky	287,437	241,959	308,087	306,846	296,742	296,707
Louisiana	330,803	597,294	313,774	277,976	284,516	253,683
Maine	163,103	179,969	247,753	169,887	131,091	138,030
Maryland	15,879,006	15,750,593	15,597,818	15,605,883	16,890,454	16,750,635
Massachusetts	8,747,479	7,758,388	6,279,278	5,690,763	6,268,540	6,055,001
Michigan	2,509,681	2,153,449	2,206,422	1,826,143	1,852,691	1,798,999

State Indicators

State	2010	2011	2012	2013	2014	2015
Minnesota	1,062,556	949,293	961,092	939,742	947,366	817,426
Mississippi	421,613	588,083	542,610	567,723	589,505	489,008
Missouri	1,151,046	1,193,266	1,122,803	1,056,305	1,038,637	1,296,254
Montana	139,222	181,657	190,191	134,505	170,536	152,192
Nebraska	239,814	262,148	261,912	200,523	234,061	216,437
Nevada	379,814	478,099	481,734	584,582	509,952	394,231
New Hampshire	350,471	406,012	490,721	296,213	335,944	342,053
New Jersey	2,852,962	2,582,709	2,166,953	1,726,856	1,968,461	1,631,866
New Mexico	3,337,955	3,456,208	3,378,591	3,421,466	3,714,234	3,542,923
New York	5,602,222	5,042,120	4,727,247	4,605,210	4,580,635	4,566,943
North Carolina	2,151,161	2,060,306	1,922,260	1,759,196	1,880,503	1,892,033
North Dakota	119,582	117,703	88,065	89,515	80,498	82,000
Ohio	4,098,787	3,554,656	3,436,331	2,425,734	2,454,493	2,638,536
Oklahoma	429,597	462,536	449,813	262,352	316,784	450,232
Oregon	675,292	711,081	632,076	528,961	601,516	557,536
Pennsylvania	4,963,404	4,512,982	3,724,886	3,295,421	3,695,262	3,710,488
Rhode Island	669,846	610,133	557,413	486,437	555,287	519,380
South Carolina	662,206	496,684	555,367	397,477	476,363	446,599
South Dakota	74,962	61,087	63,168	56,607	68,795	72,781
Tennessee	2,104,843	1,898,595	2,111,931	2,118,645	2,023,052	2,312,540
Texas	6,896,125	5,475,367	5,619,673	5,234,156	4,678,423	5,574,480
Utah	1,708,887	1,756,403	972,325	918,647	1,221,844	1,143,613
Vermont	142,251	124,444	103,372	102,954	115,659	81,625
Virginia	9,111,678	8,287,063	8,129,999	6,487,535	7,651,664	7,487,099
Washington	3,915,467	4,931,381	2,757,414	3,433,474	3,565,308	2,361,715
West Virginia	312,779	239,807	263,276	171,449	208,017	239,451

State Indicators

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

Science and Engineering Indicators 2018

State Indicators

Individuals in S&E occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	4,961,540	5,174,260	5,233,520	5,407,710	5,591,990	5,781,460	5,785,710	5,549,980	5,794,980	5,968,240
Alabama	56,380	59,880	62,790	66,100	69,650	68,580	68,670	68,450	70,290	72,880
Alaska	10,600	10,870	11,230	10,720	11,990	13,260	14,780	15,430	15,680	16,260
Arizona	92,120	98,400	96,410	98,110	102,380	102,100	102,820	102,870	115,330	116,930
Arkansas	21,340	24,170	24,660	24,860	28,460	29,310	31,420	29,200	29,350	29,530
California	676,180	703,250	716,530	NA	753,570	791,750	795,240	758,830	800,430	821,780
Colorado	124,140	125,510	126,110	133,730	138,990	147,000	148,090	143,210	144,750	149,020
Connecticut	81,380	83,840	83,930	79,380	80,280	80,290	79,160	74,990	76,550	78,450
Delaware	17,370	18,420	18,010	21,550	22,140	22,330	22,200	20,920	22,430	23,440
District of Columbia	54,890	61,460	63,410	64,120	63,150	63,360	61,430	59,870	62,660	63,600
Florida	221,070	235,170	241,000	246,190	244,140	248,200	247,070	239,600	244,970	248,300
Georgia	144,170	139,230	137,580	136,470	136,880	147,380	NA	145,220	147,820	148,830
Hawaii	16,090	17,630	17,460	18,940	18,740	18,830	19,020	19,500	20,100	20,930
Idaho	22,150	23,050	23,880	NA	24,330	23,310	23,520	24,130	25,950	25,260
Illinois	211,230	219,040	221,630	222,470	225,180	224,370	221,170	197,120	204,420	220,170
Indiana	78,410	80,950	79,910	80,110	83,080	90,840	90,750	90,710	93,640	94,620
Iowa	37,320	40,060	40,300	43,670	45,430	46,180	47,080	44,140	48,930	50,950
Kansas	51,970	52,650	51,630	48,620	50,040	54,260	56,200	48,970	51,530	50,930
Kentucky	45,230	43,740	44,530	44,680	49,030	NA	51,200	48,790	51,990	51,830
Louisiana	41,900	42,520	41,030	40,180	38,450	41,790	43,630	44,200	42,760	45,920
Maine	15,020	14,980	15,500	15,950	15,960	17,000	17,910	17,470	17,490	17,910
Maryland	149,250	158,350	160,120	159,470	162,540	167,070	169,540	166,700	173,020	179,550
Massachusetts	184,690	190,960	193,180	198,670	205,610	217,310	217,690	208,160	220,670	229,160
Michigan	182,940	188,580	192,150	208,520	212,040	204,290	187,760	176,570	188,380	198,610

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	117,120	118,590	120,930	125,930	129,840	134,440	134,060	125,100	130,340	131,690
Mississippi	22,190	22,970	23,480	24,910	25,520	27,270	25,940	23,770	23,440	23,640
Missouri	84,150	91,820	92,260	96,420	102,170	105,390	104,310	102,300	106,930	109,650
Montana	11,450	11,640	11,940	13,010	13,240	NA	14,210	14,620	14,960	15,360
Nebraska	30,710	31,760	31,530	32,500	31,420	31,820	31,790	30,930	33,800	34,720
Nevada	22,330	24,440	24,400	26,930	26,920	27,300	27,560	26,840	28,370	27,000
New Hampshire	23,430	25,620	26,840	27,680	28,450	29,150	30,550	29,200	29,260	28,950
New Jersey	161,420	171,990	174,270	176,460	186,120	198,060	195,690	185,360	182,210	181,480
New Mexico	33,600	32,000	32,530	30,800	33,440	34,560	36,950	36,130	35,520	35,310
New York	272,440	283,150	289,010	306,810	322,520	326,510	315,480	NA	310,510	321,480
North Carolina	132,440	136,430	134,290	138,790	142,970	153,680	158,920	155,030	161,880	167,900
North Dakota	8,430	8,460	9,070	9,360	9,660	9,450	9,930	11,050	12,070	13,120
Ohio	177,100	181,180	180,900	185,190	196,390	206,320	207,930	195,840	208,140	NA
Oklahoma	44,360	46,320	46,370	50,770	51,430	48,900	45,730	44,190	47,090	50,420
Oregon	61,230	64,820	62,030	64,520	67,890	70,070	69,630	NA	NA	75,780
Pennsylvania	185,560	195,510	204,270	214,910	218,890	227,170	NA	NA	NA	NA
Rhode Island	18,740	19,330	18,080	18,060	18,400	18,090	18,120	18,210	19,450	20,180
South Carolina	48,740	50,840	50,460	53,230	54,120	57,770	57,370	56,230	61,020	63,170
South Dakota	9,150	9,530	9,460	10,120	11,550	11,870	11,570	11,150	11,790	12,000
Tennessee	63,680	65,730	66,390	67,040	70,820	72,760	68,970	71,850	77,630	79,830
Texas	365,270	384,600	389,550	408,710	441,410	463,850	470,010	451,390	469,080	493,980
Utah	45,570	45,250	45,110	49,690	51,340	52,570	51,270	50,830	51,350	54,720
Vermont	11,420	12,510	12,770	12,780	12,760	12,360	12,780	12,670	13,100	12,870
Virginia	209,280	233,590	236,650	251,720	254,710	259,280	264,090	255,800	267,620	274,280
Washington	150,230	156,780	160,960	171,780	183,900	NA	196,850	186,210	196,760	NA
West Virginia	16,220	15,990	16,040	17,150	16,560	17,000	16,350	17,070	18,300	19,900

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	93,320	93,760	93,590	96,860	99,380	101,680	100,850	99,240	102,320	103,030
Wyoming	6,130	6,960	7,350	7,640	8,110	8,850	8,920	8,260	8,440	8,710
Puerto Rico	19,940	20,600	20,950	23,850	23,630	22,970	22,760	20,850	20,990	21,750

NA not available

Science and Engineering Indicators 2018

State Indicators

Individuals in S&E occupations

State	2013	2014	2015	2016
United States	6,139,220	6,318,580	6,536,860	6,746,600
Alabama	76,650	74,480	73,190	72,480
Alaska	15,210	14,920	14,970	14,340
Arizona	123,410	127,760	133,650	138,560
Arkansas	30,660	32,050	33,350	33,180
California	849,510	880,850	NA	932,020
Colorado	154,020	160,700	167,400	175,370
Connecticut	78,850	79,000	79,490	80,330
Delaware	22,030	22,830	22,750	24,120
District of Columbia	65,300	68,820	69,880	75,520
Florida	250,330	257,450	271,840	284,030
Georgia	160,820	169,940	NA	196,370
Hawaii	21,140	20,900	21,060	21,760
Idaho	25,850	26,460	28,320	29,050
Illinois	226,850	235,380	245,330	260,160
Indiana	100,870	104,000	104,290	106,230
Iowa	52,440	53,440	52,790	53,580
Kansas	51,240	50,120	53,660	57,150
Kentucky	53,920	54,350	56,190	55,340
Louisiana	46,750	49,120	48,440	46,770
Maine	18,840	19,410	19,960	20,580
Maryland	186,780	190,080	193,810	199,860
Massachusetts	227,780	230,480	231,640	242,960
Michigan	207,800	219,630	228,140	238,120

State Indicators

State	2013	2014	2015	2016
Minnesota	133,580	140,190	143,620	149,360
Mississippi	24,320	24,860	25,440	25,280
Missouri	105,730	106,980	110,220	116,670
Montana	15,570	15,540	16,320	15,840
Nebraska	36,480	36,220	37,950	39,780
Nevada	26,850	26,890	28,200	29,460
New Hampshire	28,460	28,320	29,290	30,400
New Jersey	184,720	188,240	193,440	204,000
New Mexico	34,900	36,180	37,510	38,420
New York	333,710	348,740	368,920	378,600
North Carolina	173,960	181,030	187,210	199,300
North Dakota	12,520	12,970	12,960	14,020
Ohio	218,030	219,830	233,570	239,800
Oklahoma	51,900	52,910	55,170	54,380
Oregon	79,040	80,470	86,350	89,080
Pennsylvania	243,850	248,750	255,170	262,280
Rhode Island	20,740	21,210	21,550	22,000
South Carolina	65,140	67,300	68,380	71,190
South Dakota	12,770	13,220	13,870	14,160
Tennessee	NA	86,680	88,820	90,240
Texas	514,400	541,060	563,410	566,230
Utah	57,980	62,810	64,670	68,630
Vermont	12,920	13,280	13,710	13,390
Virginia	276,230	272,410	270,990	275,350
Washington	209,710	208,630	219,130	227,910
West Virginia	19,490	20,110	20,490	20,510

State Indicators

State	2013	2014	2015	2016
Wisconsin	106,210	112,540	117,720	124,000
Wyoming	NA	9,050	8,980	8,460
Puerto Rico	22,790	23,320	22,930	24,190

NA not available

Science and Engineering Indicators 2018

State Indicators

S-44 State Agency R&D Expenditures per $1 Million of Gross Domestic Product

Description

This indicator represents the ratio of state agency R&D funding to the size of a state's economy. State R&D funding expenditures include state-administered funds from all sources, including the federal government, that support R&D performed by either a state agency or an external performer. Nationally, most R&D is performed by sources other than state agencies, which typically account for less than 1% of total R&D expenditures.

Data on state R&D funding cover R&D performed by intramural performers (state government departments, agencies, independent commissions, and other state-run entities) as well as extramural performers such as academic institutions, companies, and individuals.

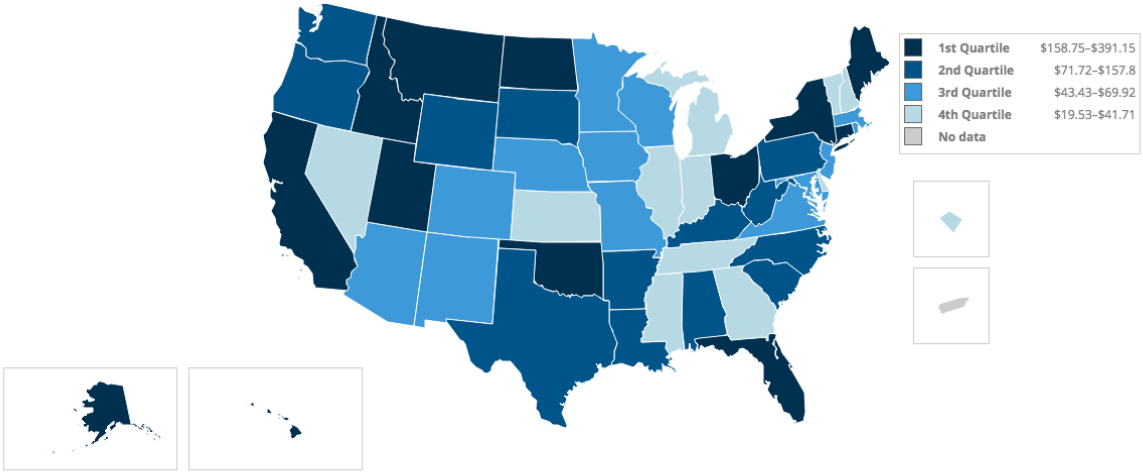
State R&D totals can display considerable volatility between survey years due to state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D. Because of differences in the survey populations, the definition of covered R&D activities, and collection methods, the results of the National Science Foundation surveys on state government R&D prior to 2006 are not comparable.

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

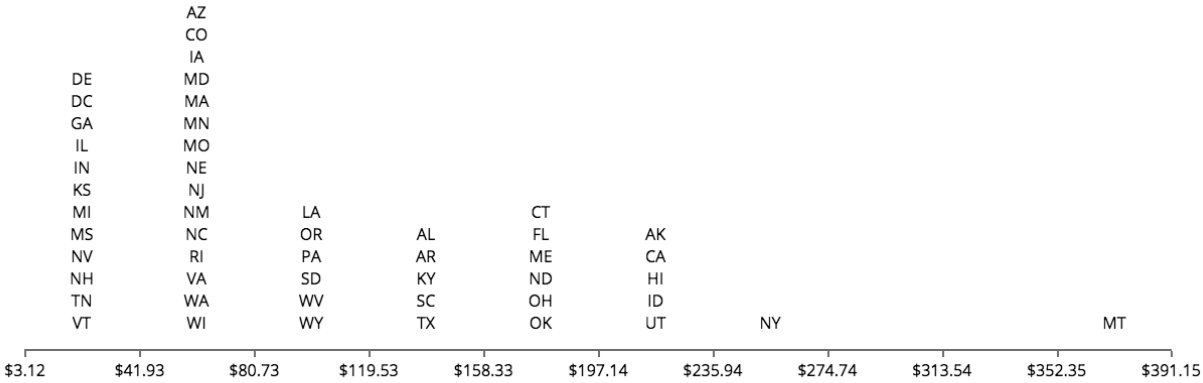
State Indicators

S-44 State Agency R&D Expenditures per $1 Million of Gross Domestic Product

2016



Distribution of states across indicator values, 2016



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

State Indicators

State Agency R&D Expenditures per $1 Million of Gross Domestic Product

(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
United States	76.52	80.37	NA	111.73	116.68	127.63	126.01	121.12	109.05	124.97
Alabama	44.20	53.35	NA	76.82	86.51	108.95	93.36	69.84	95.33	122.45
Alaska	224.25	193.63	NA	153.41	171.33	193.15	89.80	111.85	206.49	210.89
Arizona	149.53	78.01	NA	38.61	71.98	73.28	86.17	102.82	67.03	51.27
Arkansas	51.35	78.64	NA	116.97	140.32	137.07	142.08	144.33	127.16	140.24
California	77.62	61.66	NA	156.86	167.35	200.18	188.40	156.01	151.60	228.35
Colorado	38.79	48.49	NA	60.05	82.20	69.05	54.72	50.45	51.57	52.09
Connecticut	86.75	123.76	NA	122.28	170.84	167.32	167.11	170.24	193.66	217.77
Delaware	50.22	45.83	NA	29.36	41.58	43.54	76.46	77.39	34.06	31.94
District of Columbia	13.41	21.64	NA	4.95	6.71	11.33	18.40	16.52	26.96	26.55
Florida	56.73	67.51	NA	92.16	164.40	203.34	178.90	149.48	188.63	216.77
Georgia	26.27	11.70	NA	16.47	21.63	27.56	29.20	27.95	24.66	20.04
Hawaii	194.47	347.24	NA	213.76	208.62	187.15	153.66	175.46	170.83	142.94
Idaho	44.59	50.25	NA	158.72	163.95	165.06	202.83	212.46	203.30	197.62
Illinois	59.86	43.88	NA	15.00	25.33	25.31	25.11	24.93	33.42	39.91
Indiana	24.26	149.99	NA	181.44	29.92	23.95	25.56	32.68	72.72	29.96
Iowa	106.00	49.35	NA	277.06	91.39	248.53	102.04	119.31	60.98	64.15
Kansas	126.57	95.94	NA	99.25	50.64	48.48	43.70	39.79	36.09	36.02
Kentucky	115.42	76.95	NA	89.16	122.97	119.29	112.32	109.04	78.37	134.42
Louisiana	54.05	31.45	NA	39.29	39.40	63.40	75.17	66.98	77.56	135.15
Maine	362.42	556.61	NA	126.97	171.94	192.63	134.93	114.53	123.96	219.94
Maryland	89.85	140.57	NA	70.09	72.70	61.83	65.84	86.81	85.56	67.86
Massachusetts	29.76	14.78	NA	8.53	12.13	11.69	9.03	10.38	39.77	46.43

State Indicators

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Michigan	189.65	81.81	NA	23.77	24.59	24.54	30.14	29.86	27.52	26.93
Minnesota	24.87	40.67	NA	64.52	45.24	41.27	39.34	48.86	61.14	65.65
Mississippi	31.81	80.33	NA	38.69	74.82	76.53	61.77	46.98	12.59	7.37
Missouri	79.32	64.70	NA	63.08	52.10	53.10	48.98	47.30	53.42	56.96
Montana	261.48	228.12	NA	199.57	196.58	157.19	161.56	151.98	231.44	226.04
Nebraska	72.24	49.36	NA	50.78	45.89	40.64	62.44	68.13	59.08	48.26
Nevada	10.89	13.23	NA	12.57	8.88	11.58	9.30	12.80	25.92	22.03
New Hampshire	34.04	27.46	NA	29.91	28.12	29.46	33.48	26.09	20.37	21.64
New Jersey	55.70	41.55	NA	52.16	79.00	56.49	57.94	64.80	56.00	59.81
New Mexico	39.82	8.32	NA	19.99	16.53	20.41	19.90	22.19	44.08	43.82
New York	96.11	115.15	NA	326.91	324.78	329.62	293.79	287.27	271.02	256.35
North Carolina	37.07	94.71	NA	101.52	65.73	69.19	74.21	67.37	47.66	69.04
North Dakota	797.38	343.02	NA	505.27	175.48	191.45	114.97	133.98	180.87	171.87
Ohio	114.70	231.45	NA	253.16	250.75	301.42	278.73	333.48	160.41	155.27
Oklahoma	64.85	73.66	NA	110.90	141.59	123.91	132.72	151.74	154.87	159.31
Oregon	45.14	43.23	NA	61.43	94.25	100.04	111.71	117.42	145.97	147.75
Pennsylvania	223.05	185.71	NA	167.08	147.34	122.67	126.35	100.68	51.74	105.91
Rhode Island	3.12	36.88	NA	39.36	29.61	39.18	39.77	31.44	60.04	46.63
South Carolina	148.45	199.63	NA	178.26	434.42	497.63	415.13	262.91	116.71	135.85
South Dakota	178.09	155.65	NA	120.77	98.56	85.89	80.07	82.16	111.44	89.47
Tennessee	22.40	18.72	NA	15.22	4.22	13.84	15.43	11.91	14.60	12.09
Texas	25.75	25.14	NA	42.33	28.28	35.23	102.23	120.54	100.54	114.88
Utah	30.23	23.73	NA	233.61	261.75	277.50	370.17	402.46	259.55	255.99
Vermont	69.10	61.57	NA	28.94	62.52	61.85	58.64	63.70	69.47	72.58
Virginia	30.54	39.45	NA	55.64	68.81	68.45	75.47	80.18	83.73	90.60
Washington	72.08	67.44	NA	46.73	105.85	122.92	127.41	116.19	94.93	85.13

State Indicators

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
West Virginia	105.93	376.74	NA	162.17	354.88	500.04	473.17	263.97	151.56	147.73
Wisconsin	46.44	56.54	NA	101.81	49.18	80.50	65.57	75.34	50.34	48.14
Wyoming	193.63	536.74	NA	129.46	139.92	130.59	171.12	158.60	154.05	130.93
Puerto Rico	16.71	25.98	NA	96.66	40.98	42.03	75.08	77.60	64.13	55.01

NA not available

Note(s):
The national state agency R&D expenditure total reported here for the United States includes Puerto Rico; The national GDP total for the United States includes Puerto Rico.

Source(s):
National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Research and Development, data as of December 2017; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); 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. "State Agency R&D Expenditures per $1 Million 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/state-rd-expenditures-to-state-gdp

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

State Agency R&D Expenditures per $1 Million of Gross Domestic Product

(Dollars)

State	2016
United States	124.84
Alabama	121.05
Alaska	198.62
Arizona	51.76
Arkansas	142.87
California	220.54
Colorado	51.43
Connecticut	187.79
Delaware	38.29
District of Columbia	32.01
Florida	168.38
Georgia	24.92
Hawaii	214.88
Idaho	215.55
Illinois	21.39
Indiana	38.11
Iowa	68.79
Kansas	41.71
Kentucky	149.26
Louisiana	115.98
Maine	192.83
Maryland	69.92
Massachusetts	46.14

State Indicators

State	2016
Michigan	35.14
Minnesota	68.21
Mississippi	21.72
Missouri	48.93
Montana	391.15
Nebraska	66.27
Nevada	38.76
New Hampshire	19.53
New Jersey	52.46
New Mexico	51.16
New York	272.07
North Carolina	71.72
North Dakota	162.61
Ohio	158.75
Oklahoma	182.91
Oregon	109.47
Pennsylvania	100.96
Rhode Island	58.72
South Carolina	145.49
South Dakota	93.72
Tennessee	21.41
Texas	157.80
Utah	201.25
Vermont	33.49
Virginia	67.88
Washington	74.90

State Indicators

State	2016
West Virginia	112.21
Wisconsin	43.43
Wyoming	111.84
Puerto Rico	NA

NA not available

Note(s):
The national state agency R&D expenditure total reported here for the United States includes Puerto Rico; The national GDP total for the United States includes Puerto Rico.

Source(s):
National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Research and Development, data as of December 2017; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

State agency R&D expenditures

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
United States	1,060,563,375	1,163,803,784	NA	1,610,799,997	1,745,329,282	1,979,056,193	2,034,085,704	2,020,169,228	1,895,355,262	2,252,913,224
Alabama	7,269,319	9,065,725	NA	12,929,167	15,113,917	19,684,063	17,352,984	13,292,741	18,532,534	24,486,963
Alaska	10,019,060	9,526,100	NA	7,741,467	9,274,800	11,349,400	5,467,944	6,689,384	12,031,675	11,258,203
Arizona	37,151,471	20,442,635	NA	9,363,943	17,682,315	18,626,577	22,809,895	27,810,970	18,820,149	14,942,124
Arkansas	4,869,648	7,658,199	NA	11,465,214	14,446,084	14,705,327	15,518,374	16,518,947	14,994,903	16,642,711
California	145,880,736	120,641,324	NA	299,929,949	328,982,383	407,616,001	401,522,758	346,942,036	356,158,885	568,971,595
Colorado	8,997,236	11,924,981	NA	14,849,581	20,828,274	18,141,931	14,928,809	14,471,683	15,745,589	16,321,056
Connecticut	19,209,064	29,285,710	NA	28,559,052	40,065,786	39,192,091	40,017,523	41,023,368	47,405,244	55,816,528
Delaware	2,812,102	2,611,108	NA	1,683,562	2,389,720	2,609,902	4,635,720	4,729,141	2,243,868	2,199,635
District of Columbia	1,173,076	2,009,000	NA	487,411	696,198	1,221,108	2,018,447	1,848,800	3,136,271	3,216,073
Florida	42,329,624	51,968,573	NA	66,513,756	120,848,726	150,764,438	136,706,540	118,781,266	157,004,903	191,598,669
Georgia	10,620,188	4,886,946	NA	6,662,887	8,923,795	11,690,663	12,820,412	12,697,846	11,776,221	10,052,848
Hawaii	12,067,849	22,643,330	NA	13,976,364	14,233,186	13,103,983	11,145,520	13,094,794	13,125,455	11,520,961
Idaho	2,280,873	2,739,006	NA	8,552,058	9,059,568	9,366,052	11,785,529	12,929,174	12,862,935	12,935,976
Illinois	37,184,281	28,372,676	NA	9,570,893	16,553,689	17,207,125	17,859,438	17,999,229	24,988,306	30,817,406
Indiana	6,220,575	40,534,381	NA	47,549,928	8,444,832	6,983,364	7,667,988	10,167,120	23,590,723	9,987,058
Iowa	13,564,062	6,790,053	NA	37,976,643	12,950,176	36,992,222	16,147,249	19,365,308	10,357,010	11,277,534
Kansas	14,348,384	11,752,696	NA	12,305,385	6,509,225	6,635,626	6,160,680	5,708,223	5,326,455	5,469,052
Kentucky	17,558,997	11,960,634	NA	13,938,134	20,410,096	20,498,849	19,886,257	19,751,055	14,556,867	25,794,534
Louisiana	11,216,568	6,587,314	NA	8,285,478	9,165,144	14,979,079	18,143,396	15,713,110	18,778,159	32,175,199
Maine	17,509,051	27,525,552	NA	6,400,019	8,847,471	9,918,765	7,094,736	6,109,793	6,857,948	12,609,815
Maryland	24,945,119	40,298,691	NA	21,093,331	22,825,402	20,084,540	21,890,225	29,467,445	29,981,260	24,852,978
Massachusetts	10,729,419	5,600,189	NA	3,290,198	4,884,430	4,878,927	3,918,500	4,590,424	18,259,928	22,664,539
Michigan	75,016,589	32,849,159	NA	8,630,209	9,469,440	9,802,873	12,557,954	12,830,423	12,252,555	12,675,635

State Indicators

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Minnesota	6,219,201	10,529,048	NA	16,655,913	12,212,546	11,653,327	11,524,686	14,855,954	19,378,825	21,455,746
Mississippi	2,744,882	7,343,892	NA	3,623,953	7,168,109	7,420,851	6,260,080	4,863,312	1,313,376	780,616
Missouri	18,465,303	15,567,277	NA	15,797,247	13,329,841	13,658,961	13,041,450	13,051,110	15,065,613	16,673,693
Montana	8,606,319	8,200,230	NA	7,200,442	7,543,860	6,474,190	6,841,897	6,570,018	10,428,010	10,362,726
Nebraska	5,602,163	4,043,480	NA	4,415,644	4,232,691	4,061,651	6,367,304	7,274,333	6,621,771	5,475,420
Nevada	1,397,463	1,748,776	NA	1,510,607	1,081,407	1,440,630	1,166,762	1,640,871	3,438,157	3,107,166
New Hampshire	2,040,544	1,685,178	NA	1,860,269	1,804,156	1,921,421	2,241,149	1,788,396	1,448,090	1,607,080
New Jersey	25,900,482	19,981,741	NA	25,146,838	38,639,539	27,868,781	29,818,258	34,413,516	30,384,821	33,756,028
New Mexico	3,105,000	672,921	NA	1,655,529	1,422,955	1,821,583	1,793,561	2,015,961	4,175,116	4,084,876
New York	103,597,135	128,361,166	NA	375,422,634	391,259,392	405,346,642	382,226,391	382,143,207	377,015,244	370,585,484
North Carolina	14,344,310	37,607,109	NA	41,404,202	27,342,380	29,611,785	32,529,885	30,649,974	22,614,350	34,502,384
North Dakota	21,062,090	9,908,722	NA	16,415,807	6,352,675	8,072,257	6,034,991	7,364,184	10,784,572	9,611,936
Ohio	55,068,629	114,086,509	NA	121,394,963	125,120,668	159,322,228	153,382,845	188,311,926	94,882,275	94,299,294
Oklahoma	8,922,036	10,731,050	NA	15,930,878	21,226,236	20,304,740	23,133,843	28,224,758	30,473,702	29,952,934
Oregon	7,382,722	7,389,914	NA	11,120,140	18,013,730	20,001,272	22,003,035	23,083,506	29,679,288	31,990,073
Pennsylvania	117,320,158	103,973,448	NA	95,896,714	87,913,796	75,491,812	80,600,099	66,429,400	35,432,244	75,024,127
Rhode Island	150,000	1,771,949	NA	1,877,724	1,461,239	1,947,727	2,028,402	1,640,778	3,225,472	2,594,978
South Carolina	22,427,746	31,969,826	NA	28,599,885	71,290,446	84,692,653	72,467,293	47,732,177	22,311,739	27,419,285
South Dakota	5,791,586	5,473,603	NA	4,430,602	3,762,637	3,629,155	3,447,633	3,660,854	5,067,005	4,211,838
Tennessee	5,355,000	4,549,998	NA	3,752,587	1,064,262	3,642,490	4,293,334	3,430,476	4,363,565	3,828,567
Texas	28,019,645	29,650,947	NA	49,381,346	35,163,655	47,372,367	146,989,380	185,199,541	162,287,552	185,094,332
Utah	3,214,170	2,752,228	NA	26,442,711	30,812,205	34,418,764	47,388,335	53,636,842	36,466,790	38,168,197
Vermont	1,680,533	1,529,805	NA	738,707	1,665,079	1,711,673	1,653,315	1,827,562	2,039,520	2,199,082
Virginia	11,579,623	15,486,526	NA	22,662,519	28,961,491	29,376,417	33,295,328	36,017,935	38,439,643	43,645,755
Washington	22,834,218	23,333,431	NA	16,284,702	38,073,580	45,498,369	49,553,326	47,122,876	40,357,249	38,002,018
West Virginia	6,024,577	22,179,830	NA	10,357,006	23,867,732	35,475,338	33,580,156	19,027,684	11,216,042	10,840,665

State Indicators

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Wisconsin	10,949,155	13,774,600	NA	24,942,415	12,435,548	21,128,936	17,861,390	21,212,446	14,643,835	14,517,671
Wyoming	6,326,604	19,500,357	NA	4,806,630	5,471,379	5,419,398	6,879,286	6,497,386	6,444,053	5,160,617
Puerto Rico	1,458,790	2,326,241	NA	9,316,754	4,031,391	4,217,869	7,625,412	7,949,965	6,569,500	5,673,544

NA not available

Science and Engineering Indicators 2018

State Indicators

State agency R&D expenditures

State	2016
United States	2,317,125,770
Alabama	24,798,503
Alaska	10,072,650
Arizona	15,679,948
Arkansas	17,242,823
California	573,988,835
Colorado	16,647,592
Connecticut	49,460,236
Delaware	2,694,787
District of Columbia	4,059,615
Florida	156,057,854
Georgia	13,093,428
Hawaii	18,032,316
Idaho	14,501,235
Illinois	16,934,897
Indiana	13,029,466
Iowa	12,296,647
Kansas	6,391,816
Kentucky	29,410,613
Louisiana	27,268,166
Maine	11,429,706
Maryland	26,447,700
Massachusetts	23,432,991
Michigan	17,120,981

State Indicators

State	2016
Minnesota	22,861,457
Mississippi	2,339,335
Missouri	14,723,621
Montana	17,990,469
Nebraska	7,643,505
Nevada	5,716,452
New Hampshire	1,520,798
New Jersey	30,483,309
New Mexico	4,772,978
New York	404,833,101
North Carolina	37,142,044
North Dakota	8,470,309
Ohio	99,329,386
Oklahoma	33,460,991
Oregon	24,831,090
Pennsylvania	73,188,503
Rhode Island	3,372,460
South Carolina	30,512,353
South Dakota	4,511,516
Tennessee	7,040,422
Texas	255,132,755
Utah	31,465,580
Vermont	1,041,249
Virginia	33,556,333
Washington	35,183,195
West Virginia	8,233,431

State Indicators

State	2016
Wisconsin	13,442,158
Wyoming	4,234,165
Puerto Rico	NA

NA not available

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
United States	14,958,151	15,506,355	16,142,806	16,679,187	17,379,962	18,028,287	18,561,329
Alabama	174,710	180,665	185,878	190,319	194,404	199,980	204,861
Alaska	54,134	58,759	60,890	59,808	58,267	53,384	50,713
Arizona	245,668	254,192	264,693	270,469	280,790	291,448	302,952
Arkansas	102,951	107,287	109,226	114,456	117,922	118,677	120,689
California	1,965,886	2,036,297	2,131,199	2,223,892	2,349,338	2,491,619	2,602,672
Colorado	253,374	262,719	272,799	286,835	305,309	313,329	323,692
Connecticut	234,528	234,233	239,462	240,975	244,784	256,306	263,379
Delaware	57,471	59,937	60,628	61,109	65,888	68,864	70,387
District of Columbia	103,831	107,738	109,685	111,890	116,309	121,119	126,815
Florida	735,098	741,455	764,136	794,644	832,340	883,861	926,817
Georgia	412,485	424,126	439,058	454,238	477,522	501,522	525,360
Hawaii	68,225	70,017	72,532	74,630	76,835	80,599	83,917
Idaho	55,258	56,744	58,105	60,854	63,272	65,460	67,275
Illinois	653,476	679,776	711,370	721,876	747,641	772,182	791,608
Indiana	282,259	291,570	299,996	311,150	324,425	333,363	341,909
Iowa	141,697	148,843	158,246	162,305	169,843	175,809	178,766
Kansas	128,542	136,884	140,964	143,471	147,585	151,845	153,258
Kentucky	165,974	171,835	177,046	181,135	185,748	191,897	197,043
Louisiana	232,596	236,248	241,378	234,608	242,102	238,075	235,109
Maine	51,456	51,490	52,580	53,348	55,325	57,332	59,275
Maryland	313,952	324,830	332,500	339,443	350,430	366,242	378,280
Massachusetts	402,652	417,283	434,098	442,090	459,118	488,100	507,913
Michigan	385,021	399,437	416,701	429,644	445,209	470,611	487,239

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	269,937	282,397	292,920	304,063	316,973	326,833	335,147
Mississippi	95,810	96,968	101,351	103,523	104,284	105,871	107,680
Missouri	255,865	257,225	266,245	275,911	282,034	292,718	300,891
Montana	38,375	41,187	42,349	43,229	45,058	45,845	45,994
Nebraska	92,231	99,935	101,973	106,765	112,087	113,458	115,345
Nevada	121,713	124,445	125,440	128,205	132,653	141,070	147,475
New Hampshire	64,159	65,214	66,948	68,558	71,100	74,269	77,855
New Jersey	489,130	493,343	514,662	531,072	542,549	564,360	581,122
New Mexico	86,079	89,261	90,146	90,834	94,707	93,230	93,297
New York	1,204,688	1,229,743	1,301,041	1,330,236	1,391,086	1,445,611	1,487,998
North Carolina	416,008	427,974	438,350	454,945	474,482	499,741	517,904
North Dakota	36,202	42,164	52,493	54,965	59,627	55,927	52,089
Ohio	498,989	528,567	550,299	564,683	591,485	607,326	625,715
Oklahoma	149,913	163,868	174,305	186,007	196,767	188,011	182,937
Oregon	191,120	199,929	196,973	196,594	203,326	216,522	226,821
Pennsylvania	596,662	615,411	637,896	659,792	684,781	708,402	724,936
Rhode Island	49,351	49,716	50,997	52,187	53,725	55,650	57,433
South Carolina	164,106	170,193	174,567	181,556	191,168	201,831	209,716
South Dakota	38,176	42,253	43,056	44,560	45,470	47,073	48,139
Tennessee	252,478	263,175	278,298	288,012	298,865	316,659	328,770
Texas	1,243,398	1,344,733	1,437,893	1,536,472	1,614,127	1,611,189	1,616,801
Utah	117,714	124,031	128,018	133,274	140,500	149,099	156,352
Vermont	26,633	27,676	28,195	28,690	29,360	30,300	31,092
Virginia	420,862	429,174	441,144	449,235	459,068	481,721	494,349
Washington	359,694	370,149	388,922	405,561	425,105	446,417	469,739
West Virginia	67,255	70,945	70,969	72,082	74,002	73,384	73,374

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	252,875	262,463	272,420	281,569	290,889	301,587	309,536
Wyoming	39,103	41,499	40,201	40,968	41,832	39,415	37,858
Puerto Rico	98,381	100,352	101,565	102,450	102,446	103,144	105,035

Science and Engineering Indicators 2018

State Indicators

S-45 Business-Performed R&D as a Percentage of Private-Industry Output

Description

This indicator represents the role of R&D in a state's business activity. The business sector is the largest performer of U.S. R&D. The overwhelming majority of business R&D performance is self-funded. A high value for this indicator indicates that the businesses within a state are making a large investment in their R&D activities in that state. Values for this indicator vary greatly across the nation, and business-performed R&D is often concentrated in a handful of states.

The methodology for data collection, assignment to individual states, and developing estimates of R&D funding and performance has changed during the last decade as the transition was made from the National Center for Science and Engineering Statistics' Survey of Industrial R&D to the Business R&D and Innovation Survey. The U.S. total for industrial R&D spending is consistent between these two surveys. Estimates for states with smaller economies are generally less precise than those for states with larger economies.

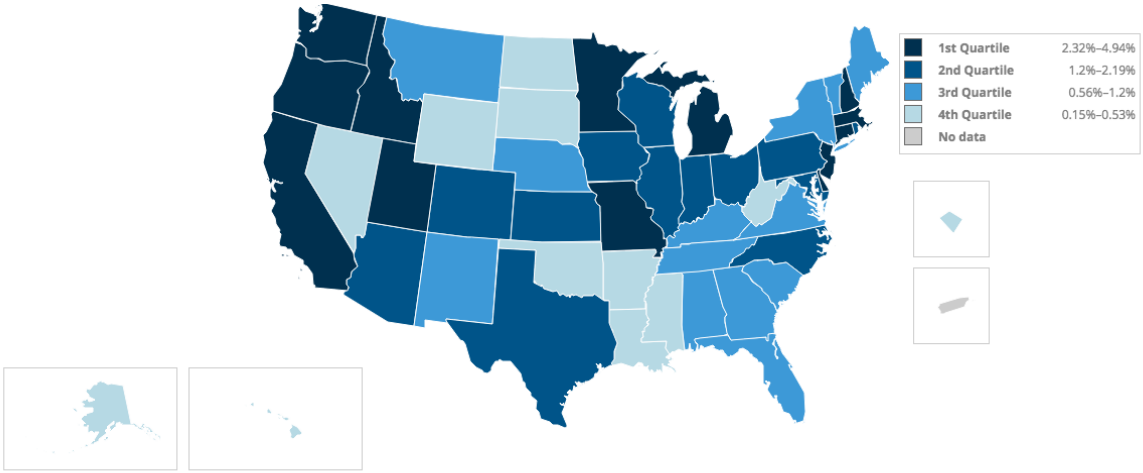
Private-industry output is the portion of state gross domestic product contributed by state businesses. Data for private-industry output come from the Bureau of Economic Analysis.

Data sources: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Industrial Research and Development and Business R&D and Innovation Survey; U.S. Bureau of Economic Analysis, Gross Domestic Product data.

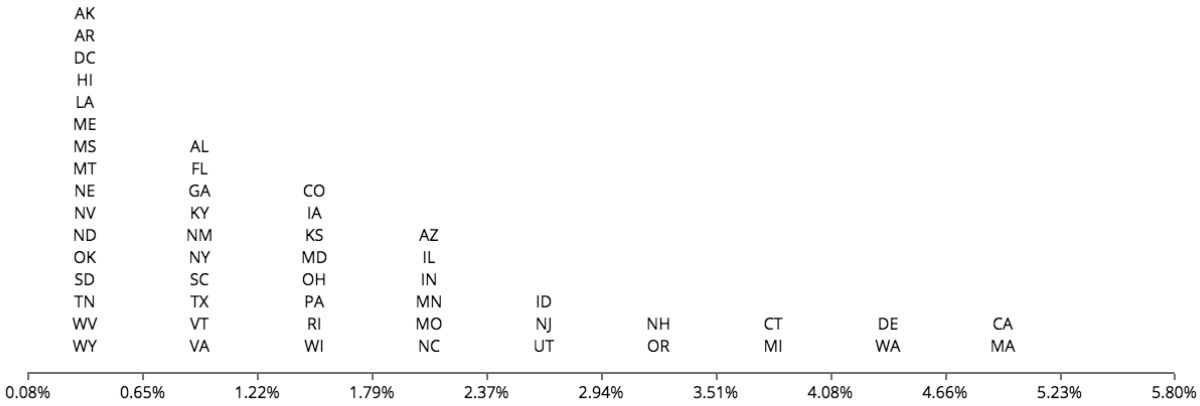
State Indicators

S-45 Business-Performed R&D as a Percentage of Private-Industry Output

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

Business-Performed R&D as a Percentage of Private-Industry Output

(Percent)

State	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
United States	2.11	2.14	2.19	2.26	2.19	2.04	2.02	1.96	1.99	2.06
Alabama	0.68 i	0.92	0.85	0.82 i	0.88	0.79	0.89	1.00	1.08	1.33
Alaska	0.12 i	0.20 e	0.43 e	0.23 e	0.30	0.22 e	0.14 e	0.12 e	0.10 e	0.13 e
Arizona	1.62	1.44	1.55 i	1.51 i	1.81	2.06	1.56	1.45	1.51	1.66
Arkansas	0.22	0.39 e	0.56	0.66	0.41 e	0.35 e	0.39	0.39	0.34	0.35
California	3.60	3.26	3.48	3.80	3.73	3.39	3.50	3.25	3.27	3.54
Colorado	1.92	2.43	2.27	1.97	1.87	1.68	2.05	2.26	2.24	2.30
Connecticut	2.38	2.50	2.96 i	2.70 i	2.96	3.80	3.54	3.97	4.17	4.15
Delaware	3.30 i	3.99 i	3.42 i	3.57 i	2.81	2.86	2.92	2.22	3.14	2.85
District of Columbia	NA	1.80 i	0.74 e	0.51 e	0.58	0.44	0.50	0.35 e	0.31	0.48
Florida	0.98	0.86	0.85	0.87 i	0.81	0.75	0.60	0.62	0.67	0.62
Georgia	0.60	0.70	0.75	0.80 i	0.68	0.74	0.71	0.68	0.67	0.79
Hawaii	0.29	0.19 e	0.22 e	0.28 e	0.27	0.29	0.34	0.31	0.36	0.31
Idaho	4.72 i	4.17 i	4.23	4.15	2.77	3.01	2.16	1.84	1.60	1.43
Illinois	1.64	1.84	1.94	1.89 i	1.82	1.66	1.75	1.71	1.85	1.93
Indiana	1.72	1.73	1.62 i	1.56 i	1.92	1.85	1.80	1.96	2.09 i	2.13
Iowa	0.78	0.99	0.94	0.91	0.97	0.85	0.89	0.92	0.95	0.93
Kansas	1.75 i	2.02 i	2.03 i	1.77 i	1.69 i	1.81 i	2.03 i	2.13 i	2.22 i	2.12 i
Kentucky	0.40	0.64	0.77	0.77	0.62	0.62	0.55	0.49	0.54	0.65
Louisiana	0.17	0.36 e	0.47 e	0.31 e	0.26 e	0.20 e	0.21	0.21	0.17	0.20
Maine	0.31	0.49	0.70	0.80	0.74	0.72 i	0.55	0.55	0.88	0.61
Maryland	1.12	1.41	1.40	1.44	2.23	2.19	1.71	1.93	1.75	1.54
Massachusetts	3.95	4.68	4.15	4.19	4.43	3.92	3.95	4.02	4.34	4.86

State Indicators

State	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Michigan	4.81	4.48	5.58	5.57 i	4.59	4.19	4.56	4.47	4.79	4.72
Minnesota	2.23	2.25	2.36	2.33	2.49	2.46	2.59	2.52	2.90	2.82
Mississippi	0.15	0.36 e	0.42 e	0.44 e	0.39 e	0.39	0.33	0.25	0.29	0.32
Missouri	0.89 i	0.99	1.05	1.19	1.06	0.92	0.97	1.14	1.32	1.31
Montana	0.58	0.37	0.53 e	0.43 e	0.37 e	0.33	0.31	0.30	0.30 i	0.37 i
Nebraska	0.16	0.43 e	0.46 e	0.68 e	0.59	0.65	0.63	0.63	0.64	0.67
Nevada	0.71	0.83	0.77	0.63	0.40	0.44	0.47	0.44	0.36	0.46
New Hampshire	1.92	3.15	3.10	1.78	3.21	2.65	2.95	2.77	2.83	3.35 i
New Jersey	4.02	3.87	3.35	3.24	3.01	3.31	3.13	2.91	3.36	3.53
New Mexico	3.21 i	3.78 i	3.34 i	2.86 i	0.55	0.76	0.71	0.84	0.71	1.13
New York	1.58 i	1.57	1.76	1.58	1.40	1.17	1.07	1.04	1.05	1.00
North Carolina	1.77	1.61	1.62	1.88	1.75	1.42	1.63	1.59	1.67	1.63
North Dakota	0.25	0.33 e	0.66 e	0.55 e	2.18	0.91	1.16	1.94 i	0.50	0.54
Ohio	1.84	1.77	1.94	1.78	1.90	1.70	1.65	1.38	1.43	1.61
Oklahoma	0.64	0.54	0.80 e	0.61	0.67 e	0.50	0.65	0.43	0.40	0.41
Oregon	1.26	1.47	1.52	1.51	2.67	2.23 i	2.69	2.47	2.52	2.37
Pennsylvania	2.08 i	2.21	2.14	2.32	2.36	1.81	1.75	1.86	1.96	2.10
Rhode Island	2.85 i	5.08 i	4.77 i	3.96 i	3.67 i	3.42	3.45 i	3.54 i	3.56 i	3.24 i
South Carolina	0.94 i	1.12	0.98	1.08	0.91	1.00	0.88	0.84	1.16	1.10
South Dakota	0.16	0.23 e	0.31 e	0.45 e	0.42 e	0.23	0.31	0.27	0.25	0.34
Tennessee	0.80	1.67	1.43	1.03	0.91	0.75	0.84	0.85	0.62	0.68
Texas	1.34	1.56	1.43	1.53	1.43	1.55	1.50	1.37	1.41	1.37
Utah	2.14	2.14	1.84	1.78	1.89	1.74	1.48	1.50	1.53	1.39
Vermont	1.82	0.81	2.31	2.43	2.02	1.63 i	1.95	2.17	1.78	1.73
Virginia	0.99	1.32	1.29	1.21	1.26	1.21	1.37	1.48	1.48	1.55
Washington	3.99 i	3.92 i	3.55 i	4.02 i	4.35 i	4.03	4.19	3.84 i	3.84	4.18

State Indicators

State	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
West Virginia	NA	0.99	1.00	0.92	0.57	0.70	0.57	0.49	0.55	0.47
Wisconsin	1.23	1.32	1.42	1.49	1.47 i	1.52 e	1.45	1.38	1.36	1.44
Wyoming	0.23	0.16 e	0.49 e	0.25 e	0.18 e	0.13	0.21	0.12	0.13	0.09 e
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

e more than 50% of the cell value is imputed due to raking of state data
i more than 50% of value is imputed due to reasons other than raking of state data
NA not available

Note(s):
The national total for business-performed R&D in the United States includes undistributed business-performed R&D and states with suppressed data. Please see source for information on estimation techniques; The national private industry output value for the United States does not include territories.

Source(s):
National Science Foundation, National Center for Science and Engineering Statistics, Survey of Industrial Research and Development and Business R&D and Innovation Survey (various years), data as of July 2017; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years), data as of May 2017.

Recommended Citation: National Science Board. 2018. "Business-Performed R&D as a Percentage of Private-Industry Output." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/business-performed-rd-to-private-industry-output

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Science and Engineering Indicators 2018

State Indicators

Business-Performed R&D as a Percentage of Private-Industry Output

(Percent)

State	2007	2008	2009	2010	2011	2012	2013	2014	2015
United States	2.14	2.29	2.29	2.18	2.20	2.17	2.23	2.25	2.27
Alabama	1.25	2.17	1.14	1.01	1.27	0.84	0.99	1.22	0.94
Alaska	0.14 e	0.15	0.17	0.17	0.17 e	0.08 e	0.09	0.12 e	0.15 e
Arizona	1.68	2.37	2.26	1.94	2.27	2.19	2.25	2.27	2.19
Arkansas	0.40	0.51	0.84	0.31	0.37	0.32	0.29	0.31	0.29
California	3.75	3.92	3.93	3.82	4.25	4.40	4.59	4.79	4.94
Colorado	2.42	1.80	1.85	1.78	1.89	1.73	1.80	1.70	1.59
Connecticut	4.42	4.91	5.08	3.09	3.58	3.42	3.72	4.16	3.72
Delaware	2.87	NA	4.00	4.19	3.92	4.47	4.23 i	4.25	4.31
District of Columbia	0.62	0.89	1.07	0.36	0.61	0.37	0.67	0.44	0.37
Florida	0.68	0.64	0.69	0.81	0.93	0.79	0.84	0.79	0.75
Georgia	0.76	0.94	1.12	1.03	1.05	1.02	1.02	1.11	1.05
Hawaii	0.42	0.51	0.47	0.49	0.47	0.33	0.37 i	0.33	0.29
Idaho	1.55	2.01	2.22	2.38 i	2.41	2.17	2.36	2.65	2.75
Illinois	1.95	1.55	1.62	2.10	1.98	2.04	2.02	1.84	1.83
Indiana	2.02	2.03	2.23	1.96	2.34	2.23	2.29	2.00	2.07
Iowa	0.98	1.24	1.62	1.57	1.76	1.26	1.43	1.40	1.63
Kansas	1.24	1.46	1.53	1.36	1.29	1.71	1.57	1.52	1.62
Kentucky	0.67	0.70	0.75	0.64	0.88	0.72	0.83	0.73	0.79
Louisiana	0.20 e	0.21	0.22	0.21	0.22	0.17 i	0.17	0.18	0.19 i
Maine	0.63	0.72	1.24	0.57	0.67	0.61	0.80	0.79	0.61
Maryland	1.60	1.85	1.89	1.77	2.00	1.54	1.78	1.85	1.77
Massachusetts	5.80	4.41	4.24	3.94	4.28	4.54	4.43	5.17	4.94

State Indicators

State	2007	2008	2009	2010	2011	2012	2013	2014	2015
Michigan	4.44	4.09	3.82	3.63	3.90	4.06	4.19	4.31	4.08
Minnesota	2.86	2.43	3.01	2.60	2.44	2.37	2.42	2.45	2.32
Mississippi	0.37	0.31	0.34	0.31	0.30	0.33	0.25	0.31	0.25
Missouri	1.30	NA	NA	3.64 i	NA	3.00 i	2.97 i	2.71 i	2.36 i
Montana	0.44	0.48	0.48	0.45	0.39	0.29 i	0.25	0.53	0.58 i
Nebraska	0.69	0.76	0.80	0.66	0.73	0.65	0.67	0.60	0.58
Nevada	0.48	0.59	0.59	0.67	0.58	0.57	0.46	0.54	0.31
New Hampshire	3.36 i	4.04	NA	3.26	3.62	3.16	3.39	3.26	2.94
New Jersey	4.19	4.38	4.34	3.70	3.20	3.46	2.98	2.86	2.81
New Mexico	0.91	1.10	0.99	0.83	0.69	0.65	0.75	0.68	0.70
New York	1.11	1.17	1.09	1.04	1.12	1.02	1.03	1.12	1.20
North Carolina	2.00	1.75	1.60	1.63	1.70	1.67	2.07	1.98	1.98
North Dakota	0.51	1.06	0.83	0.76	0.70	0.47	0.46	0.50	0.42
Ohio	1.67	1.71	1.63	1.58	1.50	1.60	1.63	1.70	1.68
Oklahoma	0.43	0.45	0.43	0.39	0.44	0.31	0.32	0.36	0.42
Oregon	2.40 i	2.55	2.57	2.61	2.62	2.97 i	3.25	3.60	3.32
Pennsylvania	2.08	1.89	1.96	1.75	1.77	1.63	1.82	1.76	1.63
Rhode Island	1.01	1.34	1.13	1.27	1.29	1.04	1.28	1.18	1.57
South Carolina	1.06	0.91	0.95	0.97	0.99	1.11	0.67	0.68	0.76
South Dakota	0.43	0.41	0.45	0.36	0.37	0.30	0.41	0.34	0.33
Tennessee	0.76	0.74	0.69	0.56	0.62	0.59	0.56	0.60	0.56
Texas	1.32	1.45	1.49	1.31	1.28	1.18	1.13	1.13	1.20
Utah	1.75	1.95	2.16	2.06	2.30	1.94	2.56	2.31	2.52
Vermont	1.94	1.95	1.93	1.38	1.59 i	1.94 i	1.67 i	1.21	0.96
Virginia	1.51	1.90	1.87	1.37	1.61	1.33	1.22	1.34 i	1.14
Washington	4.26	4.58	5.58	4.45	4.62	4.38	4.28	4.30	4.40

State Indicators

State	2007	2008	2009	2010	2011	2012	2013	2014	2015
West Virginia	0.47	0.64	0.66	0.43	0.41	0.51	0.51	0.45	0.33
Wisconsin	1.58	1.76	1.69	1.77	1.76	1.73	1.70	1.66	1.75
Wyoming	0.12 e	0.17	0.15	0.12 e	0.13 e	0.09 e	0.08 e	0.16	0.53
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Science and Engineering Indicators 2018

State Indicators

Business-performed domestic R&D

State	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
United States	157,539	169,180	184,129	201,962	202,017	193,868	200,724	208,301	226,159	247,669
Alabama	589 i	845	823	821 i	905	846	992	1,227	1,417	1,835
Alaska	24 i	37 e	82 e	48 e	68	51 e	36 e	35 e	32 e	49 e
Arizona	1,854	1,801	2,109 i	2,182 i	2,707	3,201	2,604	2,570	2,980	3,590
Arkansas	118	213 e	326	400	254 e	225 e	270	287	271	285
California	34,011	32,856	38,169	45,455	44,628	42,177	46,401	46,614	50,683	58,424
Colorado	2,248	3,180	3,266	3,143	3,082	2,823	3,543	4,008	4,299	4,657
Connecticut	3,014	3,346	4,145 i	4,132 i	4,686	6,077	5,834	7,177	7,885	8,273
Delaware	1,009 i	1,356 i	1,295 i	1,468 i	1,232	1,219	1,298	1,059	1,511	1,446
District of Columbia	NA	598 i	268 e	196 e	242	194	235	182 e	166	276
Florida	3,442	3,265	3,482	3,773 i	3,755	3,707	3,155	3,486	4,164	4,139
Georgia	1,273	1,617	1,904	2,159 i	1,912	2,107	2,104	2,160	2,282	2,786
Hawaii	87	55 e	68 e	93 e	93	103	133	131	168	155
Idaho	1,181 i	1,103 i	1,239	1,363	884	992	745	681	642	625
Illinois	6,248	7,318	8,102	8,393 i	8,232	7,616	8,319	8,554	9,712	10,765
Indiana	2,677	2,922	2,863 i	2,888 i	3,583	3,572	3,658	4,208	4,610 i	4,858
Iowa	578	750	730	762	817	753	833	963	1,039	1,055
Kansas	1,136 i	1,384 i	1,448 i	1,327 i	1,299 i	1,427 i	1,675 i	1,804 i	1,993 i	2,064 i
Kentucky	359	606	777	762	636	656	601	565	660	839
Louisiana	172	377 e	516 e	364 e	316 e	248 e	289	311	300	367
Maine	83	137	208	255	249	250 i	200	213	350	253
Maryland	1,425	1,905	2,020	2,213	3,682	3,800	3,118	3,826	3,706	3,421
Massachusetts	8,300	10,367	9,781	10,857	11,756	10,609	11,092	11,819	13,342	15,562
Michigan	13,009	12,554	16,877	17,489 i	14,283	13,565	15,217	15,170	16,752	16,477

State Indicators

State	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Minnesota	3,116	3,367	3,695	3,971	4,355	4,460	5,003	5,199	6,340	6,296
Mississippi	73	183 e	224 e	242 e	219 e	224	199	160	194	231
Missouri	1,290 i	1,505	1,664	1,978	1,792	1,592	1,742	2,151	2,602	2,675
Montana	92	63	92 e	78 e	70 e	66	65	70	77 i	103 i
Nebraska	71	195 e	217 e	335 e	306	342	363	383	407	447
Nevada	380	476	490	433	290	339	383	417	382	535
New Hampshire	652	1,138	1,157	722	1,339	1,153	1,349	1,330	1,435	1,774 i
New Jersey	11,069	11,107	10,145	10,580	10,164	11,566	11,405	10,993	13,214	14,606
New Mexico	1,310 i	1,450 i	1,352 i	1,203 i	231	331	338	450	405	676
New York	9,939 i	10,283	12,260	11,622	10,884	9,234	8,528	8,793	9,474	9,518
North Carolina	3,590	3,483	3,754	4,535	4,437	3,704	4,423	4,565	5,158	5,486
North Dakota	33	46 e	95 e	83 e	347	154	216	379 i	104	120
Ohio	5,608	5,742	6,531	6,245	6,694	6,230	6,258	5,516	5,900	6,852
Oklahoma	428	369	562 e	463	543 e	412	576	410	422	474
Oregon	1,102	1,345	1,408	1,533	2,677	2,320 i	2,956	3,057	3,252	3,419
Pennsylvania	6,609 i	7,393	7,474	8,473	8,967	7,064	7,091	8,005	8,846	9,819
Rhode Island	704 i	1,332 i	1,317 i	1,167 i	1,134 i	1,121	1,203 i	1,320 i	1,387 i	1,330 i
South Carolina	783 i	996	922	1,059	921	1,054	976	961	1,402	1,396
South Dakota	26	40 e	57 e	89 e	87 e	53	75	72	68	95
Tennessee	1,089	2,440	2,205	1,644	1,503	1,289	1,507	1,630	1,246	1,428
Texas	7,265	8,984	8,661	10,048	9,839	10,744	11,008	10,992	12,438	13,334
Utah	1,027	1,119	1,028	1,063	1,173	1,116	996	1,089	1,234	1,274
Vermont	246	114	346	389	339	286 i	360	423	360	360
Virginia	1,767	2,540	2,662	2,683	2,957	2,920	3,492	4,006	4,379	4,816
Washington	6,610 i	7,072 i	7,093 i	8,235 i	8,933 i	8,579	9,220	8,840 i	9,736	11,320
West Virginia	NA	335	351	329	211	264	219	202	242	221

State Indicators

State	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Wisconsin	1,707	1,929	2,194	2,415	2,469 i	2,649 e	2,623	2,645	2,729	3,020
Wyoming	28	20 e	65 e	37 e	28 e	21	37	23	30	27 e
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Business-performed domestic R&D

State	2007	2008	2009	2010	2011	2012	2013	2014	2015
United States	269,267	290,681	282,393	278,977	294,093	302,250	322,528	340,728	355,821
Alabama	1,771	3,099	1,562	1,449	1,879	1,284	1,563	1,961	1,561
Alaska	58 e	69	71	74	84 e	39 e	46	57 e	66 e
Arizona	3,846	5,232	4,682	4,054	4,931	4,962	5,208	5,499	5,515
Arkansas	339	443	709	276	344	305	288	317	302
California	64,187	67,532	64,939	64,914	75,035	81,689	89,373	98,488	107,982
Colorado	5,223	4,019	3,960	3,899	4,310	4,105	4,522	4,551	4,362
Connecticut	9,444	10,518	10,638	6,498	7,504	7,343	8,010	9,093	8,533
Delaware	1,472	NA	2,046	2,144	2,097	2,415	2,310 i	2,520	2,681
District of Columbia	379	571	672	235	415	260	488	338	299
Florida	4,569	4,178	4,329	5,127	5,988	5,211	5,795	5,783	5,816
Georgia	2,788	3,344	3,905	3,644	3,839	3,875	4,023	4,635	4,614
Hawaii	218	269	240	257	252	188	214 i	196	186
Idaho	726	961	1,015	1,120 i	1,171	1,079	1,238	1,448	1,554
Illinois	11,362	8,900	9,188	12,221	12,038	13,001	13,096	12,371	12,710
Indiana	4,939	4,991	5,220	4,985	6,158	6,044	6,479	5,901	6,252
Iowa	1,202	1,509	1,943	1,950	2,314	1,763	2,052	2,098	2,539
Kansas	1,304	1,600	1,616	1,492	1,509	2,072	1,942	1,934	2,126
Kentucky	890	933	986	889	1,278	1,074	1,279	1,158	1,292
Louisiana	373 e	411	416	428	459	363 i	354	386	400 i
Maine	265	308	530	251	295	275	365	373	298
Maryland	3,665	4,333	4,492	4,384	5,101	4,028	4,770	5,124	5,136
Massachusetts	19,488	15,028	14,422	14,020	15,722	17,491	17,395	21,105	21,484
Michigan	15,736	13,742	11,999	12,144	13,660	14,912	15,925	17,077	17,136

State Indicators

State	2007	2008	2009	2010	2011	2012	2013	2014	2015
Minnesota	6,636	5,728	6,880	6,246	6,174	6,216	6,614	6,975	6,820
Mississippi	279	252	260	243	235	273	211	269	216
Missouri	2,736	NA	NA	8,106 i	NA	6,982 i	7,174 i	6,720 i	6,078 i
Montana	134	148	144	145	136	105 i	92	205	225 i
Nebraska	489	561	602	527	636	578	627	590	578
Nevada	567	677	619	709	638	634	525	631	381
New Hampshire	1,814 i	2,169	NA	1,818	2,069	1,857	2,045	2,041	1,932
New Jersey	17,892	19,054	18,404	15,925	13,930	15,810	14,022	13,743	14,113
New Mexico	568	735	623	546	472	445	519	499	502
New York	10,916	11,455	10,919	10,954	12,072	11,732	12,032	13,818	15,329
North Carolina	6,829	6,246	5,531	5,749	6,193	6,254	8,083	8,091	8,572
North Dakota	126	303	231	236	261	222	229	271	211
Ohio	7,265	7,405	6,811	6,857	6,993	7,755	8,118	8,945	9,044
Oklahoma	527	595	509	478	604	463	505	607	661
Oregon	3,629 i	4,074	4,080	4,396	4,631	5,156 i	5,635	6,434	6,357
Pennsylvania	10,387	9,735	9,989	9,246	9,718	9,318	10,761	10,816	10,354
Rhode Island	411	538	460	531	542	450	571	542	751
South Carolina	1,426	1,221	1,254	1,316	1,399	1,615	1,016	1,089	1,289
South Dakota	132	133	143	120	136	112	164	135	139
Tennessee	1,638	1,608	1,487	1,244	1,434	1,437	1,423	1,586	1,570
Texas	13,889	16,166	15,307	14,384	15,309	15,163	15,550	16,373	17,350
Utah	1,764	1,945	2,083	2,066	2,438	2,134	2,945	2,809	3,274
Vermont	413	422	418	313	374 i	466 i	406 i	302	247
Virginia	4,840	6,142	6,159	4,655	5,562	4,756	4,445	4,994 i	4,486
Washington	12,687	13,876	16,471	13,545	14,558	14,494	14,860	15,699	16,940
West Virginia	233	334	349	240	247	305	306	279	201

State Indicators

State	2007	2008	2009	2010	2011	2012	2013	2014	2015
Wisconsin	3,411	3,798	3,616	3,927	4,053	4,135	4,227	4,287	4,676
Wyoming	37 e	63	47	39 e	46 e	30 e	28 e	59	177
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Private-industry output

State	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
United States	7,459,395	7,894,015	8,403,164	8,956,010	9,223,548	9,499,527	9,950,967	10,627,989	11,366,297	12,045,446
Alabama	87,014	91,506	96,284	99,665	102,978	106,580	111,717	123,016	131,370	137,954
Alaska	20,284	18,776	19,293	21,235	22,642	23,363	25,190	28,041	32,475	36,737
Arizona	114,739	124,648	135,978	144,666	149,576	155,487	166,857	176,749	197,738	216,682
Arkansas	53,067	54,592	58,640	60,283	61,841	64,681	68,691	74,444	78,619	82,415
California	945,830	1,007,437	1,095,761	1,197,217	1,197,983	1,242,701	1,324,365	1,435,602	1,547,616	1,648,709
Colorado	116,955	130,912	144,031	159,704	164,749	167,933	172,577	177,026	191,839	202,661
Connecticut	126,860	134,034	139,870	153,203	158,317	160,017	164,906	180,676	189,030	199,531
Delaware	30,590	34,021	37,840	41,115	43,803	42,604	44,410	47,626	48,090	50,791
District of Columbia	31,039	33,293	36,177	38,328	41,683	44,099	46,550	51,458	54,379	57,131
Florida	350,096	380,003	407,497	435,921	464,976	493,802	522,023	559,840	621,490	663,453
Georgia	212,104	232,254	254,109	270,755	279,945	284,508	296,418	317,876	339,364	353,229
Hawaii	29,877	29,587	30,783	32,851	34,152	35,880	38,638	42,440	46,529	49,272
Idaho	25,039	26,459	29,288	32,860	31,955	32,947	34,453	36,922	40,075	43,705
Illinois	380,212	396,831	417,872	443,600	452,598	460,087	474,994	500,206	525,358	557,784
Indiana	155,693	168,812	176,419	185,720	186,173	193,404	203,129	215,200	220,779	227,797
Iowa	74,243	75,553	78,072	83,700	84,255	88,096	93,917	104,719	109,340	113,324
Kansas	64,971	68,388	71,360	75,017	77,002	78,905	82,637	84,645	89,769	97,240
Kentucky	90,714	95,146	100,272	99,110	102,025	105,590	109,734	116,465	123,023	129,855
Louisiana	103,429	105,045	110,210	116,334	121,188	121,390	135,488	149,551	177,172	185,134
Maine	26,407	27,957	29,914	32,045	33,504	34,874	36,309	38,580	39,699	41,442
Maryland	127,798	135,243	144,380	153,953	164,796	173,471	182,048	197,942	211,789	222,411
Massachusetts	210,292	221,378	235,580	259,313	265,138	270,780	280,984	294,009	307,191	320,527
Michigan	270,221	280,290	302,217	313,960	311,130	323,381	334,010	339,315	349,691	349,411

State Indicators

State	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Minnesota	139,820	149,354	156,862	170,718	174,551	181,027	193,071	206,714	218,352	223,448
Mississippi	49,232	51,379	53,576	54,919	55,952	57,062	60,805	64,092	67,318	71,709
Missouri	145,207	151,582	158,286	166,885	169,547	173,557	180,201	189,413	196,868	204,019
Montana	15,900	16,965	17,304	18,127	19,077	19,776	21,202	23,254	25,677	27,670
Nebraska	43,556	45,096	46,791	49,558	51,545	52,949	57,635	61,063	63,590	66,793
Nevada	53,641	57,669	63,969	69,046	72,886	76,669	81,872	94,037	107,131	115,711
New Hampshire	34,006	36,134	37,268	40,497	41,661	43,523	45,668	48,052	50,637	52,919
New Jersey	275,477	287,349	302,519	326,093	337,143	349,709	364,419	377,553	393,234	413,687
New Mexico	40,781	38,349	40,439	42,017	42,336	43,295	47,698	53,394	56,721	59,840
New York	628,841	654,308	697,591	736,293	775,728	786,460	796,400	842,018	902,225	952,896
North Carolina	202,755	216,086	232,195	241,842	253,250	261,745	270,727	287,876	309,301	336,058
North Dakota	13,210	14,149	14,297	15,111	15,935	16,942	18,618	19,496	20,790	22,403
Ohio	304,688	324,913	337,318	350,854	352,647	366,106	378,489	398,663	413,338	424,521
Oklahoma	66,981	68,279	70,437	76,394	81,371	82,347	88,074	95,223	105,086	116,090
Oregon	87,271	91,502	92,799	101,840	100,302	104,109	109,794	123,710	128,988	144,458
Pennsylvania	317,488	334,166	349,452	365,593	380,727	390,004	406,001	429,819	450,599	467,894
Rhode Island	24,715	26,237	27,592	29,478	30,928	32,747	34,832	37,326	38,988	41,039
South Carolina	83,720	88,660	94,122	97,986	101,614	105,528	110,964	114,625	120,400	126,628
South Dakota	16,399	17,435	18,154	19,645	20,595	23,250	24,354	26,283	27,261	28,234
Tennessee	136,307	146,379	154,004	160,047	164,331	170,963	179,890	192,579	199,434	209,871
Texas	543,583	574,968	605,749	657,639	688,309	694,197	732,725	804,860	879,504	971,908
Utah	47,948	52,293	55,874	59,572	62,219	64,221	67,276	72,692	80,561	91,531
Vermont	13,534	14,046	14,991	16,011	16,816	17,542	18,430	19,510	20,220	20,839
Virginia	177,845	192,097	207,017	221,665	235,541	240,665	254,182	270,732	294,983	311,605
Washington	165,613	180,184	199,586	204,940	205,398	212,642	220,178	230,392	253,843	271,064
West Virginia	32,705	33,720	35,255	35,786	36,815	37,730	38,465	40,953	44,311	47,489

State Indicators

State	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Wisconsin	138,324	146,045	154,677	162,277	168,018	174,062	181,141	191,454	200,868	209,315
Wyoming	12,374	12,505	13,192	14,624	15,894	16,124	17,813	19,854	23,643	28,613
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Private-industry output

State	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
United States	12,572,387	12,716,179	12,352,979	12,826,507	13,348,439	13,957,545	14,468,465	15,115,846	15,698,669	16,177,539
Alabama	141,306	142,965	137,143	142,773	148,181	153,494	158,140	161,397	166,437	170,652
Alaska	40,919	46,889	41,387	44,742	48,851	50,592	49,786	47,890	42,856	40,097
Arizona	228,291	220,965	207,394	208,939	216,784	226,323	231,865	242,091	251,790	262,252
Arkansas	84,525	86,490	84,141	88,416	92,541	94,240	99,255	102,517	103,065	104,843
California	1,709,628	1,724,274	1,651,687	1,700,691	1,764,721	1,857,908	1,945,664	2,057,770	2,186,870	2,284,677
Colorado	216,076	222,854	214,293	219,190	228,268	237,775	251,173	268,173	274,685	283,764
Connecticut	213,430	214,310	209,572	210,094	209,435	214,628	215,582	218,813	229,496	236,275
Delaware	51,356	49,371	51,115	51,200	53,457	54,082	54,566	59,360	62,177	63,473
District of Columbia	61,607	64,217	62,988	65,514	68,369	70,281	72,410	75,958	79,790	83,999
Florida	676,392	652,314	623,370	634,252	641,571	662,438	692,266	728,465	777,049	816,394
Georgia	364,461	357,555	347,858	353,677	364,574	379,083	394,896	417,836	440,120	462,939
Hawaii	51,801	52,462	50,685	52,902	54,023	56,180	58,342	59,906	63,171	66,219
Idaho	46,788	47,817	45,686	47,075	48,595	49,700	52,353	54,671	56,553	58,349
Illinois	581,602	575,434	568,697	580,582	607,066	638,002	647,528	672,180	695,371	715,075
Indiana	244,106	246,022	233,935	253,778	262,873	271,165	282,745	294,483	302,709	310,546
Iowa	122,358	121,676	120,002	124,063	131,125	140,022	143,613	150,267	155,648	158,031
Kansas	105,170	109,821	105,424	109,308	117,172	121,040	123,464	127,134	131,030	132,301
Kentucky	131,988	133,736	131,181	139,146	145,029	149,840	153,888	158,394	164,048	169,252
Louisiana	186,803	194,585	185,440	205,692	208,788	214,241	208,177	216,247	211,936	208,776
Maine	42,331	42,548	42,897	43,832	44,026	45,088	45,778	47,418	49,225	50,958
Maryland	228,739	233,857	237,663	247,315	255,266	262,016	267,854	276,502	289,677	299,709
Massachusetts	336,023	340,418	339,782	355,858	367,400	385,647	392,729	407,896	435,195	454,604
Michigan	354,630	335,734	314,142	334,866	350,459	367,639	380,406	395,830	420,293	435,904

State Indicators

State	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Minnesota	231,718	235,701	228,869	239,871	252,617	262,584	272,989	285,212	294,056	301,207
Mississippi	75,579	80,300	76,320	78,341	79,446	83,643	85,713	86,074	87,249	88,612
Missouri	210,514	218,476	217,455	222,446	223,850	232,528	241,922	247,543	257,470	265,195
Montana	30,417	31,127	30,082	32,163	34,823	35,838	36,834	38,472	39,098	39,016
Nebraska	71,106	73,512	75,406	79,364	86,929	88,760	93,660	98,170	99,115	100,766
Nevada	118,651	114,088	105,578	106,501	109,285	110,271	112,994	116,985	124,913	130,717
New Hampshire	53,933	53,660	54,410	55,687	57,098	58,798	60,309	62,635	65,610	68,996
New Jersey	426,681	435,232	423,894	430,244	435,801	456,466	470,776	480,697	501,440	518,700
New Mexico	62,320	66,973	62,895	65,636	68,424	68,831	69,565	73,266	71,418	70,893
New York	982,936	975,590	1,005,633	1,055,423	1,079,993	1,149,412	1,172,970	1,231,675	1,281,880	1,321,531
North Carolina	342,233	356,040	346,237	352,214	363,458	374,306	390,702	409,063	432,380	449,203
North Dakota	24,774	28,501	27,979	31,255	37,114	47,330	49,928	54,176	50,196	46,204
Ohio	435,345	432,955	418,771	435,337	464,809	485,024	499,515	525,469	539,483	556,523
Oklahoma	122,704	131,912	117,875	123,145	136,701	147,392	158,556	168,637	159,109	153,512
Oregon	151,091	159,809	158,866	168,730	176,671	173,618	173,185	178,898	191,217	200,733
Pennsylvania	499,084	516,096	508,754	529,402	548,379	570,782	591,126	615,345	637,023	652,966
Rhode Island	40,825	40,009	40,546	41,943	42,094	43,395	44,649	46,098	47,846	49,664
South Carolina	134,426	134,852	132,594	136,225	141,556	145,125	151,712	160,484	170,024	177,361
South Dakota	30,798	32,699	31,943	33,082	37,092	37,944	39,617	40,220	41,688	42,563
Tennessee	214,846	217,840	214,152	220,605	229,998	243,595	252,858	262,617	279,724	291,451
Texas	1,054,733	1,111,304	1,026,595	1,096,537	1,196,807	1,284,997	1,380,764	1,453,506	1,443,878	1,444,146
Utah	100,523	99,756	96,511	100,393	106,039	110,063	115,241	121,791	129,694	136,243
Vermont	21,245	21,684	21,688	22,711	23,530	24,030	24,355	24,980	25,819	26,447
Virginia	320,743	323,217	328,902	339,218	345,947	356,561	364,097	371,748	392,066	402,571
Washington	298,095	302,848	295,053	304,693	314,781	331,273	347,150	365,074	384,606	405,632
West Virginia	49,107	52,373	53,104	56,243	59,749	59,410	60,528	62,507	61,772	61,618

State Indicators

State	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Wisconsin	215,816	215,328	214,335	221,362	230,712	239,537	249,170	257,506	267,479	274,383
Wyoming	31,813	37,985	32,050	33,832	36,164	34,604	35,097	35,800	33,228	31,596
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

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.

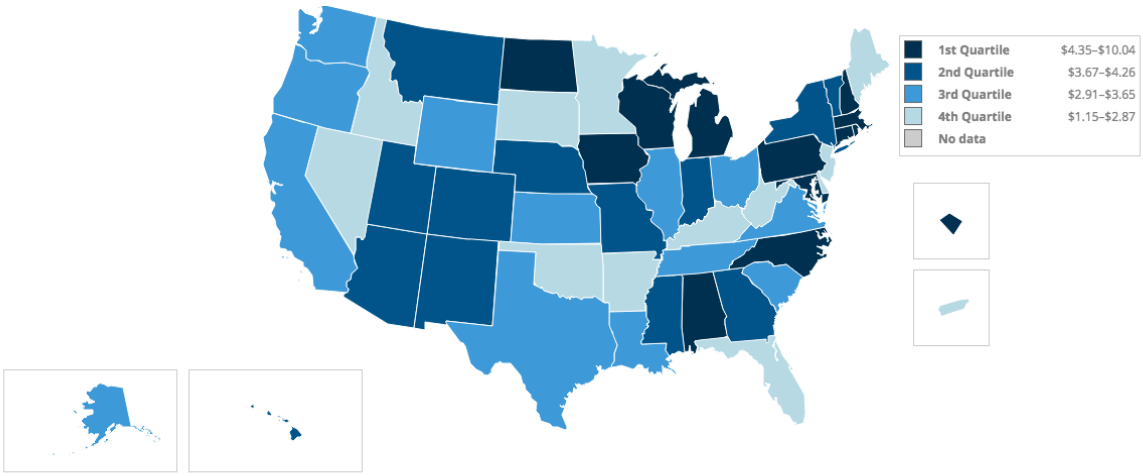
Data on academic R&D are provided by the National Center for Science and Engineering Statistics Higher Education Research and Development Survey and represent R&D at U.S. colleges and universities with over $150,000 in R&D expenditures.

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.

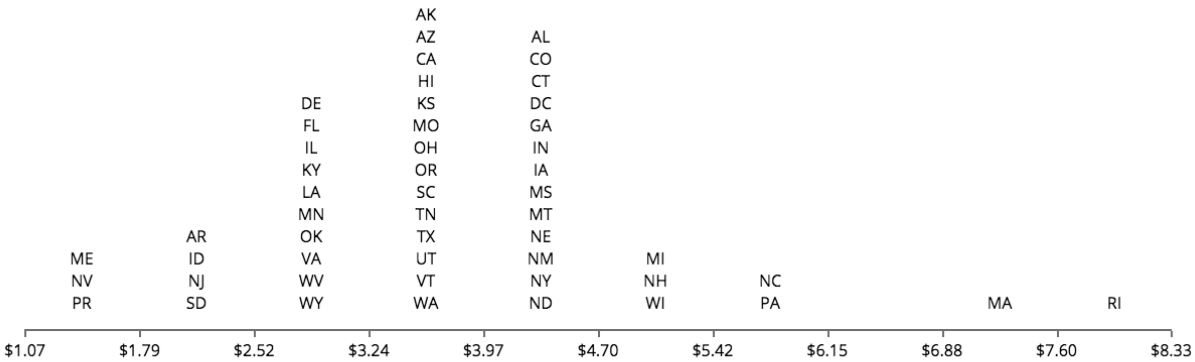
State Indicators

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

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

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

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.

Source(s):
National Science Foundation, National Center for Science and Engineering Statistics, Higher Education Research and Development Survey (various years), data as of August 2017; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

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

(Dollars)

State	2013	2014	2015	2016
United States	4.02	3.87	3.80	3.87
Alabama	4.40	4.18	4.49	4.64
Alaska	3.08	2.99	3.05	3.30
Arizona	3.94	3.73	3.77	3.84
Arkansas	2.57	2.42	2.47	2.47
California	3.76	3.58	3.47	3.42
Colorado	4.37	4.04	4.07	4.26
Connecticut	4.40	4.34	4.26	4.47
Delaware	3.23	2.93	2.78	2.81
District of Columbia	4.69	4.67	4.62	4.38
Florida	2.73	2.73	2.66	2.73
Georgia	4.31	4.09	4.08	4.15
Hawaii	4.61	4.36	4.12	3.79
Idaho	2.36	2.26	2.24	2.30
Illinois	3.47	3.11	3.09	3.03
Indiana	4.29	4.03	3.97	4.12
Iowa	4.40	4.56	4.32	4.55
Kansas	3.80	3.71	3.70	3.65
Kentucky	3.04	2.87	2.78	2.82
Louisiana	2.86	2.75	2.78	2.91
Maine	1.96	2.25	1.80	1.69
Maryland	10.11	10.20	10.22	10.04
Massachusetts	7.99	7.62	7.53	7.48

State Indicators

State	2013	2014	2015	2016
Michigan	5.28	5.04	4.96	5.07
Minnesota	2.96	2.90	2.84	2.87
Mississippi	4.03	3.94	3.86	4.23
Missouri	3.89	3.73	3.67	3.72
Montana	4.30	4.02	3.96	4.24
Nebraska	4.17	4.06	4.10	4.17
Nevada	1.20	1.16	1.12	1.30
New Hampshire	5.17	5.14	4.82	4.88
New Jersey	2.21	2.08	1.96	1.99
New Mexico	4.45	4.35	4.19	4.02
New York	4.15	4.05	3.94	4.09
North Carolina	6.02	5.93	5.63	5.67
North Dakota	3.99	3.72	3.90	4.35
Ohio	3.84	3.65	3.54	3.50
Oklahoma	2.26	2.13	2.23	2.67
Oregon	3.58	3.47	3.32	3.35
Pennsylvania	5.09	4.86	4.74	5.45
Rhode Island	9.18	8.33	8.15	8.06
South Carolina	3.57	3.43	3.30	3.28
South Dakota	2.63	2.31	2.20	2.22
Tennessee	3.58	3.79	3.40	3.32
Texas	3.13	3.03	3.13	3.25
Utah	5.17	4.94	4.92	3.67
Vermont	4.22	3.90	3.95	3.88
Virginia	3.16	3.01	2.93	2.96
Washington	3.85	3.62	3.47	3.50

State Indicators

State	2013	2014	2015	2016
West Virginia	2.73	2.64	2.71	2.71
Wisconsin	5.04	4.85	4.55	4.71
Wyoming	1.60	1.23	1.45	2.96
Puerto Rico	1.32	1.20	1.23	1.15

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.

Source(s):
National Science Foundation, National Center for Science and Engineering Statistics, Higher Education Research and Development Survey (various years), data as of August 2017; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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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
United States	67,013,138	67,196,537	68,566,890	71,833,308
Alabama	837,871	812,803	898,010	949,683
Alaska	184,472	174,431	163,012	167,308
Arizona	1,065,136	1,047,329	1,099,837	1,162,283
Arkansas	294,572	285,691	293,494	298,497
California	8,357,891	8,404,097	8,657,121	8,888,706
Colorado	1,253,466	1,232,376	1,273,753	1,378,920
Connecticut	1,059,367	1,062,741	1,091,381	1,176,170
Delaware	197,262	193,242	191,704	197,615
District of Columbia	524,241	543,149	559,222	555,721
Florida	2,171,626	2,272,556	2,354,871	2,527,456
Georgia	1,956,245	1,950,990	2,046,068	2,179,727
Hawaii	343,802	335,189	332,233	318,134
Idaho	143,728	142,772	146,700	154,989
Illinois	2,501,413	2,327,098	2,382,947	2,400,990
Indiana	1,336,343	1,308,856	1,323,824	1,409,782
Iowa	714,366	773,760	758,796	814,031
Kansas	545,364	547,813	562,254	559,279
Kentucky	550,941	533,834	532,991	556,074
Louisiana	671,580	665,754	662,778	683,125
Maine	104,573	124,688	103,102	100,351
Maryland	3,433,145	3,573,167	3,741,687	3,799,639
Massachusetts	3,532,767	3,500,516	3,673,620	3,797,277
Michigan	2,267,080	2,242,864	2,334,031	2,468,498

State Indicators

State	2013	2014	2015	2016
Minnesota	901,404	919,257	928,999	961,040
Mississippi	416,772	410,543	408,232	454,983
Missouri	1,074,632	1,050,665	1,074,115	1,119,296
Montana	185,996	181,127	181,680	195,125
Nebraska	444,917	454,744	464,664	481,383
Nevada	153,427	153,571	157,528	191,155
New Hampshire	354,296	365,537	357,665	379,991
New Jersey	1,173,474	1,130,474	1,106,186	1,157,605
New Mexico	403,776	412,428	390,913	375,368
New York	5,519,542	5,638,584	5,700,230	6,089,673
North Carolina	2,739,920	2,814,943	2,814,924	2,937,671
North Dakota	219,115	222,032	217,926	226,572
Ohio	2,168,267	2,158,565	2,152,796	2,193,019
Oklahoma	420,067	419,653	419,602	488,559
Oregon	704,764	705,688	719,881	759,243
Pennsylvania	3,361,374	3,328,851	3,356,723	3,950,530
Rhode Island	479,162	447,469	453,291	462,777
South Carolina	648,137	655,757	665,319	687,110
South Dakota	117,361	104,962	103,368	106,941
Tennessee	1,032,124	1,133,373	1,077,068	1,091,835
Texas	4,813,050	4,898,443	5,036,366	5,256,599
Utah	688,972	693,796	733,407	573,106
Vermont	121,110	114,549	119,663	120,650
Virginia	1,419,504	1,381,078	1,411,176	1,462,939
Washington	1,561,573	1,537,190	1,548,580	1,645,843
West Virginia	196,492	195,675	199,167	199,164

State Indicators

State	2013	2014	2015	2016
Wisconsin	1,419,426	1,409,714	1,372,168	1,458,791
Wyoming	65,490	51,422	56,996	112,056
Puerto Rico	135,659	123,285	126,792	120,619
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
United States	14,958,151	15,506,355	16,142,806	16,679,187	17,379,962	18,028,287	18,561,329
Alabama	174,710	180,665	185,878	190,319	194,404	199,980	204,861
Alaska	54,134	58,759	60,890	59,808	58,267	53,384	50,713
Arizona	245,668	254,192	264,693	270,469	280,790	291,448	302,952
Arkansas	102,951	107,287	109,226	114,456	117,922	118,677	120,689
California	1,965,886	2,036,297	2,131,199	2,223,892	2,349,338	2,491,619	2,602,672
Colorado	253,374	262,719	272,799	286,835	305,309	313,329	323,692
Connecticut	234,528	234,233	239,462	240,975	244,784	256,306	263,379
Delaware	57,471	59,937	60,628	61,109	65,888	68,864	70,387
District of Columbia	103,831	107,738	109,685	111,890	116,309	121,119	126,815
Florida	735,098	741,455	764,136	794,644	832,340	883,861	926,817
Georgia	412,485	424,126	439,058	454,238	477,522	501,522	525,360
Hawaii	68,225	70,017	72,532	74,630	76,835	80,599	83,917
Idaho	55,258	56,744	58,105	60,854	63,272	65,460	67,275
Illinois	653,476	679,776	711,370	721,876	747,641	772,182	791,608
Indiana	282,259	291,570	299,996	311,150	324,425	333,363	341,909
Iowa	141,697	148,843	158,246	162,305	169,843	175,809	178,766
Kansas	128,542	136,884	140,964	143,471	147,585	151,845	153,258
Kentucky	165,974	171,835	177,046	181,135	185,748	191,897	197,043
Louisiana	232,596	236,248	241,378	234,608	242,102	238,075	235,109
Maine	51,456	51,490	52,580	53,348	55,325	57,332	59,275
Maryland	313,952	324,830	332,500	339,443	350,430	366,242	378,280
Massachusetts	402,652	417,283	434,098	442,090	459,118	488,100	507,913
Michigan	385,021	399,437	416,701	429,644	445,209	470,611	487,239

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	269,937	282,397	292,920	304,063	316,973	326,833	335,147
Mississippi	95,810	96,968	101,351	103,523	104,284	105,871	107,680
Missouri	255,865	257,225	266,245	275,911	282,034	292,718	300,891
Montana	38,375	41,187	42,349	43,229	45,058	45,845	45,994
Nebraska	92,231	99,935	101,973	106,765	112,087	113,458	115,345
Nevada	121,713	124,445	125,440	128,205	132,653	141,070	147,475
New Hampshire	64,159	65,214	66,948	68,558	71,100	74,269	77,855
New Jersey	489,130	493,343	514,662	531,072	542,549	564,360	581,122
New Mexico	86,079	89,261	90,146	90,834	94,707	93,230	93,297
New York	1,204,688	1,229,743	1,301,041	1,330,236	1,391,086	1,445,611	1,487,998
North Carolina	416,008	427,974	438,350	454,945	474,482	499,741	517,904
North Dakota	36,202	42,164	52,493	54,965	59,627	55,927	52,089
Ohio	498,989	528,567	550,299	564,683	591,485	607,326	625,715
Oklahoma	149,913	163,868	174,305	186,007	196,767	188,011	182,937
Oregon	191,120	199,929	196,973	196,594	203,326	216,522	226,821
Pennsylvania	596,662	615,411	637,896	659,792	684,781	708,402	724,936
Rhode Island	49,351	49,716	50,997	52,187	53,725	55,650	57,433
South Carolina	164,106	170,193	174,567	181,556	191,168	201,831	209,716
South Dakota	38,176	42,253	43,056	44,560	45,470	47,073	48,139
Tennessee	252,478	263,175	278,298	288,012	298,865	316,659	328,770
Texas	1,243,398	1,344,733	1,437,893	1,536,472	1,614,127	1,611,189	1,616,801
Utah	117,714	124,031	128,018	133,274	140,500	149,099	156,352
Vermont	26,633	27,676	28,195	28,690	29,360	30,300	31,092
Virginia	420,862	429,174	441,144	449,235	459,068	481,721	494,349
Washington	359,694	370,149	388,922	405,561	425,105	446,417	469,739
West Virginia	67,255	70,945	70,969	72,082	74,002	73,384	73,374

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	252,875	262,463	272,420	281,569	290,889	301,587	309,536
Wyoming	39,103	41,499	40,201	40,968	41,832	39,415	37,858
Puerto Rico	98,381	100,352	101,565	102,450	102,446	103,144	105,035

Science and Engineering Indicators 2018

State Indicators

S-47 Science, Engineering, and Health Doctorates Conferred per 1,000 Employed Science, Engineering, and Health Doctorate Holders

Description

This indicator represents the rate at which the states are training new science, engineering, and health (SEH) doctorate recipients for entry into the workforce. High values indicate relatively large production of new doctorate holders compared with the existing stock of employed doctorate holders. States with relatively low values may need to attract SEH doctorate holders from elsewhere to meet the needs of local employers.

Data on doctorates conferred and employed doctorate holders include those with doctoral degrees in computer and mathematical sciences; the biological, agricultural, or environmental life sciences; physical sciences; social sciences; psychology; and engineering; and health fields. Both sets of data exclude individuals with doctorates from foreign institutions as well as those older than 75. Data for doctorates conferred are presented by the location where the doctorate was earned; employment data for doctorate holders are presented by employment location regardless of residence. Estimates for states with smaller populations of employed doctorate holders are generally less precise than estimates for states with larger populations.

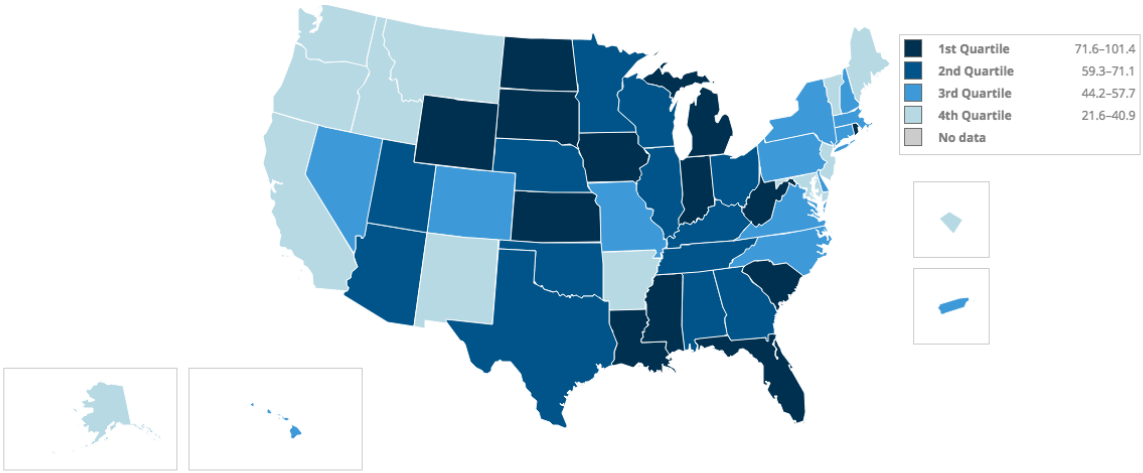
The indicator does not take into account any post-graduation mobility of recent SEH doctorate recipients to their place of employment. Doctorate recipients with temporary visas may decide to return home after graduation to begin their careers. The indicator also does not cover individuals with non-U.S. SEH doctorates who are working in the United States.

Data sources: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates; National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients.

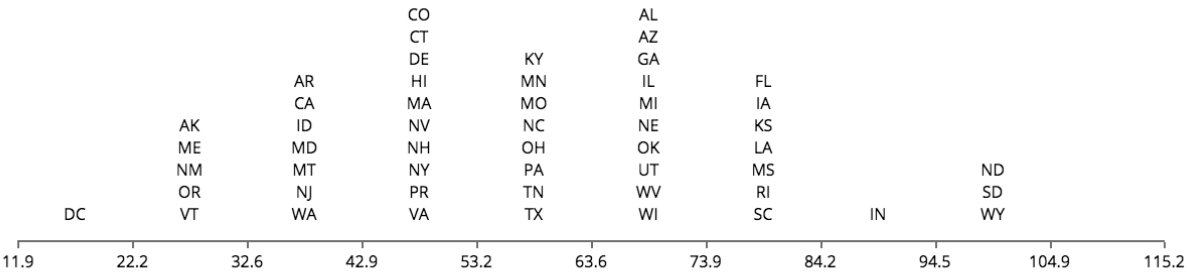
State Indicators

S-47 Science, Engineering, and Health Doctorates Conferred per 1,000 Employed Science, Engineering, and Health Doctorate Holders

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

Science, Engineering, and Health Doctorates Conferred per 1,000 Employed Science, Engineering, and Health Doctorate Holders

(Degrees)

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
United States	55.2	49.2	47.0	45.2	51.0	53.6	50.8	54.5	52.8
Alabama	54.8	55.5	61.7	62.5	63.9	69.3	61.8	70.8	70.3
Alaska	18.0	19.2	21.7	31.6	18.9	21.7	30.0	32.1	24.2
Arizona	77.9	70.8	59.1	62.0	62.7	65.9	67.0	62.3	68.8
Arkansas	30.2	22.2	27.0	34.1	41.2	52.1	48.6	61.8	40.9
California	50.8	44.3	42.5	40.8	47.4	48.1	44.4	46.9	40.4
Colorado	55.0	51.1	44.0	46.1	38.6	44.5	38.9	45.3	47.4
Connecticut	46.6	38.8	40.9	41.4	44.6	48.6	45.7	50.3	50.6
Delaware	35.3	32.7	36.2	34.7	48.2	40.0	54.7	47.1	48.3
District of Columbia	28.0	22.5	21.1	23.9	25.5	25.5	21.6	23.4	21.6
Florida	63.9	60.1	53.6	55.3	64.8	74.1	72.9	71.8	78.2
Georgia	58.7	56.9	53.9	52.5	64.1	70.2	61.0	62.8	66.2
Hawaii	52.5	51.2	43.0	31.9	35.8	43.8	45.7	47.6	47.5
Idaho	29.6	22.0	24.2	29.4	23.9	30.7	22.9	31.4	33.6
Illinois	68.1	61.7	62.8	59.0	64.1	66.4	64.0	73.0	64.2
Indiana	96.0	80.0	73.0	70.9	81.1	84.8	84.5	91.5	93.5
Iowa	106.1	92.4	92.3	70.2	88.8	95.4	89.1	98.8	79.1
Kansas	78.5	74.4	72.0	69.7	67.5	66.0	73.5	80.9	82.2
Kentucky	54.3	42.4	39.9	41.7	55.4	63.1	56.1	56.9	62.6
Louisiana	67.5	64.0	69.2	59.2	64.8	73.7	83.8	96.2	78.6
Maine	19.1	12.6	15.6	17.5	11.9	19.1	16.7	16.5	23.5
Maryland	37.4	35.4	34.2	29.6	37.4	37.2	34.0	34.6	34.9
Massachusetts	67.5	57.9	53.3	48.2	56.1	57.8	52.2	55.1	48.3

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Michigan	68.3	61.1	55.4	59.0	63.0	71.2	68.9	72.6	71.7
Minnesota	53.9	41.9	44.5	43.3	50.3	46.4	50.8	64.8	62.3
Mississippi	52.0	54.5	45.1	50.0	58.0	54.5	71.2	73.2	81.5
Missouri	52.3	43.5	50.1	51.2	58.4	59.6	50.9	55.7	56.9
Montana	34.9	38.7	29.2	29.3	33.2	36.2	31.3	33.0	40.4
Nebraska	64.1	68.7	58.8	68.8	53.2	67.1	67.1	89.3	66.3
Nevada	30.2	31.4	26.6	36.7	38.2	36.1	45.3	56.2	51.3
New Hampshire	42.6	34.3	32.0	39.0	40.5	41.7	42.3	49.3	46.3
New Jersey	30.8	25.8	27.7	28.1	32.7	33.7	30.8	33.7	38.6
New Mexico	22.1	22.5	19.9	20.3	23.6	22.6	26.1	29.1	31.6
New York	60.4	53.7	50.2	49.5	56.9	58.1	53.4	55.8	52.1
North Carolina	56.5	52.2	46.0	44.6	51.2	52.6	56.9	60.6	57.7
North Dakota	38.5	39.2	39.8	58.4	39.9	74.6	56.0	64.0	98.5
Ohio	69.2	50.6	56.7	51.0	62.2	67.1	62.5	60.1	59.4
Oklahoma	53.5	50.1	55.0	43.1	50.9	52.2	63.3	70.2	70.4
Oregon	51.0	45.0	38.6	34.7	40.6	34.0	36.5	37.4	27.0
Pennsylvania	60.4	53.5	51.1	46.5	54.1	56.7	54.3	58.1	57.0
Rhode Island	67.3	68.5	63.3	47.0	75.5	73.6	77.3	79.7	81.0
South Carolina	52.5	57.4	48.7	41.5	46.4	51.6	46.4	55.8	75.1
South Dakota	34.9	31.0	34.0	32.4	35.2	27.7	39.2	71.0	97.1
Tennessee	49.6	46.9	44.7	42.5	44.5	51.7	43.8	47.0	59.3
Texas	61.1	56.2	53.2	49.8	57.4	58.8	55.1	61.4	61.1
Utah	61.7	61.1	53.9	59.4	46.2	60.2	57.8	62.2	67.6
Vermont	20.0	19.4	29.7	16.4	29.0	28.3	31.7	38.9	27.1
Virginia	45.8	39.9	37.8	35.4	39.2	39.1	39.6	48.6	44.2
Washington	38.5	37.3	33.7	31.0	34.9	35.3	34.4	36.8	34.9

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
West Virginia	41.4	38.0	36.0	53.5	63.0	68.5	60.9	58.3	71.6
Wisconsin	83.7	73.5	63.8	67.9	63.1	73.3	65.3	63.5	71.1
Wyoming	76.7	73.3	45.2	66.2	53.4	71.4	55.0	50.0	101.4
Puerto Rico	127.3	115.2	65.2	46.2	50.3	72.5	23.9	47.6	50.0

Note(s):
SEH doctorates conferred are classified by the location where the doctorate was earned. The national doctorate total for the United States includes U.S. territories; Employed SEH doctorate holders are classified by employment location.

Source(s):
National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates (various years), data as of January 2018; National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients (various years), data as of August 2017.

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Last updated: June 7, 2018

Science and Engineering Indicators 2018

State Indicators

SEH doctorates conferred

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
United States	23,737	24,954	25,677	26,524	27,365	27,739	28,463	28,556	28,670	27,223
Alabama	216	236	255	265	296	281	343	362	383	319
Alaska	8	10	13	10	24	19	28	20	32	23
Arizona	346	452	403	423	477	465	471	489	495	460
Arkansas	73	59	56	61	83	74	69	70	83	60
California	3,119	3,340	3,352	3,565	3,646	3,753	3,495	3,578	3,501	3,415
Colorado	457	485	484	518	529	542	572	591	544	575
Connecticut	375	391	379	411	431	427	406	409	453	380
Delaware	97	101	126	123	97	100	137	131	112	121
District of Columbia	311	270	277	338	301	288	310	330	304	312
Florida	583	586	620	633	706	699	782	852	997	880
Georgia	407	466	518	484	469	518	617	580	645	629
Hawaii	102	119	120	133	136	130	139	134	135	128
Idaho	61	44	56	48	66	57	57	60	54	45
Illinois	1,363	1,421	1,477	1,451	1,422	1,490	1,545	1,447	1,541	1,375
Indiana	655	641	693	721	718	723	773	727	723	704
Iowa	379	425	434	457	449	465	486	437	463	402
Kansas	231	226	298	246	260	273	295	296	300	264
Kentucky	141	151	186	173	198	200	208	223	208	176
Louisiana	262	282	272	270	281	331	319	362	355	349
Maine	27	28	37	30	39	28	36	41	34	27
Maryland	595	618	679	715	682	681	767	786	765	791
Massachusetts	1,395	1,473	1,522	1,546	1,591	1,513	1,633	1,574	1,616	1,579
Michigan	863	924	1,022	989	1,023	1,073	1,110	1,028	1,094	1,015

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Minnesota	456	550	512	485	562	533	560	529	519	478
Mississippi	132	147	149	128	143	179	158	156	163	169
Missouri	405	392	450	388	449	414	458	496	500	409
Montana	47	43	43	46	40	47	48	59	68	58
Nebraska	133	105	125	135	152	146	177	193	198	182
Nevada	26	31	32	24	34	54	47	49	69	58
New Hampshire	66	66	63	99	98	87	83	95	97	79
New Jersey	508	499	573	555	595	630	662	630	560	560
New Mexico	158	158	156	178	171	182	201	165	207	172
New York	2,432	2,439	2,444	2,594	2,619	2,528	2,610	2,421	2,461	2,293
North Carolina	656	642	661	706	697	735	761	776	795	820
North Dakota	55	43	55	54	52	54	54	52	60	49
Ohio	933	1,006	1,030	1,042	1,148	1,119	1,157	1,294	1,204	1,023
Oklahoma	247	202	223	219	230	233	255	245	229	208
Oregon	265	260	297	321	333	325	318	317	307	299
Pennsylvania	1,157	1,282	1,325	1,363	1,367	1,432	1,385	1,447	1,433	1,357
Rhode Island	156	212	192	217	202	192	195	165	187	178
South Carolina	186	217	220	240	238	221	275	251	236	270
South Dakota	21	26	21	20	29	17	25	37	24	31
Tennessee	288	324	352	350	349	350	365	423	356	380
Texas	1,426	1,482	1,487	1,595	1,708	1,814	1,817	1,746	1,775	1,755
Utah	255	256	280	283	255	288	315	296	276	278
Vermont	47	41	30	47	50	44	47	35	48	34
Virginia	501	553	553	665	616	679	649	698	640	662
Washington	426	484	406	444	478	497	482	514	481	494
West Virginia	63	65	70	67	67	80	69	82	110	78

State Indicators

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wisconsin	553	606	573	585	674	639	600	708	677	621
Wyoming	44	50	39	38	51	50	53	66	54	55
Puerto Rico	29	25	37	26	34	40	39	84	99	144

Science and Engineering Indicators 2018

State Indicators

SEH doctorates conferred

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
United States	27,456	26,976	26,162	26,792	27,876	29,665	31,679	33,867	34,813	35,427
Alabama	342	329	347	358	325	378	377	384	416	447
Alaska	19	26	19	36	18	25	21	29	26	33
Arizona	462	418	424	465	499	494	527	587	580	668
Arkansas	73	69	80	95	98	125	117	106	125	146
California	3,404	3,439	3,295	3,527	3,623	3,729	4,139	4,468	4,600	4,572
Colorado	527	518	482	563	489	553	508	622	583	611
Connecticut	427	388	368	405	423	444	461	527	515	477
Delaware	120	128	102	104	143	129	150	151	132	171
District of Columbia	353	300	291	330	303	343	340	334	334	377
Florida	851	844	835	885	1,059	1,038	1,143	1,320	1,378	1,331
Georgia	606	646	676	642	683	780	831	925	948	1,013
Hawaii	119	111	77	97	102	101	102	105	140	127
Idaho	61	54	52	72	59	58	68	81	86	72
Illinois	1,416	1,389	1,271	1,321	1,259	1,401	1,546	1,596	1,606	1,626
Indiana	749	699	617	680	659	716	800	845	873	942
Iowa	386	405	396	327	363	388	434	472	496	484
Kansas	268	286	287	283	273	261	287	295	284	295
Kentucky	225	183	201	197	226	261	275	298	303	279
Louisiana	392	366	324	321	355	379	355	402	383	368
Maine	41	31	31	37	31	25	28	40	44	45
Maryland	753	777	765	749	793	884	978	984	1,046	972
Massachusetts	1,533	1,551	1,555	1,457	1,575	1,706	1,819	2,016	2,022	2,048
Michigan	1,065	962	1,020	1,011	1,078	1,142	1,128	1,251	1,189	1,310

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Minnesota	520	508	454	481	483	568	593	651	585	608
Mississippi	170	143	143	156	175	182	192	204	180	192
Missouri	470	465	446	465	462	504	543	526	596	553
Montana	42	42	57	51	60	60	66	67	76	84
Nebraska	181	170	161	194	161	181	158	191	188	190
Nevada	81	54	64	76	77	91	100	81	101	144
New Hampshire	73	79	82	103	92	119	100	122	121	126
New Jersey	611	630	535	589	629	629	680	701	717	755
New Mexico	157	154	181	165	197	179	196	195	176	210
New York	2,313	2,208	2,232	2,220	2,407	2,508	2,608	2,672	2,845	2,744
North Carolina	782	771	760	776	852	926	968	1,012	1,058	1,098
North Dakota	42	43	46	66	46	47	55	82	97	80
Ohio	1,153	1,137	1,068	1,064	1,084	1,117	1,277	1,226	1,396	1,338
Oklahoma	245	240	209	200	228	244	225	270	235	294
Oregon	277	272	249	272	292	278	336	331	296	349
Pennsylvania	1,358	1,335	1,324	1,294	1,390	1,498	1,576	1,610	1,701	1,780
Rhode Island	174	167	169	149	172	181	228	204	206	205
South Carolina	252	250	277	216	251	272	274	322	325	326
South Dakota	30	34	36	33	39	38	37	42	36	51
Tennessee	399	401	384	376	399	409	444	489	522	553
Texas	1,675	1,730	1,587	1,658	1,709	1,906	2,065	2,257	2,345	2,350
Utah	286	260	283	252	257	304	255	324	337	369
Vermont	39	52	49	29	34	37	49	45	51	43
Virginia	674	660	639	669	686	719	779	796	832	896
Washington	442	498	492	478	528	540	590	653	624	635
West Virginia	95	68	86	106	116	115	126	110	137	109

State Indicators

State	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Wisconsin	585	556	539	570	533	566	601	690	726	737
Wyoming	54	38	35	43	31	36	39	58	50	55
Puerto Rico	84	92	60	79	50	51	85	98	145	139

Science and Engineering Indicators 2018

State Indicators

SEH doctorates conferred

State	2010	2011	2012	2013	2014	2015	2016
United States	35,104	36,466	37,974	39,157	40,821	41,390	41,556
Alabama	408	419	485	467	492	517	515
Alaska	42	38	48	45	45	40	46
Arizona	603	601	622	617	653	698	651
Arkansas	141	145	148	173	161	176	190
California	4,541	4,671	4,824	4,999	5,021	4,856	4,981
Colorado	575	595	634	688	757	794	824
Connecticut	516	497	531	543	569	592	577
Delaware	164	189	189	160	174	203	258
District of Columbia	322	363	369	349	386	371	400
Florida	1,501	1,578	1,556	1,593	1,692	1,736	1,707
Georgia	927	940	999	992	1,136	1,122	1,094
Hawaii	137	154	134	162	132	164	144
Idaho	64	64	64	91	103	84	81
Illinois	1,620	1,645	1,720	1,818	1,768	1,801	1,754
Indiana	921	951	924	1,043	1,091	1,141	1,095
Iowa	499	530	564	553	553	506	522
Kansas	294	339	338	364	356	419	382
Kentucky	286	276	351	307	356	335	330
Louisiana	444	365	472	500	457	448	482
Maine	40	43	54	43	62	61	54
Maryland	1,014	984	1,042	1,128	1,074	1,195	1,089
Massachusetts	1,928	2,000	2,138	2,167	2,243	2,212	2,372
Michigan	1,241	1,255	1,384	1,358	1,454	1,495	1,411

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	696	768	825	913	1,009	953	1,071
Mississippi	235	254	222	249	258	273	254
Missouri	545	566	608	618	651	688	666
Montana	75	80	65	76	86	97	101
Nebraska	208	222	203	259	260	275	311
Nevada	136	138	127	146	141	154	154
New Hampshire	127	126	123	143	158	148	147
New Jersey	709	787	733	776	823	856	796
New Mexico	209	191	217	239	234	251	228
New York	2,718	2,893	2,914	2,989	3,138	3,029	3,076
North Carolina	1,173	1,129	1,214	1,315	1,327	1,359	1,415
North Dakota	84	84	108	96	123	133	139
Ohio	1,356	1,340	1,317	1,328	1,430	1,444	1,526
Oklahoma	310	270	315	330	357	352	361
Oregon	332	345	375	374	345	380	368
Pennsylvania	1,699	1,891	1,822	1,858	1,895	2,011	2,060
Rhode Island	232	225	248	239	267	243	251
South Carolina	297	331	386	357	416	458	415
South Dakota	51	59	66	71	93	102	103
Tennessee	504	539	573	574	622	652	645
Texas	2,336	2,339	2,663	2,681	2,937	3,020	2,935
Utah	341	408	398	404	403	460	429
Vermont	57	39	57	70	62	65	66
Virginia	871	1,020	1,071	1,123	1,131	1,074	1,089
Washington	650	683	629	750	742	753	747
West Virginia	134	142	142	134	135	154	177

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	692	704	741	711	818	814	817
Wyoming	44	49	54	55	90	71	64
Puerto Rico	55	202	168	119	135	155	186
Science and Engineering Indicators 2018							

State Indicators

Employed SEH doctorate holders

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
United States	517,780	552,950	574,300	592,840	620,700	649,800	690,800	718,100	783,850
Alabama	6,610	5,750	5,330	5,730	5,900	6,000	6,600	6,600	7,350
Alaska	1,110	1,200	1,200	1,140	1,110	1,200	1,400	1,400	1,650
Arizona	6,280	6,500	7,070	7,500	8,410	8,800	9,000	9,900	10,150
Arkansas	2,320	2,700	2,560	2,790	2,840	2,400	2,900	2,800	4,300
California	70,490	77,100	80,870	86,550	87,370	95,700	102,300	106,600	120,200
Colorado	10,740	11,250	11,780	12,220	13,150	13,100	14,800	15,200	16,750
Connecticut	8,770	9,800	9,490	9,780	10,330	10,600	11,300	10,800	11,700
Delaware	3,710	3,700	3,540	3,000	3,110	3,300	3,000	3,400	4,200
District of Columbia	11,800	13,850	14,200	13,800	13,330	13,100	14,900	14,900	17,200
Florida	13,330	14,650	15,740	16,000	17,630	18,600	20,600	22,200	22,200
Georgia	9,880	11,050	11,990	12,220	12,970	13,500	15,200	15,800	16,950
Hawaii	2,550	2,500	2,580	3,040	2,850	3,200	3,000	3,400	3,450
Idaho	2,030	2,050	2,230	2,450	2,840	2,800	2,800	2,900	2,500
Illinois	21,260	22,300	22,110	22,400	24,110	24,200	25,300	24,900	28,050
Indiana	7,570	8,800	9,580	9,590	9,870	10,300	10,900	11,400	12,200
Iowa	4,120	4,350	4,390	4,660	4,890	5,200	5,600	5,600	6,400
Kansas	3,770	3,550	3,970	4,060	4,250	4,300	4,000	4,500	5,100
Kentucky	4,110	4,150	4,590	4,720	4,960	4,800	5,100	5,400	5,350
Louisiana	5,360	5,450	5,290	5,420	5,480	5,200	5,300	5,200	5,700
Maine	2,150	2,150	1,990	2,110	2,350	2,300	2,400	2,600	2,600
Maryland	21,020	22,350	22,730	25,280	26,160	28,100	29,800	32,600	34,250
Massachusetts	23,330	27,250	29,100	30,220	32,400	35,000	36,900	39,300	45,750
Michigan	15,050	16,600	17,380	17,130	17,900	16,700	18,000	18,700	20,850

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Minnesota	9,810	11,400	11,410	11,110	11,800	12,600	13,700	14,100	15,300
Mississippi	3,000	3,100	3,170	3,120	3,310	3,300	3,300	3,400	3,350
Missouri	9,490	9,400	9,280	9,080	9,300	10,000	10,700	11,100	12,100
Montana	1,690	1,500	1,440	1,740	1,990	2,100	2,400	2,300	2,400
Nebraska	3,010	2,650	2,890	2,820	2,970	2,800	3,100	2,900	4,150
Nevada	1,620	1,850	2,030	2,070	2,620	2,800	3,000	2,600	3,000
New Hampshire	2,230	2,300	2,470	2,640	2,470	2,900	3,000	2,900	3,200
New Jersey	20,440	21,700	22,740	20,980	20,810	21,300	23,000	23,000	22,200
New Mexico	7,480	7,650	7,750	8,120	8,300	7,800	8,000	8,200	7,950
New York	40,080	42,700	43,980	44,890	45,850	49,000	50,900	53,600	58,150
North Carolina	13,730	15,700	16,760	17,380	18,910	20,100	20,600	21,700	23,550
North Dakota	1,350	1,250	1,080	1,130	1,380	1,300	1,500	1,500	1,350
Ohio	18,700	20,200	20,070	20,870	20,540	20,800	21,700	22,100	24,300
Oklahoma	4,580	4,150	4,360	4,640	4,420	4,500	4,900	4,700	5,000
Oregon	6,210	6,650	7,040	7,830	8,270	8,700	9,100	10,000	14,050
Pennsylvania	23,940	25,350	26,140	27,820	29,120	30,000	31,300	32,000	35,300
Rhode Island	2,450	2,600	2,640	3,170	3,020	2,800	3,000	3,000	3,000
South Carolina	4,780	4,700	5,130	5,210	5,910	6,300	6,400	6,400	6,100
South Dakota	1,060	1,000	1,000	1,020	1,050	1,300	1,300	1,000	1,050
Tennessee	8,520	8,100	8,980	8,840	9,980	10,100	11,500	12,200	11,000
Texas	28,570	31,250	32,490	33,280	36,000	39,900	42,400	43,700	49,400
Utah	4,800	4,550	4,820	4,240	5,520	5,600	5,900	6,500	6,800
Vermont	1,750	1,750	1,750	1,770	1,690	1,800	1,800	1,800	2,400
Virginia	15,250	16,600	17,460	18,880	19,850	21,300	22,000	23,100	24,300
Washington	13,360	13,250	14,760	15,430	16,920	17,700	18,900	20,400	21,600
West Virginia	1,980	2,050	1,890	1,980	2,000	2,000	2,200	2,300	2,150

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Wisconsin	8,460	8,450	8,720	8,390	9,530	9,900	10,600	11,200	11,450
Wyoming	860	750	840	650	730	700	800	1,100	700
Puerto Rico	660	1,250	1,410	1,710	1,690	2,000	2,300	2,500	3,100

Science and Engineering Indicators 2018

State Indicators

S-48 Academic Science and Engineering Article Output per 1,000 Science, Engineering, and Health Doctorate Holders in Academia

Description

The volume of peer-reviewed articles published per 1,000 academic science, engineering, and health (SEH) doctorate holders is an approximate measure of their contribution to scientific knowledge. This indicator should not be seen as a measure of an individual's efficiency; publications are only one measure of academic productivity; other measures may include personnel trained, patents, trademarks, copyrights, and other outputs. A high value on this indicator shows that the SEH faculties in a state's academic institutions are generating a high volume of publications relative to the number of SEH doctorate holders employed at academic institutions in the state. Academic institutions include 2-year colleges, 4-year colleges and universities, medical schools, and university-affiliated research centers. Research is more central to the mission of some of these institutions than others.

Publication counts are based on the number of articles that appear in a set of journals tracked by Elsevier's Scopus database as of December 2016. The journal set consists of S&E publications (including publications on the natural sciences, applied sciences, medical sciences, and social sciences but excluding the arts and humanities). Only documents published in refereed scientific journals were counted (mostly articles, reviews, and conference proceedings), as these documents were reviewed by peers prior to being accepted for publication. The peer-review process is designed to ensure that the research is of good quality and constitutes an original contribution to scientific knowledge. Fractional counting at the level of researchers is used to ensure that a single paper is not counted several times. For example, if two of three authors are in state A and the third author is in state B, then two-thirds of the publication is attributed to state A, and one-third is attributed to state B.

SEH doctorates include those in computer sciences; mathematics; biological, agricultural, or environmental life sciences; physical sciences; social sciences; psychology; engineering; and health fields. SEH doctorate data are estimates and exclude those with doctorates from foreign institutions and those older than 75. Data for SEH doctorate holders in academia are presented by employment location, regardless of residence. Estimates for states with smaller populations of SEH doctorate holders are generally less precise than estimates for states with larger populations.

Nationally, both S&E article output and employment of SEH doctorate holders in academia have experienced long-term increases. However, the growth in article output has outpaced that of employment, meaning that this indicator has risen over time for most states and the nation overall.

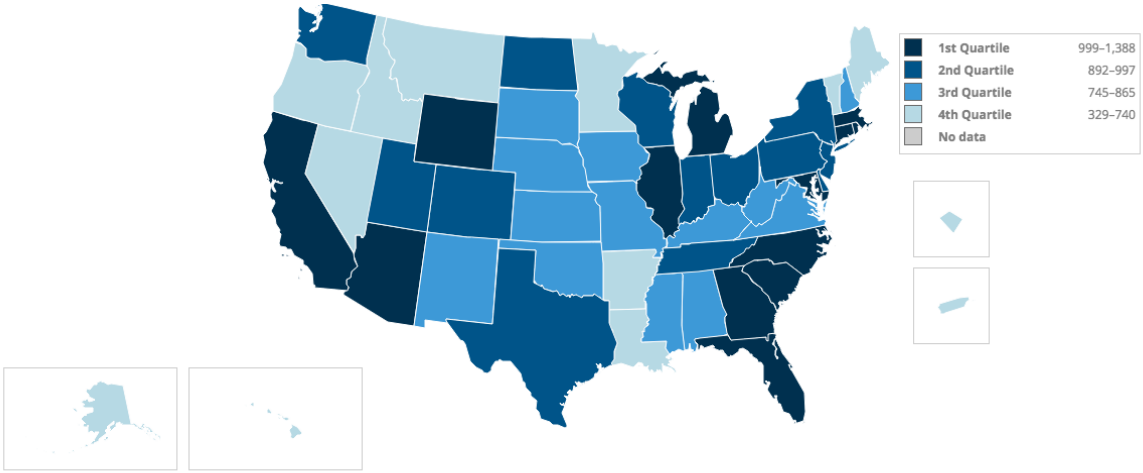
Data on employed SEH doctorate holders are collected by the Survey of Doctorate Recipients. Data include those with research doctoral degrees in computer and mathematical sciences; biological, agricultural, or environmental life sciences; physical sciences; social sciences; psychology; engineering; and health fields. SEH doctorate data exclude individuals with doctorates from foreign institutions and those older than 75. SEH doctorate holders are assigned to a state based on where they work.

Data sources: Science-Metrix, special tabulation from Scopus; National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients.

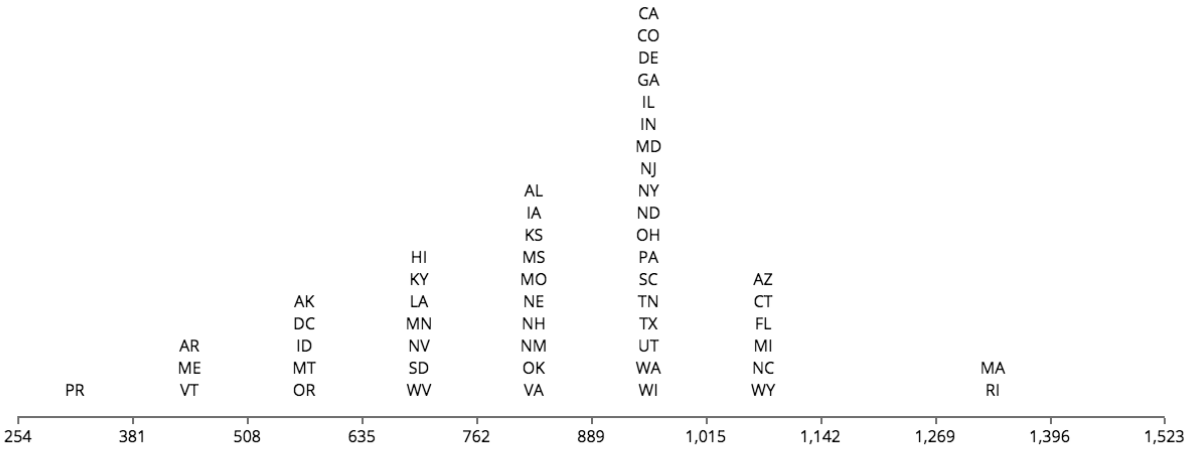
State Indicators

S-48 Academic Science and Engineering Article Output per 1,000 Science, Engineering, and Health Doctorate Holders in Academia

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

Academic Science and Engineering Article Output per 1,000 Science, Engineering, and Health Doctorate Holders in Academia

(Articles)

State	2003	2006	2008	2010	2013	2015
United States	838	970	1,017	991	1,022	957
Alabama	858	998	1,033	953	996	785
Alaska	447	559	564	569	561	511
Arizona	1,035	1,095	1,138	1,212	1,048	1,136
Arkansas	519	610	835	637	748	474
California	968	1,182	1,154	1,121	1,105	1,004
Colorado	729	858	938	870	948	901
Connecticut	922	1,053	989	979	1,101	1,085
Delaware	1,162	1,210	1,381	1,152	1,171	892
District of Columbia	781	906	1,056	996	916	620
Florida	867	1,055	1,087	984	927	1,070
Georgia	815	931	951	953	1,008	999
Hawaii	469	650	642	699	646	686
Idaho	416	480	488	532	531	627
Illinois	974	1,080	1,150	1,103	1,201	1,001
Indiana	819	993	1,096	1,023	1,038	977
Iowa	858	953	878	876	946	836
Kansas	770	782	755	941	958	787
Kentucky	629	695	785	758	811	745
Louisiana	702	763	873	956	914	740
Maine	408	439	440	535	462	398
Maryland	1,057	1,181	1,125	1,143	1,184	1,008
Massachusetts	1,076	1,328	1,523	1,475	1,485	1,388

State Indicators

State	2003	2006	2008	2010	2013	2015
Michigan	872	994	1,106	1,026	1,084	1,043
Minnesota	625	717	803	748	769	704
Mississippi	568	783	846	857	849	802
Missouri	776	917	975	897	880	865
Montana	453	539	524	482	502	528
Nebraska	760	957	984	864	1,058	853
Nevada	580	596	756	722	715	717
New Hampshire	759	947	735	741	791	776
New Jersey	848	926	937	909	912	905
New Mexico	426	725	686	666	693	770
New York	882	1,035	1,045	1,022	1,078	995
North Carolina	801	918	961	988	1,054	1,026
North Dakota	615	655	789	662	825	988
Ohio	765	942	1,020	985	1,028	898
Oklahoma	538	639	676	642	754	803
Oregon	657	823	923	854	853	626
Pennsylvania	877	1,004	1,138	1,102	1,168	997
Rhode Island	677	852	1,004	1,141	1,208	1,382
South Carolina	724	710	760	793	842	1,009
South Dakota	382	441	549	650	729	749
Tennessee	655	749	842	782	887	933
Texas	946	1,024	1,038	1,018	1,076	983
Utah	826	841	879	932	929	907
Vermont	512	674	744	768	750	502
Virginia	741	788	794	836	880	838
Washington	728	772	798	819	814	898

State Indicators

State	2003	2006	2008	2010	2013	2015
West Virginia	542	605	678	695	641	759
Wisconsin	851	878	882	799	801	911
Wyoming	590	753	816	856	1,062	1,024
Puerto Rico	286	398	412	389	254	329

Note(s):
Articles were fractionally allocated among regions/countries/economies based on the proportion of residences of all named authors. The publication total for the United States reported here includes Puerto Rico, as well as articles for which the location could not be determined; Employed SEH doctorate holders are classified by employment location.

Source(s):
Science-Metrix, special tabulations from Scopus, data as of July 2017; National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients (various years), data as of August 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Academic S&E article output

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	224,963	244,666	265,916	272,004	279,707	285,070	291,363	299,223	312,629	318,200
Alabama	2,730	3,048	3,237	3,315	3,426	3,511	3,459	3,429	3,626	3,747
Alaska	268	268	360	324	351	395	368	398	415	400
Arizona	3,530	3,716	4,138	4,161	4,393	4,439	4,505	4,726	4,866	4,857
Arkansas	955	1,080	1,221	1,178	1,289	1,252	1,249	1,273	1,338	1,377
California	27,624	29,362	31,759	32,651	33,566	34,048	35,006	35,633	36,809	37,479
Colorado	3,687	4,084	4,375	4,555	4,502	4,689	4,791	4,873	5,426	5,653
Connecticut	3,864	4,274	4,557	4,696	4,584	4,848	5,040	5,090	5,355	5,666
Delaware	860	958	1,046	1,016	1,058	1,105	1,080	1,037	1,114	1,147
District of Columbia	1,852	1,950	2,066	2,075	2,160	2,111	2,153	2,291	2,485	2,534
Florida	7,151	8,068	9,126	9,541	9,748	10,105	10,351	10,527	10,757	11,240
Georgia	5,670	6,345	6,885	6,860	7,466	7,418	7,652	8,009	8,203	8,372
Hawaii	826	898	925	1,008	1,098	1,155	1,102	1,119	1,138	1,099
Idaho	474	523	573	662	667	635	710	638	765	652
Illinois	10,233	11,132	11,944	12,296	12,606	12,769	13,030	13,451	13,623	13,800
Indiana	4,701	5,100	5,742	6,039	6,214	6,359	6,550	6,854	7,083	7,366
Iowa	2,893	3,070	3,323	3,334	3,289	3,423	3,378	3,418	3,427	3,477
Kansas	1,786	1,897	2,028	2,001	2,074	2,038	2,284	2,353	2,421	2,493
Kentucky	2,076	2,148	2,548	2,495	2,640	2,668	2,573	2,653	2,874	2,883
Louisiana	2,414	2,492	2,902	2,557	2,516	2,532	2,678	2,867	2,922	2,803
Maine	469	505	565	531	595	528	582	588	599	597
Maryland	7,186	7,615	8,473	8,483	8,882	8,778	8,828	9,032	9,599	9,853
Massachusetts	15,313	17,005	18,082	19,017	19,342	19,954	20,292	20,792	22,379	22,841
Michigan	7,751	8,319	9,182	9,283	9,584	9,736	10,345	10,462	11,017	11,003

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	3,368	3,683	4,106	4,053	4,301	4,255	4,480	4,489	4,784	4,651
Mississippi	1,154	1,214	1,475	1,551	1,476	1,608	1,642	1,628	1,639	1,692
Missouri	4,344	4,634	5,052	5,151	5,355	5,555	5,586	5,650	5,675	5,875
Montana	485	489	535	647	628	629	628	626	658	670
Nebraska	1,391	1,711	1,786	1,742	1,796	1,771	1,779	1,815	2,029	1,961
Nevada	708	760	835	953	959	1,058	1,025	1,011	1,030	948
New Hampshire	941	1,002	1,102	1,146	1,147	1,102	1,137	1,186	1,221	1,234
New Jersey	4,825	5,014	5,498	5,584	5,651	5,623	5,742	5,725	5,940	6,020
New Mexico	1,198	1,382	1,475	1,501	1,487	1,510	1,581	1,531	1,578	1,586
New York	18,646	20,116	21,565	22,528	22,626	22,985	23,643	24,212	24,934	25,918
North Carolina	7,375	8,019	8,760	9,088	9,771	9,703	9,894	10,275	10,935	11,336
North Dakota	449	502	599	635	604	710	656	728	724	783
Ohio	7,906	8,600	9,400	9,529	9,805	9,894	9,878	9,948	10,575	10,789
Oklahoma	1,511	1,751	1,780	1,808	1,865	2,029	2,079	2,119	2,288	2,325
Oregon	2,392	2,645	2,808	2,898	3,018	3,047	3,019	2,988	3,285	3,347
Pennsylvania	13,386	14,222	15,912	15,829	16,198	16,734	16,782	17,628	18,388	18,339
Rhode Island	1,402	1,463	1,633	1,696	1,692	1,706	1,713	1,825	1,927	2,069
South Carolina	2,034	2,227	2,390	2,451	2,457	2,660	2,652	2,855	2,980	2,995
South Dakota	237	234	310	291	371	384	405	455	487	530
Tennessee	3,336	3,715	3,977	4,121	4,244	4,545	4,566	4,691	5,065	5,187
Texas	13,951	15,080	16,596	16,974	17,763	18,264	18,765	19,643	20,859	20,921
Utah	2,256	2,569	2,760	2,961	3,041	2,987	3,111	3,263	3,519	3,556
Vermont	522	595	617	674	676	670	667	691	699	734
Virginia	5,194	5,424	5,986	6,012	6,319	6,590	6,755	7,020	7,221	7,519
Washington	4,817	5,001	5,450	5,406	5,557	5,664	5,668	5,898	6,095	6,091
West Virginia	645	685	771	799	812	814	892	903	1,000	982

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	4,254	4,616	4,885	5,022	5,270	5,204	5,360	5,352	5,583	5,773
Wyoming	289	324	349	369	419	408	401	428	477	477
Puerto Rico	372	334	411	505	490	536	533	584	493	491

Science and Engineering Indicators 2018

State Indicators

Academic S&E article output

State	2013	2014	2015	2016
United States	323,887	329,068	322,586	307,855
Alabama	3,884	3,815	3,727	3,581
Alaska	449	424	409	335
Arizona	4,823	5,103	4,998	4,835
Arkansas	1,422	1,421	1,351	1,359
California	37,336	37,700	36,832	34,894
Colorado	5,875	6,009	5,991	5,856
Connecticut	5,723	6,051	5,804	5,578
Delaware	1,171	1,147	1,070	978
District of Columbia	2,564	2,641	2,263	2,092
Florida	11,398	11,198	11,286	10,978
Georgia	8,671	8,769	8,542	8,044
Hawaii	1,163	1,199	1,097	1,006
Idaho	744	764	721	706
Illinois	14,050	14,318	14,212	13,410
Indiana	7,266	7,674	7,525	7,162
Iowa	3,593	3,736	3,551	3,356
Kansas	2,490	2,431	2,518	2,439
Kentucky	2,920	2,852	2,831	2,630
Louisiana	2,742	2,669	2,627	2,463
Maine	601	620	557	535
Maryland	10,183	10,257	10,282	9,712
Massachusetts	23,160	23,985	23,172	21,986
Michigan	11,386	11,367	11,215	10,857

State Indicators

State	2013	2014	2015	2016
Minnesota	4,768	4,685	4,610	4,330
Mississippi	1,697	1,679	1,564	1,601
Missouri	5,893	6,005	5,882	5,579
Montana	652	681	686	649
Nebraska	2,011	2,053	2,089	2,064
Nevada	929	922	968	946
New Hampshire	1,266	1,284	1,319	1,211
New Jersey	6,112	5,889	5,925	5,688
New Mexico	1,594	1,708	1,616	1,469
New York	26,414	26,745	26,225	25,140
North Carolina	11,491	11,723	11,335	10,712
North Dakota	825	819	840	829
Ohio	11,103	11,185	11,003	10,286
Oklahoma	2,338	2,274	2,328	2,164
Oregon	3,325	3,520	3,351	3,372
Pennsylvania	18,929	19,074	18,835	17,795
Rhode Island	2,053	2,182	2,142	2,057
South Carolina	3,114	3,180	3,229	3,095
South Dakota	583	532	524	497
Tennessee	5,412	5,479	5,367	5,222
Texas	21,519	21,788	21,324	20,722
Utah	3,625	3,635	3,672	3,456
Vermont	750	776	678	708
Virginia	7,388	7,723	7,629	7,206
Washington	6,265	6,418	6,557	6,479
West Virginia	1,026	976	1,101	1,012

State Indicators

State	2013	2014	2015	2016
Wisconsin	5,766	5,976	5,695	5,475
Wyoming	531	532	461	493
Puerto Rico	457	516	493	449
Science and Engineering Indicators 2018				

State Indicators

SEH doctorate holders in academia

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
United States	237,190	222,450	251,740	268,570	280,340	280,400	302,000	316,900	336,950
Alabama	4,560	3,200	3,000	3,180	3,320	3,400	3,600	3,900	4,750
Alaska	450	400	530	600	580	700	700	800	800
Arizona	2,920	2,900	3,170	3,410	3,800	3,900	3,900	4,600	4,400
Arkansas	1,520	1,650	1,600	1,840	1,930	1,500	2,000	1,900	2,850
California	24,780	21,150	25,140	28,530	27,620	29,500	31,800	33,800	36,700
Colorado	4,410	4,050	4,850	5,060	5,310	5,000	5,600	6,200	6,650
Connecticut	3,870	4,250	4,180	4,190	4,460	4,900	5,200	5,200	5,350
Delaware	720	500	760	740	840	800	900	1,000	1,200
District of Columbia	1,900	2,250	2,500	2,370	2,290	2,000	2,300	2,800	3,650
Florida	6,530	6,550	7,750	8,250	9,040	9,300	10,700	12,300	10,550
Georgia	5,550	5,350	6,340	6,960	7,370	7,800	8,400	8,600	8,550
Hawaii	1,250	1,100	1,500	1,760	1,550	1,800	1,600	1,800	1,600
Idaho	780	750	930	1,140	1,380	1,300	1,200	1,400	1,150
Illinois	10,190	9,200	10,570	10,510	11,390	11,100	12,200	11,700	14,200
Indiana	4,550	4,650	5,610	5,740	6,080	5,800	6,700	7,000	7,700
Iowa	3,100	3,000	3,160	3,370	3,500	3,900	3,900	3,800	4,250
Kansas	2,240	1,850	2,200	2,320	2,560	2,700	2,500	2,600	3,200
Kentucky	2,990	2,850	3,240	3,300	3,590	3,400	3,500	3,600	3,800
Louisiana	3,440	2,950	3,340	3,440	3,350	2,900	3,000	3,000	3,550
Maine	1,290	1,150	1,150	1,150	1,210	1,200	1,100	1,300	1,400
Maryland	5,920	4,850	5,830	6,800	7,180	7,800	7,900	8,600	10,200
Massachusetts	11,400	11,550	12,880	14,230	14,320	13,100	14,100	15,600	16,700
Michigan	7,760	7,250	8,720	8,890	9,340	8,800	10,200	10,500	10,750

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Minnesota	4,330	4,700	5,290	5,390	5,650	5,300	6,000	6,200	6,550
Mississippi	1,940	1,900	1,950	2,030	1,980	1,900	1,900	2,000	1,950
Missouri	5,690	5,000	5,610	5,600	5,620	5,700	6,300	6,700	6,800
Montana	990	1,000	810	1,070	1,200	1,200	1,300	1,300	1,300
Nebraska	2,280	1,600	1,940	1,830	1,820	1,800	2,100	1,900	2,450
Nevada	970	900	1,260	1,220	1,600	1,400	1,400	1,300	1,350
New Hampshire	1,090	950	1,210	1,240	1,210	1,500	1,600	1,600	1,700
New Jersey	4,870	4,450	5,430	5,690	6,030	6,000	6,300	6,700	6,550
New Mexico	2,280	1,600	2,760	2,810	2,070	2,200	2,300	2,300	2,100
New York	19,530	18,800	20,180	21,150	21,760	22,000	23,700	24,500	26,350
North Carolina	7,550	7,900	8,630	9,210	9,900	10,100	10,400	10,900	11,050
North Dakota	890	750	660	730	970	900	1,100	1,000	850
Ohio	9,560	9,150	9,760	10,330	10,120	9,700	10,100	10,800	12,250
Oklahoma	2,650	2,300	2,780	2,810	2,830	3,000	3,300	3,100	2,900
Oregon	2,620	2,750	3,120	3,640	3,520	3,300	3,500	3,900	5,350
Pennsylvania	11,770	12,300	13,280	15,270	15,770	14,700	16,000	16,200	18,900
Rhode Island	1,680	1,700	1,670	2,070	1,990	1,700	1,600	1,700	1,550
South Carolina	3,120	2,550	2,920	2,810	3,450	3,500	3,600	3,700	3,200
South Dakota	670	650	610	620	660	700	700	800	700
Tennessee	4,630	4,250	4,710	5,090	5,500	5,400	6,000	6,100	5,750
Texas	13,410	11,850	13,620	14,750	16,570	17,600	19,300	20,000	21,700
Utah	3,010	2,450	3,030	2,730	3,520	3,400	3,500	3,900	4,050
Vermont	1,080	1,000	980	1,020	1,000	900	900	1,000	1,350
Virginia	5,390	6,000	6,520	7,010	7,630	8,300	8,400	8,400	9,100
Washington	5,240	5,000	6,250	6,620	7,000	7,100	7,200	7,700	7,300
West Virginia	1,160	1,100	1,130	1,190	1,320	1,200	1,300	1,600	1,450

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Wisconsin	5,290	4,950	5,030	5,000	5,720	5,900	6,700	7,200	6,250
Wyoming	560	550	570	490	490	500	500	500	450
Puerto Rico	640	850	1,040	1,300	1,270	1,300	1,500	1,800	1,500

Science and Engineering Indicators 2018

State Indicators

S-49 Academic Science and Engineering Article Output per $1 Million of Academic S&E R&D

Description

This indicator represents the relationship between the number of academic S&E publications and the amount of money expended for academic S&E R&D. Academic institutions include 2-year colleges, 4-year colleges or universities, medical schools, and university-affiliated research centers. This indicator is not an efficiency measure; it is affected by the highly variable costs of R&D and by publishing conventions in different fields and institutions. It may also reflect variations in field emphasis among states and institutions. Decreases in this indicator may be an effect of general price inflation as well as rising academic research costs.

Publication counts are based on the number of articles that appear in a set of journals tracked by Elsevier's Scopus database as of December 2016. The journal set consists of S&E publications (including publications on the natural sciences, the applied sciences, the medical sciences, and the social sciences but excluding the arts and humanities). Only documents published in refereed scientific journals are counted (mostly articles, reviews, and conference proceedings), as these documents were reviewed by peers prior to being accepted for publication. The peer-review process is designed to ensure that the research is of good quality and constitutes an original contribution to scientific knowledge. Fractional counting at the level of researchers is used to ensure that a single paper is not counted several times. For example, if two of three authors are in state A and the third author is in state B, then two-thirds of the publication is attributed to state A, and one-third is attributed to state B.

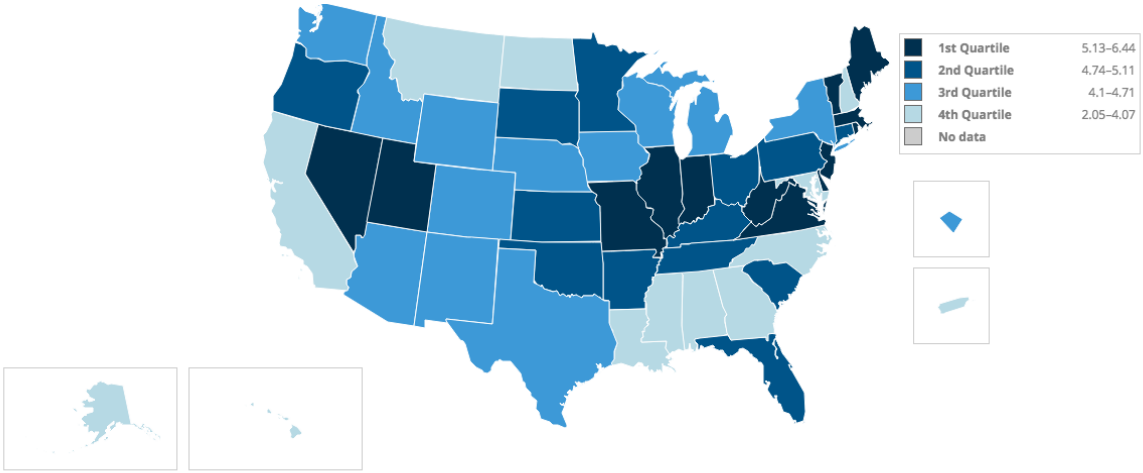
Data on academic R&D are provided by the National Center for Science and Engineering Statistics and represent R&D at U.S. colleges and universities with over $150,000 in R&D expenditures.

Data source: Science-Metrix, special tabulations from Scopus; National Science Foundation, National Center for Science and Engineering Statistics, Higher Education Research and Development.

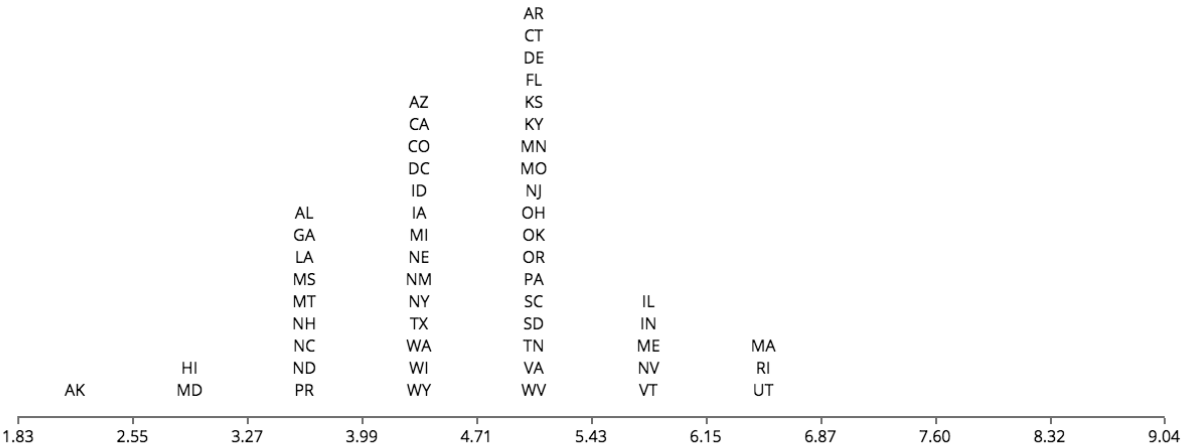
State Indicators

S-49 Academic Science and Engineering Article Output per $1 Million of Academic S&E R&D

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

Academic Science and Engineering Article Output per $1 Million of Academic S&E R&D

(Articles)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	5.61	5.66	5.81	5.70	5.65	5.50	5.31	5.12	5.04	5.12
Alabama	4.96	5.33	5.49	5.51	5.23	4.96	4.54	4.13	4.13	4.66
Alaska	1.88	1.83	2.34	1.99	2.69	3.08	2.79	2.82	2.95	2.95
Arizona	5.71	5.71	5.75	5.44	5.61	5.34	5.16	5.24	5.12	4.92
Arkansas	5.19	5.90	5.83	4.97	5.37	5.08	5.22	4.98	4.95	5.00
California	5.16	4.88	5.07	5.03	4.98	4.85	4.73	4.70	4.64	4.63
Colorado	5.31	5.29	5.30	5.55	5.16	5.07	4.53	4.32	4.37	4.52
Connecticut	6.50	6.58	6.80	6.79	6.63	6.63	6.70	5.87	5.80	6.13
Delaware	8.22	8.35	9.04	8.33	8.42	8.29	8.07	6.40	6.24	6.49
District of Columbia	6.59	6.43	6.82	7.01	6.42	5.62	6.62	5.32	5.57	5.57
Florida	5.94	6.17	6.30	6.27	6.26	6.35	6.22	5.92	5.67	5.82
Georgia	4.82	5.19	5.40	5.27	5.38	4.88	4.89	4.97	4.95	4.89
Hawaii	4.47	3.72	3.85	3.91	4.00	4.14	3.67	3.56	3.49	3.35
Idaho	4.51	4.48	4.78	5.94	5.84	5.60	5.88	5.20	5.49	4.56
Illinois	6.34	6.50	6.74	6.74	6.75	6.47	6.17	6.27	6.02	6.08
Indiana	6.48	6.06	7.56	7.33	6.95	6.66	6.52	6.54	6.20	6.40
Iowa	5.80	5.77	6.06	5.82	5.61	6.49	6.00	4.95	4.86	5.00
Kansas	5.76	5.70	5.82	5.65	5.52	5.05	5.18	5.11	5.19	5.20
Kentucky	5.50	5.07	5.63	5.21	5.25	5.35	4.96	4.93	5.17	5.27
Louisiana	4.69	4.45	4.97	4.62	4.17	3.83	3.99	4.36	4.38	4.29
Maine	5.59	5.10	5.85	4.42	4.33	4.12	4.53	4.95	4.63	5.03
Maryland	3.52	3.36	3.59	3.35	3.49	3.20	2.92	2.92	2.85	2.98
Massachusetts	8.40	8.50	8.70	8.96	8.91	8.78	8.24	7.91	7.97	7.59

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	5.58	5.95	6.31	6.30	6.35	6.11	5.94	5.50	5.43	5.30
Minnesota	6.50	6.88	7.36	6.70	6.75	6.09	5.91	5.59	5.52	5.53
Mississippi	3.56	3.49	4.18	4.20	3.59	3.96	3.94	3.89	3.80	3.86
Missouri	5.38	5.51	5.66	5.72	5.69	5.79	5.54	5.86	5.77	5.56
Montana	3.43	3.16	3.13	3.75	3.51	3.39	3.46	3.20	3.61	3.63
Nebraska	4.63	5.26	4.96	4.85	4.92	4.71	4.52	4.74	5.16	4.68
Nevada	4.58	4.64	4.68	4.90	4.99	5.54	5.63	5.91	6.43	6.35
New Hampshire	3.73	3.61	3.83	3.63	3.74	3.65	3.81	3.97	3.57	3.53
New Jersey	6.40	6.23	6.35	6.51	6.54	6.40	6.28	5.60	5.44	5.68
New Mexico	3.91	4.55	4.08	3.56	3.62	3.62	3.63	3.76	3.94	4.06
New York	6.10	6.04	6.01	5.91	5.70	5.77	5.66	5.06	4.88	5.02
North Carolina	5.28	5.54	5.29	5.32	5.19	4.90	4.58	4.24	4.20	4.33
North Dakota	3.36	3.31	3.99	3.97	3.56	3.93	3.53	3.59	3.46	3.66
Ohio	6.23	6.52	6.14	5.82	5.55	5.42	5.21	5.07	5.02	5.35
Oklahoma	5.12	6.19	6.10	6.06	6.24	6.09	6.17	5.53	5.47	5.63
Oregon	5.47	5.24	5.24	5.20	5.25	5.12	4.74	4.50	4.68	4.92
Pennsylvania	6.64	6.44	6.72	6.51	6.64	6.43	6.16	5.82	5.74	5.87
Rhode Island	7.49	7.61	8.18	7.37	7.35	7.21	6.95	6.34	5.83	6.16
South Carolina	4.67	4.88	4.90	4.68	4.32	4.62	4.34	4.63	5.17	5.31
South Dakota	4.74	3.99	4.63	4.00	4.55	4.18	3.96	3.60	3.68	4.30
Tennessee	5.56	5.64	5.48	5.55	5.57	5.77	5.48	5.33	5.32	5.36
Texas	5.05	5.24	5.40	5.19	5.20	4.88	4.71	4.65	4.71	4.74
Utah	5.86	6.31	6.90	7.17	7.33	7.02	6.22	5.92	5.73	5.85
Vermont	4.90	5.14	5.26	5.45	5.88	5.72	5.34	5.21	5.12	6.13
Virginia	6.69	6.39	6.58	6.35	6.51	6.26	6.21	6.19	5.55	5.86
Washington	5.53	5.57	6.05	5.47	5.66	5.35	5.23	4.52	4.24	4.43

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	5.14	5.08	5.26	5.31	4.86	4.82	5.11	5.06	5.10	5.19
Wisconsin	4.85	4.83	4.89	4.83	4.94	4.66	4.45	4.35	4.17	4.34
Wyoming	4.81	5.40	4.18	4.13	5.26	5.46	5.17	7.93	8.62	7.48
Puerto Rico	4.74	3.86	4.10	4.85	4.59	4.80	5.06	5.08	3.23	3.48

Note(s):
Articles were fractionally allocated among regions/countries/economies based on the proportion of residences of all named authors. The publication total for the United States reported here includes Puerto Rico, as well as articles for which the location could not be determined; Academic R&D is reported for institutions with R&D over $150,000. The national total for the United States includes U.S. territories.

Source(s):
Science-Metrix, special tabulations from Scopus, data as of July 2017; National Science Foundation, National Center for Science and Engineering Statistics, Higher Education Research and Development Survey (various years), data as of August 2017.

Recommended Citation: National Science Board. 2018. "Academic Science and Engineering Article Output per $1 Million of Academic S&E R&D." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/academic-se-articles-per-1-million-in-academic-rd

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Academic Science and Engineering Article Output per $1 Million of Academic S&E R&D

(Articles)

State	2013	2014	2015	2016
United States	5.11	5.16	4.97	4.55
Alabama	4.81	4.86	4.29	3.90
Alaska	3.37	2.51	2.60	2.05
Arizona	4.76	5.17	4.85	4.51
Arkansas	5.10	5.29	4.86	4.78
California	4.63	4.64	4.42	4.07
Colorado	4.89	5.07	4.89	4.42
Connecticut	5.49	5.88	5.46	4.88
Delaware	6.24	6.12	5.82	5.15
District of Columbia	5.54	5.42	4.63	4.32
Florida	5.93	5.55	5.42	4.90
Georgia	4.85	4.74	4.45	3.96
Hawaii	3.43	3.63	3.34	3.20
Idaho	5.34	5.54	5.04	4.71
Illinois	5.84	6.40	6.22	5.92
Indiana	6.05	6.56	6.31	5.80
Iowa	5.18	5.02	4.89	4.34
Kansas	4.98	5.01	5.14	5.09
Kentucky	5.67	5.64	5.60	4.91
Louisiana	4.33	4.25	4.31	3.91
Maine	5.81	5.14	5.65	5.48
Maryland	3.02	2.92	2.78	2.59
Massachusetts	7.13	7.45	6.80	6.24

State Indicators

State	2013	2014	2015	2016
Michigan	5.34	5.37	5.09	4.68
Minnesota	5.48	5.29	5.22	4.74
Mississippi	4.40	4.43	4.10	3.88
Missouri	5.73	5.92	5.62	5.13
Montana	3.72	3.95	4.00	3.51
Nebraska	4.79	4.80	4.79	4.61
Nevada	6.32	6.31	6.53	5.47
New Hampshire	3.77	3.80	3.92	3.35
New Jersey	5.46	5.45	5.65	5.31
New Mexico	4.08	4.27	4.28	4.11
New York	4.96	4.91	4.81	4.31
North Carolina	4.30	4.28	4.13	3.76
North Dakota	3.88	3.80	3.95	3.75
Ohio	5.42	5.47	5.45	5.01
Oklahoma	6.08	5.80	5.93	5.05
Oregon	4.98	5.25	4.93	4.80
Pennsylvania	5.85	5.94	5.80	4.80
Rhode Island	6.40	5.76	5.68	6.22
South Carolina	5.49	5.62	5.65	5.11
South Dakota	5.15	5.30	5.39	4.86
Tennessee	5.56	5.08	5.25	5.03
Texas	4.69	4.68	4.45	4.15
Utah	5.39	5.39	5.13	6.44
Vermont	6.24	6.82	5.70	5.90
Virginia	5.58	6.00	5.86	5.31
Washington	4.47	4.59	4.58	4.25

State Indicators

State	2013	2014	2015	2016
West Virginia	5.55	5.30	5.86	5.37
Wisconsin	4.51	4.71	4.64	4.10
Wyoming	8.41	10.92	8.39	4.54
Puerto Rico	3.69	4.40	4.06	3.84

Note(s):
Articles were fractionally allocated among regions/countries/economies based on the proportion of residences of all named authors. The publication total for the United States reported here includes Puerto Rico, as well as articles for which the location could not be determined; Academic R&D is reported for institutions with R&D over $150,000. The national total for the United States includes U.S. territories.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Academic S&E article output

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	224,963	244,666	265,916	272,004	279,707	285,070	291,363	299,223	312,629	318,200
Alabama	2,730	3,048	3,237	3,315	3,426	3,511	3,459	3,429	3,626	3,747
Alaska	268	268	360	324	351	395	368	398	415	400
Arizona	3,530	3,716	4,138	4,161	4,393	4,439	4,505	4,726	4,866	4,857
Arkansas	955	1,080	1,221	1,178	1,289	1,252	1,249	1,273	1,338	1,377
California	27,624	29,362	31,759	32,651	33,566	34,048	35,006	35,633	36,809	37,479
Colorado	3,687	4,084	4,375	4,555	4,502	4,689	4,791	4,873	5,426	5,653
Connecticut	3,864	4,274	4,557	4,696	4,584	4,848	5,040	5,090	5,355	5,666
Delaware	860	958	1,046	1,016	1,058	1,105	1,080	1,037	1,114	1,147
District of Columbia	1,852	1,950	2,066	2,075	2,160	2,111	2,153	2,291	2,485	2,534
Florida	7,151	8,068	9,126	9,541	9,748	10,105	10,351	10,527	10,757	11,240
Georgia	5,670	6,345	6,885	6,860	7,466	7,418	7,652	8,009	8,203	8,372
Hawaii	826	898	925	1,008	1,098	1,155	1,102	1,119	1,138	1,099
Idaho	474	523	573	662	667	635	710	638	765	652
Illinois	10,233	11,132	11,944	12,296	12,606	12,769	13,030	13,451	13,623	13,800
Indiana	4,701	5,100	5,742	6,039	6,214	6,359	6,550	6,854	7,083	7,366
Iowa	2,893	3,070	3,323	3,334	3,289	3,423	3,378	3,418	3,427	3,477
Kansas	1,786	1,897	2,028	2,001	2,074	2,038	2,284	2,353	2,421	2,493
Kentucky	2,076	2,148	2,548	2,495	2,640	2,668	2,573	2,653	2,874	2,883
Louisiana	2,414	2,492	2,902	2,557	2,516	2,532	2,678	2,867	2,922	2,803
Maine	469	505	565	531	595	528	582	588	599	597
Maryland	7,186	7,615	8,473	8,483	8,882	8,778	8,828	9,032	9,599	9,853
Massachusetts	15,313	17,005	18,082	19,017	19,342	19,954	20,292	20,792	22,379	22,841
Michigan	7,751	8,319	9,182	9,283	9,584	9,736	10,345	10,462	11,017	11,003

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	3,368	3,683	4,106	4,053	4,301	4,255	4,480	4,489	4,784	4,651
Mississippi	1,154	1,214	1,475	1,551	1,476	1,608	1,642	1,628	1,639	1,692
Missouri	4,344	4,634	5,052	5,151	5,355	5,555	5,586	5,650	5,675	5,875
Montana	485	489	535	647	628	629	628	626	658	670
Nebraska	1,391	1,711	1,786	1,742	1,796	1,771	1,779	1,815	2,029	1,961
Nevada	708	760	835	953	959	1,058	1,025	1,011	1,030	948
New Hampshire	941	1,002	1,102	1,146	1,147	1,102	1,137	1,186	1,221	1,234
New Jersey	4,825	5,014	5,498	5,584	5,651	5,623	5,742	5,725	5,940	6,020
New Mexico	1,198	1,382	1,475	1,501	1,487	1,510	1,581	1,531	1,578	1,586
New York	18,646	20,116	21,565	22,528	22,626	22,985	23,643	24,212	24,934	25,918
North Carolina	7,375	8,019	8,760	9,088	9,771	9,703	9,894	10,275	10,935	11,336
North Dakota	449	502	599	635	604	710	656	728	724	783
Ohio	7,906	8,600	9,400	9,529	9,805	9,894	9,878	9,948	10,575	10,789
Oklahoma	1,511	1,751	1,780	1,808	1,865	2,029	2,079	2,119	2,288	2,325
Oregon	2,392	2,645	2,808	2,898	3,018	3,047	3,019	2,988	3,285	3,347
Pennsylvania	13,386	14,222	15,912	15,829	16,198	16,734	16,782	17,628	18,388	18,339
Rhode Island	1,402	1,463	1,633	1,696	1,692	1,706	1,713	1,825	1,927	2,069
South Carolina	2,034	2,227	2,390	2,451	2,457	2,660	2,652	2,855	2,980	2,995
South Dakota	237	234	310	291	371	384	405	455	487	530
Tennessee	3,336	3,715	3,977	4,121	4,244	4,545	4,566	4,691	5,065	5,187
Texas	13,951	15,080	16,596	16,974	17,763	18,264	18,765	19,643	20,859	20,921
Utah	2,256	2,569	2,760	2,961	3,041	2,987	3,111	3,263	3,519	3,556
Vermont	522	595	617	674	676	670	667	691	699	734
Virginia	5,194	5,424	5,986	6,012	6,319	6,590	6,755	7,020	7,221	7,519
Washington	4,817	5,001	5,450	5,406	5,557	5,664	5,668	5,898	6,095	6,091
West Virginia	645	685	771	799	812	814	892	903	1,000	982

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	4,254	4,616	4,885	5,022	5,270	5,204	5,360	5,352	5,583	5,773
Wyoming	289	324	349	369	419	408	401	428	477	477
Puerto Rico	372	334	411	505	490	536	533	584	493	491

Science and Engineering Indicators 2018

State Indicators

Academic S&E article output

State	2013	2014	2015	2016
United States	323,887	329,068	322,586	307,855
Alabama	3,884	3,815	3,727	3,581
Alaska	449	424	409	335
Arizona	4,823	5,103	4,998	4,835
Arkansas	1,422	1,421	1,351	1,359
California	37,336	37,700	36,832	34,894
Colorado	5,875	6,009	5,991	5,856
Connecticut	5,723	6,051	5,804	5,578
Delaware	1,171	1,147	1,070	978
District of Columbia	2,564	2,641	2,263	2,092
Florida	11,398	11,198	11,286	10,978
Georgia	8,671	8,769	8,542	8,044
Hawaii	1,163	1,199	1,097	1,006
Idaho	744	764	721	706
Illinois	14,050	14,318	14,212	13,410
Indiana	7,266	7,674	7,525	7,162
Iowa	3,593	3,736	3,551	3,356
Kansas	2,490	2,431	2,518	2,439
Kentucky	2,920	2,852	2,831	2,630
Louisiana	2,742	2,669	2,627	2,463
Maine	601	620	557	535
Maryland	10,183	10,257	10,282	9,712
Massachusetts	23,160	23,985	23,172	21,986
Michigan	11,386	11,367	11,215	10,857

State Indicators

State	2013	2014	2015	2016
Minnesota	4,768	4,685	4,610	4,330
Mississippi	1,697	1,679	1,564	1,601
Missouri	5,893	6,005	5,882	5,579
Montana	652	681	686	649
Nebraska	2,011	2,053	2,089	2,064
Nevada	929	922	968	946
New Hampshire	1,266	1,284	1,319	1,211
New Jersey	6,112	5,889	5,925	5,688
New Mexico	1,594	1,708	1,616	1,469
New York	26,414	26,745	26,225	25,140
North Carolina	11,491	11,723	11,335	10,712
North Dakota	825	819	840	829
Ohio	11,103	11,185	11,003	10,286
Oklahoma	2,338	2,274	2,328	2,164
Oregon	3,325	3,520	3,351	3,372
Pennsylvania	18,929	19,074	18,835	17,795
Rhode Island	2,053	2,182	2,142	2,057
South Carolina	3,114	3,180	3,229	3,095
South Dakota	583	532	524	497
Tennessee	5,412	5,479	5,367	5,222
Texas	21,519	21,788	21,324	20,722
Utah	3,625	3,635	3,672	3,456
Vermont	750	776	678	708
Virginia	7,388	7,723	7,629	7,206
Washington	6,265	6,418	6,557	6,479
West Virginia	1,026	976	1,101	1,012

State Indicators

State	2013	2014	2015	2016
Wisconsin	5,766	5,976	5,695	5,475
Wyoming	531	532	461	493
Puerto Rico	457	516	493	449
Science and Engineering Indicators 2018				

State Indicators

Academic S&E R&D

State	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
United States	25,866.7	27,543.3	30,083.5	32,800.5	36,382.6	40,077.4	43,237.8	45,773.9	47,758.7	49,494.9
Alabama	442.1	416.6	428.1	448.3	503.5	550.8	572.3	589.9	601.9	655.2
Alaska	75.9	93.7	107.4	119.2	128.9	142.4	146.5	153.7	163.0	130.6
Arizona	406.0	439.3	465.8	500.5	531.1	618.0	651.0	720.2	765.4	782.7
Arkansas	117.1	112.4	131.9	142.3	140.8	183.9	183.0	209.5	237.2	240.0
California	3,392.1	3,665.2	4,067.8	4,428.9	4,887.9	5,357.9	6,012.9	6,264.9	6,490.1	6,733.5
Colorado	489.4	507.7	544.6	573.0	645.3	694.9	771.4	825.0	820.6	872.6
Connecticut	406.6	419.4	468.7	499.1	538.5	594.5	649.2	669.9	692.0	691.4
Delaware	72.8	76.3	78.1	80.0	88.3	104.7	114.7	115.8	122.0	125.7
District of Columbia	232.9	223.8	245.8	228.1	260.8	280.9	303.0	302.9	296.2	336.6
Florida	712.7	788.7	851.9	985.6	1,085.8	1,204.6	1,306.8	1,448.6	1,522.1	1,557.5
Georgia	804.2	841.0	926.7	989.0	1,076.7	1,176.5	1,222.2	1,274.4	1,302.6	1,389.0
Hawaii	148.0	156.8	161.3	157.0	172.7	184.6	241.3	240.2	257.5	274.4
Idaho	72.4	71.7	73.7	82.5	93.3	105.0	116.8	119.9	111.5	114.2
Illinois	1,031.0	1,101.6	1,170.9	1,281.3	1,441.2	1,614.3	1,713.3	1,771.1	1,824.2	1,867.0
Indiana	426.3	460.4	509.1	584.4	650.7	725.8	841.1	759.6	823.5	893.8
Iowa	358.6	375.3	418.3	439.8	485.8	498.7	531.8	548.3	572.6	586.8
Kansas	213.3	234.6	258.5	268.9	299.8	310.1	332.5	348.8	354.4	376.0
Kentucky	241.5	274.9	277.0	298.3	334.2	377.6	424.0	452.3	479.3	503.3
Louisiana	354.0	376.9	409.5	436.5	476.8	514.4	559.4	584.3	552.9	604.0
Maine	35.3	44.4	57.8	71.0	75.1	83.9	99.1	96.6	120.0	137.4
Maryland	1,330.3	1,387.4	1,507.7	1,653.8	1,895.4	2,040.7	2,268.3	2,356.9	2,530.0	2,542.3
Massachusetts	1,348.2	1,401.9	1,486.2	1,579.0	1,697.2	1,821.9	2,000.1	2,079.5	2,122.8	2,171.6
Michigan	882.7	921.6	1,007.9	1,108.6	1,233.9	1,390.1	1,397.4	1,456.2	1,473.2	1,510.0

State Indicators

State	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Minnesota	367.8	377.4	418.0	469.4	504.4	517.9	535.5	558.3	605.2	636.9
Mississippi	152.7	175.1	217.1	261.0	289.4	324.2	347.6	353.1	369.1	410.6
Missouri	484.5	549.9	614.0	678.2	705.6	807.1	841.8	893.0	900.2	941.4
Montana	76.7	84.5	99.1	107.7	122.4	141.2	154.7	170.8	172.6	179.1
Nebraska	186.3	205.5	208.5	241.6	266.9	300.5	325.0	360.1	358.9	364.8
Nevada	83.9	91.5	106.2	115.9	126.7	154.5	163.8	178.5	194.5	192.1
New Hampshire	117.3	127.1	151.0	197.0	220.1	252.2	277.2	287.5	315.4	307.1
New Jersey	484.9	521.3	567.7	628.0	690.6	754.4	805.1	865.6	858.4	864.7
New Mexico	228.7	224.5	243.8	274.2	292.7	306.6	303.9	361.5	421.4	410.4
New York	1,929.7	2,074.8	2,297.1	2,458.4	2,742.9	3,055.1	3,331.8	3,585.3	3,812.9	3,971.7
North Carolina	899.5	1,012.9	1,040.9	1,139.1	1,279.4	1,397.9	1,446.9	1,655.3	1,709.9	1,884.2
North Dakota	56.9	61.7	67.4	84.6	106.1	133.6	151.7	150.0	160.1	169.5
Ohio	810.2	831.3	918.2	996.1	1,116.1	1,268.4	1,319.7	1,531.6	1,637.5	1,767.9
Oklahoma	208.9	238.8	252.4	255.2	282.1	295.1	283.0	291.7	298.2	298.7
Oregon	314.4	327.9	346.1	366.0	386.7	437.0	504.8	536.2	557.4	574.5
Pennsylvania	1,348.9	1,391.3	1,553.2	1,693.8	1,913.7	2,014.8	2,208.1	2,367.8	2,431.4	2,438.3
Rhode Island	112.0	120.9	129.7	142.6	163.1	187.1	192.3	199.7	230.1	230.3
South Carolina	248.5	267.9	294.3	361.4	400.0	435.3	456.0	487.8	524.0	569.3
South Dakota	25.5	25.8	27.6	32.5	38.4	50.0	58.6	67.0	72.8	81.5
Tennessee	346.7	371.7	405.3	428.3	491.3	600.0	658.2	726.1	742.9	761.4
Texas	1,697.3	1,830.0	2,037.7	2,251.8	2,535.2	2,764.8	2,879.1	3,073.7	3,270.7	3,417.1
Utah	249.1	273.2	308.1	338.1	359.6	385.2	407.3	400.3	412.8	414.7
Vermont	58.6	64.8	64.8	76.9	90.2	106.6	115.8	117.4	123.6	115.0
Virginia	497.2	505.4	553.9	610.9	693.7	776.1	849.0	910.2	946.9	971.4
Washington	543.2	589.7	644.0	707.8	784.2	871.1	897.3	901.6	988.3	981.2
West Virginia	64.2	65.7	75.5	81.9	100.8	125.4	135.0	146.5	150.4	167.2

State Indicators

State	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Wisconsin	536.0	597.4	662.1	729.3	806.5	877.8	956.7	999.8	1,039.5	1,066.7
Wyoming	48.5	47.2	43.1	41.6	41.6	60.1	60.1	83.4	89.4	79.7
Puerto Rico	87.6	90.5	74.5	63.8	70.3	78.4	86.5	100.2	104.1	106.9

Science and Engineering Indicators 2018

State Indicators

Academic S&E R&D

State	2008	2009	2010	2011	2012	2013	2014	2015	2016
United States	51,871.8	54,863.0	58,387.6	61,988.1	62,198.6	63,354.9	63,764.1	64,945.5	67,672.4
Alabama	707.8	762.0	829.4	878.6	804.7	807.2	784.9	868.2	917.4
Alaska	128.2	131.8	141.2	140.7	135.8	133.2	168.9	157.6	163.1
Arizona	831.2	873.1	901.7	951.2	987.1	1,013.9	987.3	1,031.3	1,072.6
Arkansas	246.6	239.4	255.5	270.6	275.5	278.6	268.6	278.3	284.2
California	7,026.4	7,406.7	7,579.8	7,927.3	8,102.9	8,056.4	8,122.7	8,335.5	8,564.4
Colorado	924.1	1,058.3	1,128.5	1,240.9	1,249.4	1,200.5	1,184.4	1,226.2	1,326.3
Connecticut	731.7	752.8	866.6	922.7	924.4	1,042.4	1,029.7	1,062.8	1,143.7
Delaware	133.2	133.8	161.9	178.5	176.7	187.7	187.3	183.9	189.8
District of Columbia	375.5	325.2	430.9	446.4	455.1	463.0	487.3	488.8	483.9
Florida	1,591.8	1,663.5	1,778.3	1,896.6	1,930.2	1,921.9	2,019.5	2,080.9	2,238.5
Georgia	1,521.5	1,565.6	1,611.4	1,657.9	1,711.6	1,789.1	1,850.3	1,918.0	2,029.5
Hawaii	278.8	300.3	314.7	325.9	328.2	339.0	330.6	328.7	314.4
Idaho	113.5	120.7	122.8	139.4	143.0	139.4	137.8	143.0	150.0
Illinois	1,972.8	2,113.1	2,146.1	2,264.2	2,269.7	2,407.2	2,238.3	2,284.1	2,265.4
Indiana	954.6	1,005.2	1,048.2	1,141.8	1,150.3	1,200.7	1,169.1	1,191.8	1,235.2
Iowa	527.8	562.6	689.8	705.7	695.5	693.1	743.7	726.2	774.0
Kansas	403.5	441.3	460.6	466.9	479.7	499.8	485.6	490.0	478.8
Kentucky	498.7	518.9	538.2	555.6	546.9	515.4	505.8	505.6	535.4
Louisiana	660.3	671.1	657.6	667.5	653.9	632.5	627.5	609.1	630.0
Maine	128.1	128.4	118.8	129.2	118.6	103.4	120.6	98.6	97.7
Maryland	2,747.0	3,021.1	3,094.1	3,366.7	3,308.0	3,376.4	3,514.7	3,705.0	3,744.0
Massachusetts	2,271.8	2,463.4	2,628.8	2,806.8	3,010.7	3,246.1	3,218.4	3,406.2	3,521.5
Michigan	1,593.7	1,742.1	1,903.5	2,029.7	2,076.9	2,134.1	2,115.4	2,202.0	2,320.6

State Indicators

State	2008	2009	2010	2011	2012	2013	2014	2015	2016
Minnesota	698.9	758.1	802.8	866.3	840.7	869.8	885.3	882.5	912.8
Mississippi	406.5	416.8	418.2	431.4	437.8	385.9	378.8	381.4	412.2
Missouri	960.2	1,008.9	964.2	984.4	1,056.0	1,028.7	1,014.5	1,046.4	1,088.2
Montana	185.8	181.6	195.6	182.3	184.8	175.1	172.2	171.5	184.8
Nebraska	376.1	393.6	383.3	393.4	419.2	419.6	428.0	435.8	447.7
Nevada	190.9	182.0	171.0	160.3	149.3	147.1	146.1	148.3	172.9
New Hampshire	302.0	298.3	298.6	341.8	349.9	335.5	337.9	336.9	361.8
New Jersey	878.3	913.9	1,022.7	1,091.9	1,060.5	1,120.1	1,081.0	1,048.6	1,071.8
New Mexico	417.0	435.4	407.4	400.1	390.5	390.7	400.2	377.5	357.4
New York	3,982.0	4,174.9	4,782.2	5,105.1	5,157.9	5,327.5	5,450.4	5,449.9	5,828.9
North Carolina	1,979.2	2,160.5	2,422.9	2,603.7	2,618.6	2,669.3	2,741.3	2,744.9	2,847.3
North Dakota	180.8	185.7	202.6	209.4	213.7	212.7	215.6	212.5	221.3
Ohio	1,827.0	1,895.1	1,963.6	2,107.8	2,017.4	2,048.4	2,043.8	2,017.4	2,055.0
Oklahoma	333.2	336.9	383.1	418.4	413.0	384.7	391.9	392.5	428.9
Oregon	594.9	636.6	663.4	701.2	681.0	668.0	670.1	679.7	701.8
Pennsylvania	2,604.1	2,722.3	3,026.8	3,201.6	3,125.8	3,237.8	3,210.2	3,249.3	3,710.3
Rhode Island	236.6	246.3	287.7	330.3	335.7	320.7	379.1	377.0	330.5
South Carolina	576.2	611.5	617.0	576.9	563.6	567.3	565.8	571.7	605.2
South Dakota	91.8	102.3	126.6	132.3	123.4	113.3	100.3	97.2	102.3
Tennessee	787.1	833.0	880.0	952.4	968.3	973.5	1,079.5	1,022.3	1,038.0
Texas	3,744.2	3,982.1	4,220.8	4,427.6	4,413.6	4,585.5	4,658.7	4,794.5	4,994.5
Utah	425.7	500.4	551.6	614.3	608.2	673.1	674.1	715.1	537.0
Vermont	117.2	125.0	132.5	136.6	119.8	120.2	113.7	119.0	120.0
Virginia	1,052.6	1,088.4	1,134.4	1,300.3	1,283.9	1,323.1	1,287.1	1,302.6	1,356.5
Washington	1,058.2	1,083.8	1,305.0	1,438.3	1,376.5	1,402.1	1,399.6	1,431.2	1,525.3
West Virginia	169.1	174.5	178.4	196.0	189.2	185.0	184.3	187.9	188.6

State Indicators

State	2008	2009	2010	2011	2012	2013	2014	2015	2016
Wisconsin	1,117.2	1,203.9	1,230.9	1,338.6	1,330.3	1,278.0	1,269.0	1,227.5	1,336.0
Wyoming	74.7	77.6	54.0	55.3	63.8	63.1	48.7	54.9	108.6
Puerto Rico	111.7	105.3	115.0	152.4	141.2	123.8	117.3	121.3	116.9
Science and Engineering Indicators 2018									

State Indicators

S-50 Academic Patents Awarded per 1,000 Science, Engineering, and Health Doctorate Holders in Academia

Description

Academic institutions over time have increasingly been viewed as engines of economic growth. Growing attention has been paid to the role of academic R&D in creating new products, processes, and services. One indicator of such R&D results is the volume of patents with inventors associated with academic institutions. Academic patenting is highly concentrated in many universities and partly reflects the resources devoted to institutional patenting offices.

This indicator relates the number of academic-owned utility patents to the size of the doctoral S&E workforce in academia. Academia includes 2-year colleges, 4-year colleges and universities, medical schools, and university-affiliated research centers. Utility patents, commonly known as patents for inventions, include any new, useful, or improved method, process, machine, device, manufactured item, or chemical compound and represent a key measure of intellectual property. Patent assignments are made based on the address of their inventors. For patents with multiple U.S. university inventors from different U.S. states, patents are fractionally allocated among each U.S. state based on the proportion of residences of all named inventors.

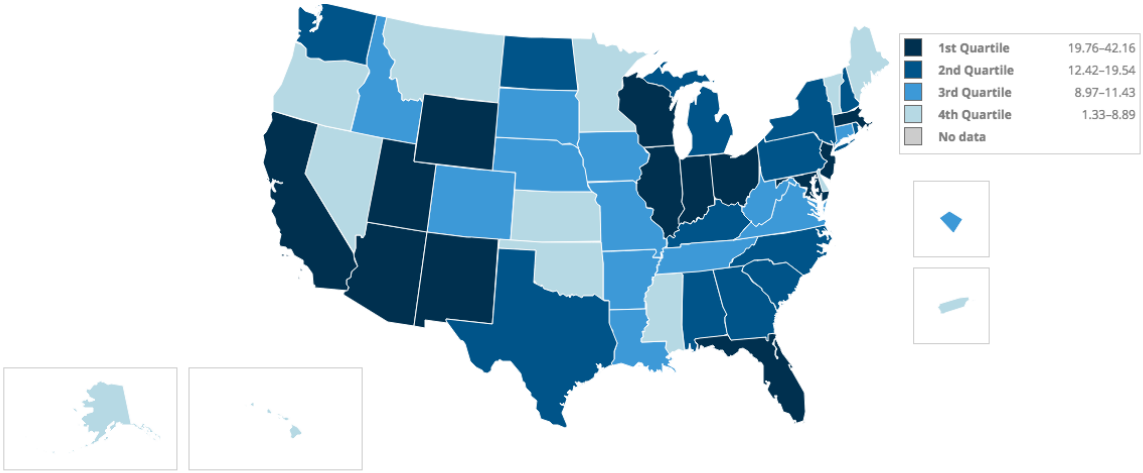
Science, engineering, and health (SEH) doctorates include those in computer sciences; mathematics; biological, agricultural, or environmental life sciences; physical sciences; social sciences; psychology; engineering; and health fields. Those academically employed who received doctorates from foreign institutions and those older than 75 are not included in the data. For states with smaller populations, estimates of doctorate holders in academia are generally less precise than estimates for states with larger populations. Data for SEH doctorate holders are presented by employment location regardless of residence.

Data sources: Science-Metrix, special tabulations from U.S. Patent and Trademark Office data in PatentsView; National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients.

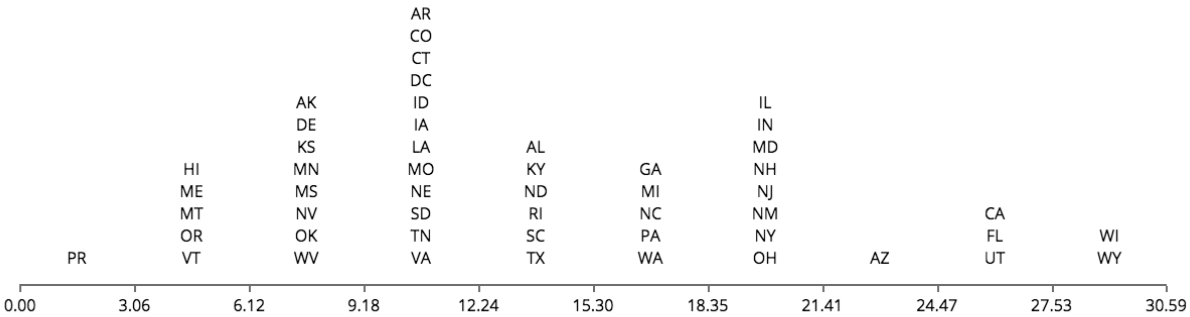
State Indicators

S-50 Academic Patents Awarded per 1,000 Science, Engineering, and Health Doctorate Holders in Academia

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

Academic Patents Awarded per 1,000 Science, Engineering, and Health Doctorate Holders in Academia

(Patents)

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
United States	11.21	16.31	13.68	12.96	12.58	10.81	15.05	17.81	18.38
Alabama	5.26	16.56	14.33	16.04	8.73	5.59	9.17	12.31	12.42
Alaska	4.44	7.50	1.89	1.67	1.72	0.00	5.71	6.25	7.50
Arizona	7.19	7.24	6.31	5.57	8.95	6.92	7.18	16.74	22.27
Arkansas	4.61	15.15	16.88	14.13	12.95	12.00	12.00	13.16	9.82
California	18.08	30.59	25.93	23.69	25.27	18.31	23.27	26.07	27.14
Colorado	7.48	7.65	4.33	5.34	5.46	6.40	8.39	10.97	10.98
Connecticut	8.53	12.47	9.57	9.79	10.99	5.71	10.96	8.46	11.03
Delaware	5.56	4.00	6.58	9.46	5.95	15.00	22.22	15.00	7.50
District of Columbia	6.32	5.33	5.20	6.75	4.80	5.00	4.78	8.21	10.68
Florida	15.47	14.66	13.55	14.91	18.14	13.44	21.03	23.17	25.97
Georgia	7.75	13.08	11.04	10.92	10.99	8.97	14.40	20.23	16.14
Hawaii	4.80	5.45	3.33	3.41	6.45	3.89	3.13	3.89	4.38
Idaho	7.69	2.67	6.45	7.02	6.52	3.08	8.33	7.14	9.57
Illinois	7.95	10.76	10.50	10.28	10.71	12.79	17.13	21.28	20.56
Indiana	9.45	5.38	3.21	4.01	5.26	4.48	10.75	15.00	20.78
Iowa	15.48	26.67	20.57	18.10	14.29	8.46	14.36	11.84	9.65
Kansas	3.57	13.51	8.64	7.33	1.95	2.96	9.20	8.85	8.13
Kentucky	5.69	11.93	6.17	8.18	7.52	6.76	11.14	13.06	13.42
Louisiana	8.14	6.10	13.77	9.01	7.16	9.66	8.00	11.67	11.27
Maine	0.78	1.74	1.74	2.61	3.31	3.33	8.18	8.46	5.00
Maryland	11.66	27.63	20.24	16.76	19.22	13.72	16.33	15.81	19.90
Massachusetts	28.16	38.70	28.11	25.79	25.00	25.88	33.12	41.92	42.16

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Michigan	13.66	17.38	12.73	14.40	13.28	14.66	13.43	14.57	17.77
Minnesota	7.39	9.15	6.81	7.24	6.19	5.47	6.17	7.90	7.18
Mississippi	4.12	7.37	6.67	5.42	7.58	10.53	7.37	8.50	6.67
Missouri	7.91	16.00	9.98	8.93	8.19	4.91	9.05	11.94	10.44
Montana	4.04	8.00	4.94	2.80	4.17	7.50	5.38	3.08	5.38
Nebraska	10.53	13.75	10.82	10.38	9.89	11.67	10.48	13.16	10.20
Nevada	2.06	4.44	3.17	6.56	2.50	3.57	8.57	16.15	8.89
New Hampshire	2.75	8.42	7.44	7.26	15.70	6.67	12.50	26.88	18.82
New Jersey	10.88	18.65	14.36	12.48	13.60	12.67	13.97	15.67	21.37
New Mexico	12.28	37.50	19.57	29.89	17.39	7.73	9.13	16.09	20.95
New York	12.29	17.07	14.92	13.90	13.10	11.82	17.34	18.08	19.54
North Carolina	12.05	14.56	15.64	13.57	12.12	9.80	12.60	14.04	16.29
North Dakota	6.74	6.67	6.06	4.11	4.12	3.33	7.27	11.00	12.94
Ohio	8.79	13.33	10.86	9.58	10.38	7.53	17.72	23.70	19.76
Oklahoma	6.04	7.39	5.76	2.49	9.19	5.33	10.91	5.81	7.59
Oregon	9.54	8.36	8.01	4.40	5.68	7.58	6.29	8.97	5.98
Pennsylvania	12.06	17.64	15.89	11.20	9.96	9.32	13.63	18.40	16.40
Rhode Island	7.74	12.94	17.37	10.63	8.54	10.00	12.50	12.35	14.19
South Carolina	4.17	3.92	4.45	9.96	6.38	4.29	7.78	14.05	15.00
South Dakota	2.99	1.54	3.28	0.00	3.03	4.29	4.29	3.75	11.43
Tennessee	5.40	6.82	9.34	5.89	6.73	5.00	8.17	12.62	10.26
Texas	9.55	12.83	11.53	10.51	11.71	8.98	11.09	13.10	14.56
Utah	13.29	15.92	15.18	9.16	10.23	11.18	20.29	23.59	27.16
Vermont	3.70	6.00	3.06	4.90	5.00	8.89	13.33	13.00	4.44
Virginia	8.72	10.00	5.52	7.28	6.16	6.02	11.79	11.90	9.56
Washington	10.31	13.20	9.92	7.25	6.14	7.46	11.94	12.34	15.89

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
West Virginia	1.72	1.82	3.54	10.92	1.52	1.67	7.69	6.88	8.97
Wisconsin	12.67	17.58	15.51	17.80	18.01	16.10	21.94	23.19	27.68
Wyoming	7.14	7.27	1.75	8.16	8.16	4.00	16.00	30.00	28.89
Puerto Rico	0.00	0.00	5.77	5.38	1.57	1.54	1.33	4.44	1.33

Note(s):
Patents were fractionally allocated among regions/countries/economies based on the proportion of residences of all named inventors. The total for the United States reported here includes Puerto Rico, as well as patents for which the location could not be determined; Employed SEH doctorate holders are classified by employment location.

Source(s):
Science-Metrix, special tabulations (2017) from U.S. Patent and Trademark Office data in PatentsView; National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients (various years), data as of August 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Patents awarded to academic institutions

State	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
United States	2,280	2,658	3,433	3,628	3,308	3,444	3,463	3,480	3,220	2,883
Alabama	13	24	40	53	38	43	41	51	50	29
Alaska	3	2	1	3	3	1	2	1	2	1
Arizona	23	21	17	21	17	20	26	19	26	22
Arkansas	6	7	8	25	17	27	16	26	17	19
California	397	448	633	647	643	652	677	676	656	622
Colorado	26	33	36	31	15	21	21	27	21	18
Connecticut	19	33	45	53	45	40	40	41	30	41
Delaware	5	4	6	2	4	5	9	7	9	6
District of Columbia	15	12	14	12	22	13	14	16	10	5
Florida	78	101	104	96	117	105	112	123	127	127
Georgia	46	43	75	70	79	70	94	76	64	71
Hawaii	6	6	7	6	10	5	7	6	4	6
Idaho	7	6	5	2	6	6	5	8	3	2
Illinois	44	81	85	99	69	111	100	108	131	85
Indiana	22	43	44	25	23	18	29	23	25	38
Iowa	51	48	77	80	50	65	44	61	42	27
Kansas	16	8	13	25	13	19	33	17	21	7
Kentucky	16	17	22	34	25	20	33	27	21	24
Louisiana	23	28	49	18	29	46	34	31	18	19
Maine	0	1	0	2	3	2	2	3	7	0
Maryland	48	69	105	134	101	118	114	114	129	100
Massachusetts	304	321	419	447	339	362	341	367	338	313
Michigan	73	106	121	126	127	111	113	128	116	117

State Indicators

State	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Minnesota	31	32	41	43	43	36	41	39	43	38
Mississippi	10	8	7	14	15	13	12	11	11	19
Missouri	27	45	65	80	44	56	44	50	46	32
Montana	3	4	2	8	2	4	0	3	0	5
Nebraska	28	24	25	22	27	21	24	19	21	15
Nevada	2	2	1	4	3	4	3	8	3	2
New Hampshire	4	3	9	8	10	9	11	9	12	10
New Jersey	41	53	75	83	74	78	84	71	61	56
New Mexico	9	28	39	60	65	54	69	84	60	46
New York	204	240	336	321	321	301	289	294	238	214
North Carolina	93	91	95	115	100	135	104	125	108	102
North Dakota	5	6	3	5	4	4	4	3	4	3
Ohio	77	84	98	122	103	106	111	99	108	83
Oklahoma	11	16	12	17	13	16	11	7	11	11
Oregon	22	25	26	23	26	25	22	16	21	17
Pennsylvania	122	142	204	217	188	211	197	171	155	125
Rhode Island	8	13	19	22	26	29	15	22	28	20
South Carolina	11	13	14	10	10	13	30	28	19	19
South Dakota	1	2	*	1	1	2	0	0	1	*
Tennessee	15	25	26	29	38	44	50	30	30	24
Texas	134	128	155	152	153	157	168	155	172	160
Utah	42	40	44	39	29	46	38	25	32	24
Vermont	2	4	2	6	1	3	7	5	3	4
Virginia	43	47	50	60	56	36	36	51	30	30
Washington	28	54	60	66	83	62	49	48	39	42
West Virginia	1	2	1	2	0	4	5	13	7	0

State Indicators

State	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Wisconsin	67	67	90	87	68	78	86	89	70	75
Wyoming	1	4	7	4	0	1	6	4	6	5
Puerto Rico	1	0	1	0	1	6	2	7	1	0

Science and Engineering Indicators 2018

State Indicators

Patents awarded to academic institutions

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
United States	3,527	3,223	3,032	3,283	4,545	4,434	5,062	5,644	6,115	6,193
Alabama	29	35	19	33	33	29	32	48	63	59
Alaska	1	2	0	3	4	10	2	5	3	6
Arizona	34	31	27	21	28	42	52	77	80	98
Arkansas	25	22	18	15	24	19	33	25	32	28
California	698	618	540	541	740	711	846	881	946	996
Colorado	29	28	32	29	47	47	51	68	86	73
Connecticut	49	39	28	40	57	53	53	44	65	59
Delaware	5	10	12	16	20	14	16	15	15	9
District of Columbia	11	10	10	17	11	22	30	23	32	39
Florida	164	148	125	160	225	238	284	285	294	274
Georgia	81	80	70	75	121	129	141	174	168	138
Hawaii	10	7	7	6	5	2	3	7	4	7
Idaho	9	1	4	6	10	8	7	10	11	11
Illinois	122	127	142	157	209	226	233	249	270	292
Indiana	32	44	26	51	72	63	67	105	144	160
Iowa	50	52	33	52	56	38	46	45	51	41
Kansas	5	8	8	19	23	10	30	23	42	26
Kentucky	27	23	23	28	39	39	47	47	59	51
Louisiana	24	23	28	20	24	25	29	35	29	40
Maine	4	3	4	3	9	8	4	11	6	7
Maryland	138	100	107	97	129	127	142	136	207	203
Massachusetts	358	353	339	344	467	463	555	654	650	704
Michigan	124	111	129	119	137	142	156	153	194	191

State Indicators

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Minnesota	35	34	29	34	37	39	39	49	47	47
Mississippi	15	13	20	4	14	11	7	17	8	13
Missouri	46	39	28	35	57	67	70	80	78	71
Montana	5	7	9	5	7	5	5	4	5	7
Nebraska	18	17	21	10	22	13	20	25	26	25
Nevada	4	8	5	11	12	20	15	21	13	12
New Hampshire	19	18	10	13	20	23	29	43	29	32
New Jersey	82	71	76	65	88	110	112	105	109	140
New Mexico	36	12	17	15	21	34	43	37	51	44
New York	285	263	260	297	411	374	365	443	549	515
North Carolina	120	103	99	88	131	119	146	153	147	180
North Dakota	4	1	3	9	8	13	9	11	12	11
Ohio	105	80	73	97	179	186	190	256	228	242
Oklahoma	26	28	16	25	36	24	23	18	21	22
Oregon	20	20	25	26	22	38	34	35	38	32
Pennsylvania	157	129	137	144	218	184	247	298	305	310
Rhode Island	17	12	17	16	20	22	19	21	22	22
South Carolina	22	15	15	8	28	27	43	52	59	48
South Dakota	2	1	3	0	3	6	2	3	5	8
Tennessee	37	30	27	33	49	58	52	77	85	59
Texas	194	172	158	174	214	213	253	262	285	316
Utah	36	46	38	51	71	60	112	92	104	110
Vermont	5	7	8	6	12	9	5	13	12	6
Virginia	47	62	50	60	99	71	78	100	108	87
Washington	43	45	53	54	86	62	83	95	92	116
West Virginia	2	2	2	8	10	4	8	11	12	13

State Indicators

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Wisconsin	103	95	95	119	147	149	164	167	164	173
Wyoming	4	10	2	8	8	9	9	15	17	13
Puerto Rico	2	2	2	1	2	1	5	8	8	2

Science and Engineering Indicators 2018

State Indicators

Patents awarded to academic institutions

State	2016
United States	6,645
Alabama	53
Alaska	5
Arizona	114
Arkansas	37
California	1,067
Colorado	98
Connecticut	72
Delaware	4
District of Columbia	53
Florida	306
Georgia	138
Hawaii	4
Idaho	3
Illinois	285
Indiana	181
Iowa	35
Kansas	33
Kentucky	63
Louisiana	41
Maine	7
Maryland	238
Massachusetts	747
Michigan	216

State Indicators

State	2016
Minnesota	58
Mississippi	12
Missouri	89
Montana	10
Nebraska	28
Nevada	14
New Hampshire	27
New Jersey	141
New Mexico	61
New York	541
North Carolina	198
North Dakota	9
Ohio	255
Oklahoma	24
Oregon	45
Pennsylvania	322
Rhode Island	30
South Carolina	51
South Dakota	6
Tennessee	67
Texas	312
Utah	111
Vermont	17
Virginia	94
Washington	106
West Virginia	12

State Indicators

State	2016
Wisconsin	176
Wyoming	14
Puerto Rico	6
Science and Engineering Indicators 2018	

State Indicators

SEH doctorate holders in academia

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
United States	237,190	222,450	251,740	268,570	280,340	280,400	302,000	316,900	336,950
Alabama	4,560	3,200	3,000	3,180	3,320	3,400	3,600	3,900	4,750
Alaska	450	400	530	600	580	700	700	800	800
Arizona	2,920	2,900	3,170	3,410	3,800	3,900	3,900	4,600	4,400
Arkansas	1,520	1,650	1,600	1,840	1,930	1,500	2,000	1,900	2,850
California	24,780	21,150	25,140	28,530	27,620	29,500	31,800	33,800	36,700
Colorado	4,410	4,050	4,850	5,060	5,310	5,000	5,600	6,200	6,650
Connecticut	3,870	4,250	4,180	4,190	4,460	4,900	5,200	5,200	5,350
Delaware	720	500	760	740	840	800	900	1,000	1,200
District of Columbia	1,900	2,250	2,500	2,370	2,290	2,000	2,300	2,800	3,650
Florida	6,530	6,550	7,750	8,250	9,040	9,300	10,700	12,300	10,550
Georgia	5,550	5,350	6,340	6,960	7,370	7,800	8,400	8,600	8,550
Hawaii	1,250	1,100	1,500	1,760	1,550	1,800	1,600	1,800	1,600
Idaho	780	750	930	1,140	1,380	1,300	1,200	1,400	1,150
Illinois	10,190	9,200	10,570	10,510	11,390	11,100	12,200	11,700	14,200
Indiana	4,550	4,650	5,610	5,740	6,080	5,800	6,700	7,000	7,700
Iowa	3,100	3,000	3,160	3,370	3,500	3,900	3,900	3,800	4,250
Kansas	2,240	1,850	2,200	2,320	2,560	2,700	2,500	2,600	3,200
Kentucky	2,990	2,850	3,240	3,300	3,590	3,400	3,500	3,600	3,800
Louisiana	3,440	2,950	3,340	3,440	3,350	2,900	3,000	3,000	3,550
Maine	1,290	1,150	1,150	1,150	1,210	1,200	1,100	1,300	1,400
Maryland	5,920	4,850	5,830	6,800	7,180	7,800	7,900	8,600	10,200
Massachusetts	11,400	11,550	12,880	14,230	14,320	13,100	14,100	15,600	16,700
Michigan	7,760	7,250	8,720	8,890	9,340	8,800	10,200	10,500	10,750

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Minnesota	4,330	4,700	5,290	5,390	5,650	5,300	6,000	6,200	6,550
Mississippi	1,940	1,900	1,950	2,030	1,980	1,900	1,900	2,000	1,950
Missouri	5,690	5,000	5,610	5,600	5,620	5,700	6,300	6,700	6,800
Montana	990	1,000	810	1,070	1,200	1,200	1,300	1,300	1,300
Nebraska	2,280	1,600	1,940	1,830	1,820	1,800	2,100	1,900	2,450
Nevada	970	900	1,260	1,220	1,600	1,400	1,400	1,300	1,350
New Hampshire	1,090	950	1,210	1,240	1,210	1,500	1,600	1,600	1,700
New Jersey	4,870	4,450	5,430	5,690	6,030	6,000	6,300	6,700	6,550
New Mexico	2,280	1,600	2,760	2,810	2,070	2,200	2,300	2,300	2,100
New York	19,530	18,800	20,180	21,150	21,760	22,000	23,700	24,500	26,350
North Carolina	7,550	7,900	8,630	9,210	9,900	10,100	10,400	10,900	11,050
North Dakota	890	750	660	730	970	900	1,100	1,000	850
Ohio	9,560	9,150	9,760	10,330	10,120	9,700	10,100	10,800	12,250
Oklahoma	2,650	2,300	2,780	2,810	2,830	3,000	3,300	3,100	2,900
Oregon	2,620	2,750	3,120	3,640	3,520	3,300	3,500	3,900	5,350
Pennsylvania	11,770	12,300	13,280	15,270	15,770	14,700	16,000	16,200	18,900
Rhode Island	1,680	1,700	1,670	2,070	1,990	1,700	1,600	1,700	1,550
South Carolina	3,120	2,550	2,920	2,810	3,450	3,500	3,600	3,700	3,200
South Dakota	670	650	610	620	660	700	700	800	700
Tennessee	4,630	4,250	4,710	5,090	5,500	5,400	6,000	6,100	5,750
Texas	13,410	11,850	13,620	14,750	16,570	17,600	19,300	20,000	21,700
Utah	3,010	2,450	3,030	2,730	3,520	3,400	3,500	3,900	4,050
Vermont	1,080	1,000	980	1,020	1,000	900	900	1,000	1,350
Virginia	5,390	6,000	6,520	7,010	7,630	8,300	8,400	8,400	9,100
Washington	5,240	5,000	6,250	6,620	7,000	7,100	7,200	7,700	7,300
West Virginia	1,160	1,100	1,130	1,190	1,320	1,200	1,300	1,600	1,450

State Indicators

State	1997	1999	2001	2003	2006	2008	2010	2013	2015
Wisconsin	5,290	4,950	5,030	5,000	5,720	5,900	6,700	7,200	6,250
Wyoming	560	550	570	490	490	500	500	500	450
Puerto Rico	640	850	1,040	1,300	1,270	1,300	1,500	1,800	1,500

Science and Engineering Indicators 2018

State Indicators

S-51 Patents Awarded per 1,000 Individuals in Science and Engineering Occupations

Description

This indicator represents state patent activity normalized to the size of its S&E workforce, specifically employees in S&E occupations. People in S&E occupations include engineers; computer, mathematical, life, physical, and social scientists; and postsecondary teachers in these fields. Managers, technicians, elementary and secondary schoolteachers, and medical personnel are not included.

Although the U.S. Patent and Trademark Office grants several types of patents, this indicator covers only utility patents, commonly known as patents for inventions. Utility patents can be granted for any new, nonobvious, useful, or improved method, process, machine, device, manufactured item, or chemical compound and represent a key measure of intellectual property. Patents were fractionally allocated among states based on the proportion of residences of all named inventors.

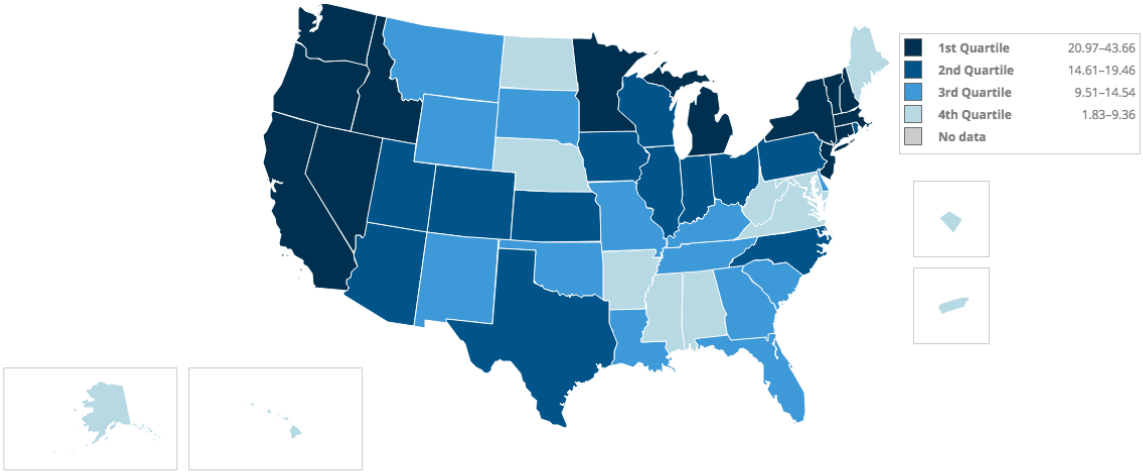
Data on individuals in S&E occupations come from the Bureau of Labor Statistics (BLS) Occupational Employment Statistics Survey, a survey of workplaces that assigns workers to a state based on where they work. Estimates are developed by BLS from data provided by state workforce agencies and do not include self-employed persons. Situations in which workers live in one state and work in another introduce some imprecision into the calculation of this indicator. Estimates for states with smaller populations are generally less precise than estimates for states with larger populations.

Data sources: Science-Metrix, special tabulation from U.S. Patent and Trademark Office data in PatentsView; U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics Survey.

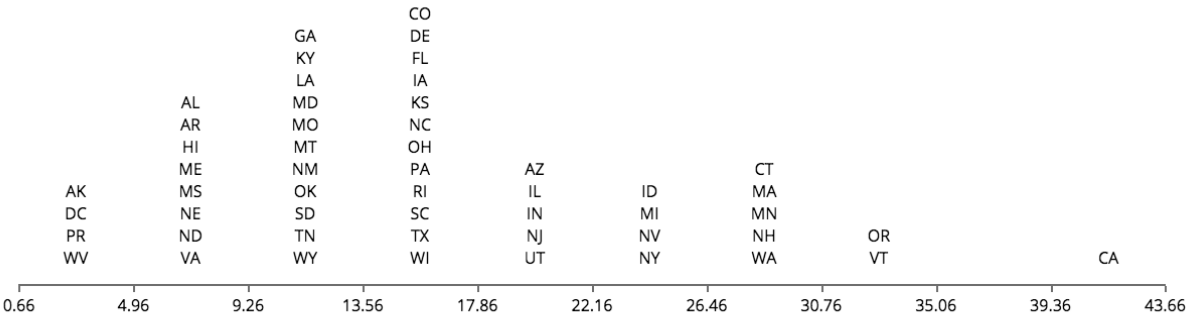
State Indicators

S-51 Patents Awarded per 1,000 Individuals in Science and Engineering Occupations

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

Patents Awarded per 1,000 Individuals in Science and Engineering Occupations

(Patents)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	17.66	16.23	14.21	16.54	14.17	13.36	14.17	19.32	18.66	20.19
Alabama	7.22	6.21	5.10	5.57	4.39	3.83	4.33	6.63	5.22	5.94
Alaska	3.77	4.42	3.47	3.26	1.50	1.43	2.64	1.81	1.91	1.91
Arizona	16.97	16.16	14.88	17.00	15.17	15.17	15.00	18.83	17.32	18.64
Arkansas	7.31	5.50	4.95	5.79	4.04	3.79	3.02	4.90	4.67	6.03
California	29.10	27.68	24.96	NA	25.95	24.22	25.89	35.92	35.06	38.96
Colorado	16.59	16.48	14.66	15.84	12.55	10.95	11.55	14.98	14.38	16.27
Connecticut	20.37	18.46	17.86	20.89	17.19	16.38	17.64	24.44	25.03	26.88
Delaware	20.09	19.27	18.32	17.03	15.22	13.66	14.19	17.97	19.44	19.07
District of Columbia	0.98	1.20	0.88	1.08	1.14	0.98	0.93	1.35	1.55	1.67
Florida	11.39	10.26	9.34	10.41	9.44	8.11	8.72	12.11	12.47	14.50
Georgia	9.28	9.53	8.78	10.81	9.48	9.08	NA	13.08	13.16	14.26
Hawaii	4.54	4.48	2.92	4.59	3.74	4.30	3.84	6.36	4.63	5.59
Idaho	81.26	77.83	63.65	NA	55.36	49.85	40.01	45.17	40.12	36.82
Illinois	15.55	14.35	12.28	14.42	12.73	12.10	12.99	18.38	18.57	19.46
Indiana	17.68	15.85	13.85	14.85	13.71	11.10	12.20	16.58	15.56	18.51
Iowa	17.47	16.00	13.82	15.16	13.12	11.69	13.79	16.90	16.49	16.88
Kansas	8.14	8.30	7.26	9.87	8.25	7.48	7.63	12.52	13.29	19.24
Kentucky	9.60	9.47	7.68	9.29	8.81	NA	7.15	10.99	9.10	10.30
Louisiana	9.45	8.40	6.63	8.16	6.79	6.13	6.07	6.81	7.44	7.82
Maine	9.92	9.08	9.74	9.03	7.08	6.88	6.42	11.56	10.01	11.33
Maryland	9.62	8.39	7.43	8.69	7.41	7.09	7.41	9.40	8.67	9.01
Massachusetts	21.18	19.21	16.03	19.98	17.10	16.14	17.05	23.64	23.25	24.75

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	21.21	19.82	17.31	17.86	14.81	14.53	15.76	21.51	20.82	22.93
Minnesota	25.09	22.98	19.82	23.40	19.79	19.03	19.45	28.58	29.58	29.76
Mississippi	6.99	5.83	4.98	4.98	5.49	3.85	5.05	6.56	6.66	6.35
Missouri	10.01	8.38	6.94	7.62	6.70	5.84	6.81	9.44	8.23	9.51
Montana	10.66	10.31	8.21	9.22	8.08	NA	5.63	6.91	6.62	8.27
Nebraska	5.89	6.05	5.55	5.54	6.52	5.94	6.04	6.82	6.18	8.24
Nevada	17.11	16.90	15.49	14.18	13.48	13.74	12.34	19.86	19.53	27.67
New Hampshire	28.68	24.94	18.52	22.15	19.02	16.57	17.97	25.27	25.63	25.42
New Jersey	21.49	17.02	14.40	17.64	14.26	13.46	14.24	20.69	20.93	23.21
New Mexico	11.34	11.50	8.15	11.33	8.61	8.25	8.39	11.96	11.15	12.43
New York	22.81	20.53	16.23	18.18	15.36	14.94	16.48	NA	22.27	23.55
North Carolina	14.08	13.07	11.91	14.09	12.07	11.86	12.69	17.00	16.51	17.77
North Dakota	6.88	6.62	8.38	7.26	7.76	6.67	8.06	9.41	7.54	7.39
Ohio	17.85	15.93	12.82	14.09	11.40	10.76	11.22	16.42	15.21	NA
Oklahoma	11.68	9.74	8.76	10.83	9.06	8.45	9.01	11.70	10.36	9.24
Oregon	27.39	26.63	26.29	32.13	27.81	25.76	25.58	NA	NA	27.36
Pennsylvania	17.18	14.58	11.40	13.29	11.41	10.78	NA	NA	NA	NA
Rhode Island	14.83	15.36	14.27	15.28	13.59	11.55	11.42	14.06	14.29	14.97
South Carolina	11.84	10.25	9.06	10.76	7.71	6.68	8.04	9.19	10.70	13.08
South Dakota	8.85	8.50	7.19	7.31	5.02	4.38	3.98	6.64	8.14	10.00
Tennessee	12.61	10.57	8.83	9.89	8.75	7.89	9.21	12.72	12.52	11.51
Texas	16.31	15.35	13.50	15.25	12.96	12.25	12.47	16.62	16.01	16.81
Utah	14.04	15.16	12.28	14.07	12.45	12.19	14.76	19.79	20.31	20.72
Vermont	38.53	32.29	28.43	34.04	35.50	34.79	34.19	50.67	39.16	38.23
Virginia	5.29	4.66	4.06	4.37	3.94	4.02	4.09	6.26	5.93	6.19
Washington	15.06	14.19	14.13	18.88	17.31	NA	21.83	28.14	24.13	NA

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	8.45	6.32	5.67	5.95	6.10	4.47	5.87	7.03	5.52	6.68
Wisconsin	18.87	17.42	15.76	17.42	14.00	13.24	14.28	18.43	17.32	17.52
Wyoming	11.09	7.18	6.26	6.15	6.41	4.29	6.73	9.69	7.46	11.83
Puerto Rico	1.35	0.87	1.19	1.13	1.27	0.74	0.66	1.25	1.24	1.70

NA not available

Note(s):
Patents were fractionally allocated among regions/countries/economies based on the proportion of residences of all named inventors. The total for the United States reported here includes Puerto Rico, as well as patents for which the location could not be determined; Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
Science-Metrix, special tabulations (2017) from U.S. Patent and Trademark Office data in PatentsView; U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

Recommended Citation: National Science Board. 2018. "Patents Awarded per 1,000 Individuals in Science and Engineering Occupations." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/patents-per-1000-se-occupation-holders

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Patents Awarded per 1,000 Individuals in Science and Engineering Occupations

(Patents)

State	2013	2014	2015	2016
United States	21.69	22.80	21.50	21.23
Alabama	6.74	6.69	6.64	7.04
Alaska	3.35	3.62	2.87	4.04
Arizona	17.89	19.51	18.68	19.39
Arkansas	5.38	6.49	6.75	7.08
California	42.48	45.98	NA	43.66
Colorado	18.06	19.45	17.90	17.38
Connecticut	27.75	29.00	27.36	28.51
Delaware	21.74	20.41	16.97	14.10
District of Columbia	1.94	2.24	1.86	1.83
Florida	15.50	16.14	14.62	14.54
Georgia	15.43	15.65	NA	12.67
Hawaii	5.72	5.93	5.65	5.97
Idaho	38.53	38.62	30.93	26.30
Illinois	20.30	21.83	20.49	19.01
Indiana	18.88	20.03	19.77	19.46
Iowa	18.00	18.69	18.98	17.26
Kansas	19.81	18.87	17.22	14.61
Kentucky	10.37	11.94	11.94	12.76
Louisiana	8.43	8.65	8.13	9.51
Maine	12.05	10.30	9.57	8.45
Maryland	9.31	9.73	9.47	9.36
Massachusetts	28.19	29.23	29.20	28.56

State Indicators

State	2013	2014	2015	2016
Michigan	24.35	23.99	24.11	24.23
Minnesota	32.01	32.68	30.29	28.31
Mississippi	6.62	6.32	5.27	5.89
Missouri	11.39	11.81	9.95	10.41
Montana	7.77	7.27	8.52	9.91
Nebraska	8.33	9.77	8.35	8.42
Nevada	31.25	30.42	26.13	26.07
New Hampshire	29.80	32.13	28.99	30.59
New Jersey	25.39	26.32	23.31	20.97
New Mexico	13.07	12.05	11.92	12.73
New York	25.16	25.11	22.73	23.00
North Carolina	17.90	19.02	18.15	17.80
North Dakota	8.71	7.63	9.10	7.70
Ohio	17.07	17.13	15.32	14.69
Oklahoma	10.66	10.89	10.01	9.58
Oregon	27.57	29.84	27.31	31.44
Pennsylvania	16.24	16.39	15.07	14.67
Rhode Island	14.75	16.50	14.34	15.32
South Carolina	13.13	13.77	13.54	14.05
South Dakota	11.67	9.76	7.79	9.96
Tennessee	NA	12.71	11.38	11.87
Texas	17.83	18.34	17.48	17.67
Utah	21.37	22.02	21.76	19.35
Vermont	41.41	41.64	32.53	31.44
Virginia	6.88	7.74	7.83	7.42
Washington	27.70	30.83	29.08	29.13

State Indicators

State	2013	2014	2015	2016
West Virginia	7.70	6.81	6.44	4.92
Wisconsin	19.06	18.63	17.48	17.46
Wyoming	NA	11.49	11.47	12.29
Puerto Rico	0.97	1.76	1.44	1.90

NA not available

Note(s):
Patents were fractionally allocated among regions/countries/economies based on the proportion of residences of all named inventors. The total for the United States reported here includes Puerto Rico, as well as patents for which the location could not be determined; Occupational Employment Statistics (OES) estimates for 2004 and earlier are based on November data; estimates for the remaining years are based on May data. The total for the United States includes states with suppressed data and does not include territories.

Source(s):
Science-Metrix, special tabulations (2017) from U.S. Patent and Trademark Office data in PatentsView; U.S. Department of Labor, Bureau of Labor Statistics, special tabulations of the Occupational Employment Statistics Survey (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Patents awarded

State	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
United States	60,938	61,519	80,024	83,645	84,778	87,379	86,659	87,606	83,971	74,360
Alabama	280	303	370	395	349	393	414	407	372	320
Alaska	38	47	65	55	54	54	50	40	48	39
Arizona	1,064	1,050	1,504	1,494	1,600	1,534	1,576	1,563	1,590	1,435
Arkansas	116	118	142	186	206	183	184	156	133	122
California	10,429	11,249	15,742	16,700	17,455	18,612	18,772	19,675	19,469	17,887
Colorado	1,171	1,219	1,744	1,836	1,836	1,929	1,949	2,059	2,069	1,849
Connecticut	1,442	1,392	1,800	1,791	1,797	1,858	1,786	1,658	1,548	1,499
Delaware	447	360	387	400	384	389	368	349	355	330
District of Columbia	43	50	67	53	59	66	64	54	74	56
Florida	2,069	2,135	2,645	2,604	2,600	2,614	2,387	2,517	2,412	2,252
Georgia	956	967	1,284	1,321	1,315	1,375	1,296	1,338	1,327	1,208
Hawaii	74	74	83	76	80	91	74	73	79	51
Idaho	363	570	855	1,227	1,565	1,694	1,852	1,800	1,794	1,520
Illinois	3,110	2,975	3,695	3,720	3,784	3,623	3,418	3,284	3,143	2,722
Indiana	1,297	1,212	1,365	1,439	1,456	1,361	1,415	1,386	1,283	1,107
Iowa	437	401	650	740	586	728	611	652	641	557
Kansas	290	261	345	409	391	322	434	423	437	375
Kentucky	329	304	361	462	459	471	451	434	414	342
Louisiana	403	387	495	481	528	525	448	396	357	272
Maine	109	91	131	123	133	144	150	149	136	151
Maryland	1,079	1,164	1,440	1,510	1,373	1,460	1,460	1,436	1,329	1,190
Massachusetts	2,447	2,561	3,435	3,513	3,461	3,684	3,600	3,912	3,669	3,096
Michigan	3,165	2,828	3,496	3,680	3,708	3,821	3,872	3,881	3,738	3,326

State Indicators

State	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Minnesota	1,781	1,833	2,455	2,635	2,704	2,631	2,738	2,938	2,725	2,397
Mississippi	141	157	170	196	188	162	153	155	134	117
Missouri	663	746	903	954	826	852	854	842	769	640
Montana	107	86	132	126	120	146	135	122	120	98
Nebraska	171	159	205	191	236	218	205	181	192	175
Nevada	195	178	268	302	308	317	307	382	413	378
New Hampshire	427	436	578	628	612	606	609	672	639	497
New Jersey	3,052	3,157	3,728	3,966	3,881	3,865	3,747	3,469	2,927	2,509
New Mexico	227	260	337	339	327	371	367	381	368	265
New York	5,098	4,758	6,242	6,040	6,035	6,262	6,239	6,214	5,812	4,691
North Carolina	1,183	1,261	1,598	1,720	1,816	1,914	1,834	1,865	1,783	1,599
North Dakota	61	43	63	71	87	96	72	58	56	76
Ohio	2,609	2,706	3,257	3,337	3,155	3,261	3,323	3,161	2,886	2,320
Oklahoma	473	415	485	491	536	571	465	518	451	406
Oregon	783	790	1,190	1,094	1,183	1,280	1,444	1,677	1,726	1,631
Pennsylvania	2,915	2,718	3,366	3,738	3,627	3,492	3,305	3,188	2,850	2,329
Rhode Island	245	252	290	262	313	280	269	278	297	258
South Carolina	482	425	562	559	533	565	606	577	521	457
South Dakota	43	50	51	66	81	75	76	81	81	68
Tennessee	633	643	783	856	788	826	818	803	695	586
Texas	4,162	4,120	5,563	6,021	6,267	6,352	5,973	5,957	5,905	5,260
Utah	538	615	672	681	694	712	682	640	686	554
Vermont	253	276	329	343	378	455	487	440	404	363
Virginia	873	834	1,073	1,048	1,129	1,124	1,147	1,108	1,088	960
Washington	1,167	1,371	1,796	1,840	1,863	1,959	2,090	2,263	2,225	2,274
West Virginia	119	139	185	150	144	148	149	137	101	91

State Indicators

State	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Wisconsin	1,295	1,311	1,568	1,686	1,679	1,835	1,866	1,761	1,633	1,475
Wyoming	31	47	48	55	56	52	47	68	50	46
Puerto Rico	24	9	20	24	26	12	13	27	18	25

Science and Engineering Indicators 2018

State Indicators

Patents awarded

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
United States	89,433	79,222	77,212	82,000	107,232	108,118	120,488	133,158	144,049	140,531
Alabama	368	306	263	297	454	367	433	517	498	486
Alaska	35	18	19	39	28	30	31	51	54	43
Arizona	1,668	1,553	1,549	1,542	1,937	1,998	2,179	2,208	2,493	2,497
Arkansas	144	115	111	95	143	137	178	165	208	225
California	22,182	19,557	19,177	20,592	27,254	28,064	32,017	36,086	40,505	40,088
Colorado	2,118	1,745	1,610	1,711	2,146	2,082	2,424	2,782	3,125	2,996
Connecticut	1,658	1,380	1,315	1,396	1,833	1,916	2,109	2,188	2,291	2,175
Delaware	367	337	305	315	376	436	447	479	466	386
District of Columbia	69	72	62	57	81	97	106	127	154	130
Florida	2,564	2,304	2,013	2,155	2,902	3,055	3,600	3,881	4,155	3,973
Georgia	1,475	1,298	1,338	1,410	1,900	1,946	2,122	2,482	2,660	2,448
Hawaii	87	70	81	73	124	93	117	121	124	119
Idaho	1,659	1,347	1,162	941	1,090	1,041	930	996	1,022	876
Illinois	3,209	2,867	2,715	2,872	3,623	3,796	4,285	4,606	5,139	5,027
Indiana	1,190	1,139	1,008	1,107	1,504	1,457	1,751	1,904	2,083	2,062
Iowa	662	596	540	649	746	807	860	944	999	1,002
Kansas	480	413	406	429	613	685	980	1,015	946	924
Kentucky	415	432	413	366	536	473	534	559	649	671
Louisiana	328	261	256	265	301	318	359	394	425	394
Maine	144	113	117	115	202	175	203	227	200	191
Maryland	1,386	1,205	1,185	1,257	1,567	1,500	1,618	1,739	1,850	1,836
Massachusetts	3,970	3,515	3,508	3,711	4,921	5,131	5,672	6,421	6,737	6,763
Michigan	3,725	3,141	2,968	2,959	3,798	3,922	4,555	5,059	5,270	5,500

State Indicators

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Minnesota	2,947	2,569	2,558	2,607	3,575	3,855	3,919	4,276	4,582	4,350
Mississippi	124	140	105	131	156	156	150	161	157	134
Missouri	735	685	616	710	966	880	1,043	1,204	1,263	1,097
Montana	120	107	91	80	101	99	127	121	113	139
Nebraska	180	205	189	192	211	209	286	304	354	317
Nevada	382	363	375	340	533	554	747	839	818	737
New Hampshire	613	541	483	549	738	750	736	848	910	849
New Jersey	3,113	2,654	2,665	2,786	3,836	3,814	4,213	4,690	4,955	4,509
New Mexico	349	288	285	310	432	396	439	456	436	447
New York	5,579	4,955	4,878	5,200	6,952	6,914	7,572	8,397	8,756	8,386
North Carolina	1,955	1,725	1,822	2,017	2,635	2,673	2,984	3,114	3,444	3,398
North Dakota	68	75	63	80	104	91	97	109	99	118
Ohio	2,610	2,238	2,220	2,334	3,216	3,166	3,396	3,721	3,765	3,579
Oklahoma	550	466	413	412	517	488	466	553	576	552
Oregon	2,073	1,888	1,805	1,781	2,036	1,959	2,073	2,179	2,401	2,358
Pennsylvania	2,856	2,497	2,448	2,647	3,332	3,223	3,488	3,961	4,076	3,846
Rhode Island	276	250	209	207	256	278	302	306	350	309
South Carolina	573	417	386	461	517	653	826	855	927	926
South Dakota	74	58	52	46	74	96	120	149	129	108
Tennessee	663	620	574	635	914	972	919	1,004	1,102	1,011
Texas	6,233	5,719	5,683	5,860	7,503	7,508	8,303	9,174	9,922	9,851
Utah	699	639	641	757	1,006	1,043	1,134	1,239	1,383	1,407
Vermont	435	453	430	437	642	513	492	535	553	446
Virginia	1,099	1,003	1,042	1,079	1,602	1,588	1,697	1,900	2,108	2,121
Washington	3,243	3,183	3,479	4,298	5,240	4,748	5,366	5,808	6,433	6,373
West Virginia	102	101	76	96	120	101	133	150	137	132

State Indicators

State	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Wisconsin	1,687	1,391	1,346	1,440	1,829	1,772	1,805	2,024	2,097	2,058
Wyoming	47	52	38	60	80	63	103	101	104	103
Puerto Rico	27	30	17	15	26	26	37	22	41	33
Science and Engineering Indicators 2018										

State Indicators

Patents awarded

State	2016
United States	143,236
Alabama	510
Alaska	58
Arizona	2,686
Arkansas	235
California	40,694
Colorado	3,048
Connecticut	2,290
Delaware	340
District of Columbia	138
Florida	4,129
Georgia	2,488
Hawaii	130
Idaho	764
Illinois	4,946
Indiana	2,067
Iowa	925
Kansas	835
Kentucky	706
Louisiana	445
Maine	174
Maryland	1,871
Massachusetts	6,940
Michigan	5,769

State Indicators

State	2016
Minnesota	4,229
Mississippi	149
Missouri	1,214
Montana	157
Nebraska	335
Nevada	768
New Hampshire	930
New Jersey	4,278
New Mexico	489
New York	8,709
North Carolina	3,547
North Dakota	108
Ohio	3,522
Oklahoma	521
Oregon	2,801
Pennsylvania	3,848
Rhode Island	337
South Carolina	1,000
South Dakota	141
Tennessee	1,071
Texas	10,007
Utah	1,328
Vermont	421
Virginia	2,044
Washington	6,639
West Virginia	101

State Indicators

State	2016
Wisconsin	2,165
Wyoming	104
Puerto Rico	46
Science and Engineering Indicators 2018	

State Indicators

Individuals in S&E occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	4,961,540	5,174,260	5,233,520	5,407,710	5,591,990	5,781,460	5,785,710	5,549,980	5,794,980	5,968,240
Alabama	56,380	59,880	62,790	66,100	69,650	68,580	68,670	68,450	70,290	72,880
Alaska	10,600	10,870	11,230	10,720	11,990	13,260	14,780	15,430	15,680	16,260
Arizona	92,120	98,400	96,410	98,110	102,380	102,100	102,820	102,870	115,330	116,930
Arkansas	21,340	24,170	24,660	24,860	28,460	29,310	31,420	29,200	29,350	29,530
California	676,180	703,250	716,530	NA	753,570	791,750	795,240	758,830	800,430	821,780
Colorado	124,140	125,510	126,110	133,730	138,990	147,000	148,090	143,210	144,750	149,020
Connecticut	81,380	83,840	83,930	79,380	80,280	80,290	79,160	74,990	76,550	78,450
Delaware	17,370	18,420	18,010	21,550	22,140	22,330	22,200	20,920	22,430	23,440
District of Columbia	54,890	61,460	63,410	64,120	63,150	63,360	61,430	59,870	62,660	63,600
Florida	221,070	235,170	241,000	246,190	244,140	248,200	247,070	239,600	244,970	248,300
Georgia	144,170	139,230	137,580	136,470	136,880	147,380	NA	145,220	147,820	148,830
Hawaii	16,090	17,630	17,460	18,940	18,740	18,830	19,020	19,500	20,100	20,930
Idaho	22,150	23,050	23,880	NA	24,330	23,310	23,520	24,130	25,950	25,260
Illinois	211,230	219,040	221,630	222,470	225,180	224,370	221,170	197,120	204,420	220,170
Indiana	78,410	80,950	79,910	80,110	83,080	90,840	90,750	90,710	93,640	94,620
Iowa	37,320	40,060	40,300	43,670	45,430	46,180	47,080	44,140	48,930	50,950
Kansas	51,970	52,650	51,630	48,620	50,040	54,260	56,200	48,970	51,530	50,930
Kentucky	45,230	43,740	44,530	44,680	49,030	NA	51,200	48,790	51,990	51,830
Louisiana	41,900	42,520	41,030	40,180	38,450	41,790	43,630	44,200	42,760	45,920
Maine	15,020	14,980	15,500	15,950	15,960	17,000	17,910	17,470	17,490	17,910
Maryland	149,250	158,350	160,120	159,470	162,540	167,070	169,540	166,700	173,020	179,550
Massachusetts	184,690	190,960	193,180	198,670	205,610	217,310	217,690	208,160	220,670	229,160
Michigan	182,940	188,580	192,150	208,520	212,040	204,290	187,760	176,570	188,380	198,610

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	117,120	118,590	120,930	125,930	129,840	134,440	134,060	125,100	130,340	131,690
Mississippi	22,190	22,970	23,480	24,910	25,520	27,270	25,940	23,770	23,440	23,640
Missouri	84,150	91,820	92,260	96,420	102,170	105,390	104,310	102,300	106,930	109,650
Montana	11,450	11,640	11,940	13,010	13,240	NA	14,210	14,620	14,960	15,360
Nebraska	30,710	31,760	31,530	32,500	31,420	31,820	31,790	30,930	33,800	34,720
Nevada	22,330	24,440	24,400	26,930	26,920	27,300	27,560	26,840	28,370	27,000
New Hampshire	23,430	25,620	26,840	27,680	28,450	29,150	30,550	29,200	29,260	28,950
New Jersey	161,420	171,990	174,270	176,460	186,120	198,060	195,690	185,360	182,210	181,480
New Mexico	33,600	32,000	32,530	30,800	33,440	34,560	36,950	36,130	35,520	35,310
New York	272,440	283,150	289,010	306,810	322,520	326,510	315,480	NA	310,510	321,480
North Carolina	132,440	136,430	134,290	138,790	142,970	153,680	158,920	155,030	161,880	167,900
North Dakota	8,430	8,460	9,070	9,360	9,660	9,450	9,930	11,050	12,070	13,120
Ohio	177,100	181,180	180,900	185,190	196,390	206,320	207,930	195,840	208,140	NA
Oklahoma	44,360	46,320	46,370	50,770	51,430	48,900	45,730	44,190	47,090	50,420
Oregon	61,230	64,820	62,030	64,520	67,890	70,070	69,630	NA	NA	75,780
Pennsylvania	185,560	195,510	204,270	214,910	218,890	227,170	NA	NA	NA	NA
Rhode Island	18,740	19,330	18,080	18,060	18,400	18,090	18,120	18,210	19,450	20,180
South Carolina	48,740	50,840	50,460	53,230	54,120	57,770	57,370	56,230	61,020	63,170
South Dakota	9,150	9,530	9,460	10,120	11,550	11,870	11,570	11,150	11,790	12,000
Tennessee	63,680	65,730	66,390	67,040	70,820	72,760	68,970	71,850	77,630	79,830
Texas	365,270	384,600	389,550	408,710	441,410	463,850	470,010	451,390	469,080	493,980
Utah	45,570	45,250	45,110	49,690	51,340	52,570	51,270	50,830	51,350	54,720
Vermont	11,420	12,510	12,770	12,780	12,760	12,360	12,780	12,670	13,100	12,870
Virginia	209,280	233,590	236,650	251,720	254,710	259,280	264,090	255,800	267,620	274,280
Washington	150,230	156,780	160,960	171,780	183,900	NA	196,850	186,210	196,760	NA
West Virginia	16,220	15,990	16,040	17,150	16,560	17,000	16,350	17,070	18,300	19,900

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	93,320	93,760	93,590	96,860	99,380	101,680	100,850	99,240	102,320	103,030
Wyoming	6,130	6,960	7,350	7,640	8,110	8,850	8,920	8,260	8,440	8,710
Puerto Rico	19,940	20,600	20,950	23,850	23,630	22,970	22,760	20,850	20,990	21,750

NA not available

Science and Engineering Indicators 2018

State Indicators

Individuals in S&E occupations

State	2013	2014	2015	2016
United States	6,139,220	6,318,580	6,536,860	6,746,600
Alabama	76,650	74,480	73,190	72,480
Alaska	15,210	14,920	14,970	14,340
Arizona	123,410	127,760	133,650	138,560
Arkansas	30,660	32,050	33,350	33,180
California	849,510	880,850	NA	932,020
Colorado	154,020	160,700	167,400	175,370
Connecticut	78,850	79,000	79,490	80,330
Delaware	22,030	22,830	22,750	24,120
District of Columbia	65,300	68,820	69,880	75,520
Florida	250,330	257,450	271,840	284,030
Georgia	160,820	169,940	NA	196,370
Hawaii	21,140	20,900	21,060	21,760
Idaho	25,850	26,460	28,320	29,050
Illinois	226,850	235,380	245,330	260,160
Indiana	100,870	104,000	104,290	106,230
Iowa	52,440	53,440	52,790	53,580
Kansas	51,240	50,120	53,660	57,150
Kentucky	53,920	54,350	56,190	55,340
Louisiana	46,750	49,120	48,440	46,770
Maine	18,840	19,410	19,960	20,580
Maryland	186,780	190,080	193,810	199,860
Massachusetts	227,780	230,480	231,640	242,960
Michigan	207,800	219,630	228,140	238,120

State Indicators

State	2013	2014	2015	2016
Minnesota	133,580	140,190	143,620	149,360
Mississippi	24,320	24,860	25,440	25,280
Missouri	105,730	106,980	110,220	116,670
Montana	15,570	15,540	16,320	15,840
Nebraska	36,480	36,220	37,950	39,780
Nevada	26,850	26,890	28,200	29,460
New Hampshire	28,460	28,320	29,290	30,400
New Jersey	184,720	188,240	193,440	204,000
New Mexico	34,900	36,180	37,510	38,420
New York	333,710	348,740	368,920	378,600
North Carolina	173,960	181,030	187,210	199,300
North Dakota	12,520	12,970	12,960	14,020
Ohio	218,030	219,830	233,570	239,800
Oklahoma	51,900	52,910	55,170	54,380
Oregon	79,040	80,470	86,350	89,080
Pennsylvania	243,850	248,750	255,170	262,280
Rhode Island	20,740	21,210	21,550	22,000
South Carolina	65,140	67,300	68,380	71,190
South Dakota	12,770	13,220	13,870	14,160
Tennessee	NA	86,680	88,820	90,240
Texas	514,400	541,060	563,410	566,230
Utah	57,980	62,810	64,670	68,630
Vermont	12,920	13,280	13,710	13,390
Virginia	276,230	272,410	270,990	275,350
Washington	209,710	208,630	219,130	227,910
West Virginia	19,490	20,110	20,490	20,510

State Indicators

State	2013	2014	2015	2016
Wisconsin	106,210	112,540	117,720	124,000
Wyoming	NA	9,050	8,980	8,460
Puerto Rico	22,790	23,320	22,930	24,190

NA not available

Science and Engineering Indicators 2018

State Indicators

S-52 High Science, Engineering, and Technology Employment Establishments as a Percentage of All Business Establishments

Description

This indicator represents the portion of a state's business establishments that are classified as being part of industries with high employment in science, engineering, and technology (SET) occupations. High SET employment industries are defined as those in which the proportion of employees in technology-oriented occupations is at least twice the average proportion for all industries. SET occupations include scientific, engineering, and technician occupations that employ workers who generally possess in-depth knowledge of the theories and principles of science, engineering, and mathematics at a postsecondary level.

States seek to attract such industries because their relatively high compensation levels draw workers and increase state tax revenues. This indicator does not take into account establishment size, as each establishment is counted without regard to the number of its employees. See indicator S-54 for data on employment concentration in high SET employment industries.

The U.S. Census Bureau tracks information on establishments, which it defines as single locations at which business is conducted or where services or industrial operations are performed. An establishment is not necessarily identical with a company or enterprise, which may consist of one establishment or more.

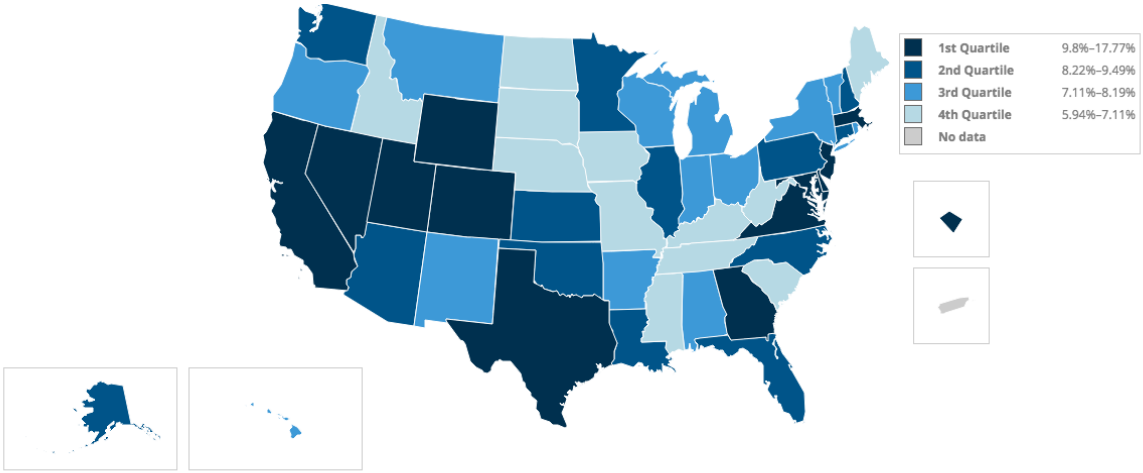
The data on business establishments in high SET employment industries for the years 2003–08 are based on the establishments' classification according to the 2002 edition of the North American Industry Classification System (NAICS). The data for the years 2009–12 are based on classification according to the 2007 edition of NAICS, and subsequent years use 2012 NAICS codes. See the State Indicators data tool technical notes for a description of how industries are defined as high SET employment. Data for years prior to 2003 are not directly comparable because of the switch to NAICS.

Data source: U.S. Census Bureau, special tabulations of the Business Information Tracking Series.

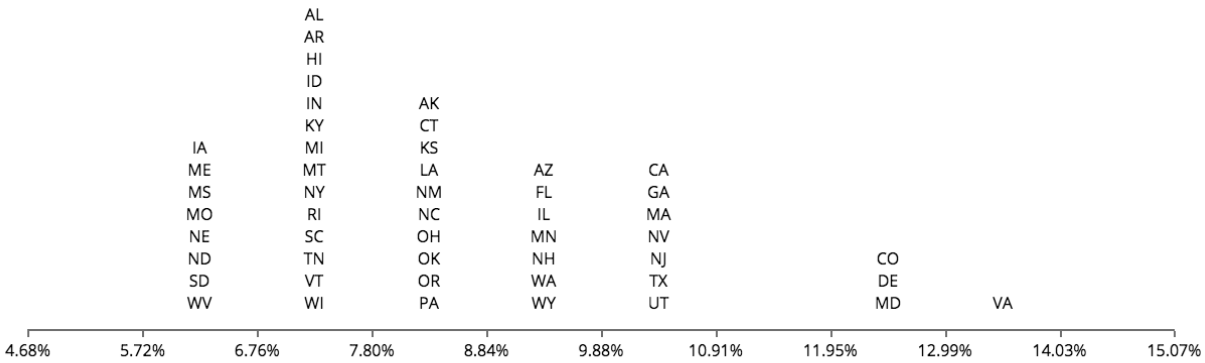
State Indicators

S-52 High Science, Engineering, and Technology Employment Establishments as a Percentage of All Business Establishments

2014



Distribution of states across indicator values, 2014



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

High Science, Engineering, and Technology Employment Establishments as a Percentage of All Business Establishments

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	8.17	8.19	8.26	8.35	8.46	8.52	8.66	8.79	8.88	8.94
Alabama	6.38	6.37	6.35	6.41	6.44	6.51	6.76	6.85	6.93	6.91
Alaska	7.07	7.03	7.22	7.53	7.63	7.49	8.33	8.52	8.33	8.12
Arizona	8.62	8.70	8.68	8.68	8.79	8.77	8.98	9.02	9.03	9.06
Arkansas	6.26	6.36	6.45	6.56	6.74	7.02	7.28	7.46	7.60	7.56
California	9.43	9.45	9.57	9.77	9.87	9.84	9.96	10.11	10.26	10.33
Colorado	10.83	10.91	11.04	11.19	11.43	11.54	11.86	12.06	12.21	12.38
Connecticut	8.58	8.41	8.31	8.38	8.42	8.37	8.44	8.39	8.48	8.40
Delaware	16.02	15.42	15.06	14.47	14.02	13.56	13.46	13.42	13.21	12.64
District of Columbia	13.38	13.82	14.05	14.60	15.07	14.78	15.91	16.33	16.69	16.82
Florida	8.31	8.30	8.40	8.46	8.56	8.74	8.90	9.09	9.21	9.35
Georgia	9.03	9.07	9.10	9.23	9.33	9.42	9.70	9.88	10.00	10.08
Hawaii	6.78	6.82	6.94	7.03	6.92	6.98	7.23	7.24	7.23	7.07
Idaho	6.35	6.27	6.31	6.39	6.57	6.68	6.95	7.08	7.17	7.15
Illinois	8.89	8.95	8.98	8.99	9.00	9.10	9.16	9.21	9.22	9.31
Indiana	6.55	6.61	6.66	6.73	6.79	6.76	6.96	7.10	7.07	7.09
Iowa	5.35	5.32	5.37	5.51	5.64	5.67	5.76	5.88	5.94	5.89
Kansas	7.66	7.80	7.80	7.91	7.89	7.90	8.12	8.28	8.38	8.35
Kentucky	6.03	6.10	6.18	6.22	6.26	6.37	6.50	6.52	6.58	6.63
Louisiana	7.08	6.99	7.05	7.32	7.25	7.38	7.50	7.60	7.78	7.86
Maine	6.09	6.18	6.17	6.23	6.16	6.34	6.62	6.55	6.66	6.88
Maryland	10.11	10.30	10.38	10.45	10.74	10.84	11.21	11.60	11.74	11.87
Massachusetts	9.66	9.86	9.78	9.78	9.91	10.02	10.10	10.12	10.18	10.26

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	7.17	7.16	7.25	7.25	7.37	7.33	7.39	7.57	7.69	7.67
Minnesota	8.83	8.80	8.88	8.85	8.98	8.92	8.92	8.96	9.08	9.15
Mississippi	5.49	5.42	5.39	5.52	5.52	5.71	5.87	5.91	6.10	6.09
Missouri	6.39	6.35	6.39	6.57	6.64	6.69	6.78	6.65	6.71	6.73
Montana	6.27	6.45	6.50	6.61	6.68	6.89	7.05	7.21	7.28	7.35
Nebraska	5.57	5.64	5.77	5.93	6.21	6.28	6.47	6.49	6.47	6.58
Nevada	10.15	9.86	9.92	9.79	9.71	9.76	9.91	10.20	10.20	10.34
New Hampshire	9.21	9.19	9.01	9.05	9.08	9.28	9.43	9.47	9.36	9.44
New Jersey	10.24	10.11	10.11	10.11	10.16	10.21	10.22	10.36	10.34	10.24
New Mexico	7.66	7.68	7.70	7.76	7.82	7.89	8.21	8.18	8.24	8.10
New York	7.18	7.20	7.23	7.25	7.40	7.40	7.38	7.45	7.46	7.49
North Carolina	7.17	7.26	7.44	7.62	7.77	7.82	8.00	8.25	8.36	8.54
North Dakota	4.73	4.68	4.78	4.86	5.01	5.19	5.27	5.28	5.51	5.84
Ohio	7.38	7.42	7.48	7.55	7.59	7.64	7.81	7.97	7.98	7.99
Oklahoma	8.01	7.99	8.03	8.16	8.25	8.26	8.40	8.47	8.56	8.53
Oregon	7.32	7.30	7.35	7.33	7.48	7.66	7.79	8.01	8.06	8.08
Pennsylvania	7.50	7.58	7.66	7.74	7.80	7.91	7.96	8.08	8.10	8.11
Rhode Island	6.77	6.83	6.74	6.79	6.96	6.99	7.15	7.27	7.46	7.47
South Carolina	5.94	5.99	6.11	6.24	6.45	6.55	6.74	6.88	6.96	6.96
South Dakota	4.96	5.00	4.97	4.98	5.22	5.45	5.57	5.58	5.62	5.71
Tennessee	6.33	6.26	6.30	6.51	6.53	6.52	6.65	6.63	6.79	6.81
Texas	9.35	9.29	9.29	9.35	9.46	9.48	9.53	9.63	9.75	9.87
Utah	9.12	9.12	9.39	9.52	9.70	9.70	10.03	10.39	10.59	10.62
Vermont	6.68	6.79	6.80	6.90	7.04	7.01	7.22	7.38	7.42	7.47
Virginia	10.32	10.48	10.70	11.01	11.30	11.39	11.89	12.25	12.51	12.65
Washington	7.92	7.89	7.95	8.03	8.23	8.32	8.55	8.74	8.82	8.85

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	5.61	5.55	5.69	5.70	5.82	5.92	6.15	6.45	6.54	6.39
Wisconsin	6.38	6.43	6.49	6.48	6.57	6.68	6.79	6.97	7.00	7.04
Wyoming	7.20	7.25	7.47	7.72	7.85	7.99	8.15	8.35	8.87	9.01
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national total for establishments in high-technology industries for the United States does not include U.S. territories; The national total for all establishments for the United States does not include U.S. territories.

Source(s):
U.S. Census Bureau, special tabulations of the Business Information Tracking Series (various years), data as of April 2017.

Recommended Citation: National Science Board. 2018. "High Science, Engineering, and Technology Employment Establishments as a Percentage of All Business Establishments." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/high-set-to-all-business-establishments

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

High Science, Engineering, and Technology Employment Establishments as a Percentage of All Business Establishments

(Percent)

State	2013	2014
United States	9.01	9.13
Alabama	7.04	7.20
Alaska	8.20	8.31
Arizona	9.12	9.24
Arkansas	7.55	7.69
California	10.44	10.56
Colorado	12.52	12.63
Connecticut	8.38	8.44
Delaware	12.66	12.89
District of Columbia	17.49	17.77
Florida	9.34	9.49
Georgia	10.11	10.15
Hawaii	7.02	7.11
Idaho	7.02	7.08
Illinois	9.31	9.41
Indiana	7.07	7.23
Iowa	6.01	6.03
Kansas	8.41	8.49
Kentucky	6.67	6.86
Louisiana	7.97	8.22
Maine	6.82	6.71
Maryland	12.11	12.33
Massachusetts	10.44	10.40

State Indicators

State	2013	2014
Michigan	7.65	7.64
Minnesota	9.23	9.27
Mississippi	6.15	6.31
Missouri	6.61	6.55
Montana	7.59	7.56
Nebraska	6.71	6.67
Nevada	10.54	10.52
New Hampshire	9.45	9.33
New Jersey	10.31	10.27
New Mexico	8.07	8.19
New York	7.55	7.65
North Carolina	8.62	8.79
North Dakota	5.95	6.13
Ohio	7.95	8.14
Oklahoma	8.50	8.77
Oregon	8.14	8.15
Pennsylvania	8.20	8.34
Rhode Island	7.61	7.74
South Carolina	7.07	7.11
South Dakota	5.90	5.94
Tennessee	6.81	6.88
Texas	9.94	10.21
Utah	10.72	10.80
Vermont	7.46	7.51
Virginia	12.85	13.09
Washington	8.98	9.15

State Indicators

State	2013	2014
West Virginia	6.52	6.55
Wisconsin	7.10	7.18
Wyoming	9.36	9.80
Puerto Rico	NA	NA

NA not available

Note(s):
The national total for establishments in high-technology industries for the United States does not include U.S. territories; The national total for all establishments for the United States does not include U.S. territories.

Source(s):
U.S. Census Bureau, special tabulations of the Business Information Tracking Series (various years), data as of April 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

High SET employment establishments

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	590,417	603,642	617,878	633,727	650,707	646,195	642,568	648,993	651,275	662,832
Alabama	6,347	6,407	6,463	6,613	6,783	6,754	6,806	6,786	6,757	6,753
Alaska	1,345	1,358	1,425	1,494	1,538	1,489	1,654	1,698	1,672	1,654
Arizona	10,433	10,901	11,401	11,942	12,540	12,269	12,018	11,875	11,748	11,884
Arkansas	4,012	4,142	4,249	4,373	4,550	4,675	4,755	4,852	4,891	4,890
California	77,614	79,288	82,087	85,514	87,815	86,312	85,247	85,787	86,854	89,168
Colorado	15,532	16,027	16,652	17,259	18,016	18,047	18,129	18,306	18,385	18,928
Connecticut	7,827	7,794	7,750	7,810	7,868	7,736	7,590	7,472	7,450	7,391
Delaware	3,964	3,907	3,806	3,700	3,573	3,407	3,296	3,256	3,182	3,012
District of Columbia	2,589	2,695	2,872	3,062	3,158	3,111	3,369	3,507	3,592	3,628
Florida	38,118	40,165	42,294	43,678	44,745	44,285	43,699	44,577	45,104	46,868
Georgia	18,820	19,424	20,029	20,825	21,586	21,402	21,257	21,413	21,411	21,769
Hawaii	2,097	2,152	2,233	2,325	2,305	2,294	2,338	2,309	2,271	2,226
Idaho	2,515	2,582	2,725	2,912	3,107	3,083	3,073	3,071	3,034	3,061
Illinois	27,606	28,200	28,583	28,821	29,222	29,265	28,802	28,886	28,728	29,192
Indiana	9,626	9,858	9,968	10,158	10,355	10,132	10,147	10,276	10,125	10,183
Iowa	4,316	4,324	4,396	4,548	4,679	4,659	4,655	4,745	4,747	4,738
Kansas	5,716	5,900	5,930	6,035	6,076	6,004	6,053	6,144	6,148	6,160
Kentucky	5,453	5,585	5,686	5,769	5,850	5,893	5,888	5,913	5,899	5,947
Louisiana	7,218	7,192	7,235	7,439	7,574	7,670	7,741	7,850	8,017	8,167
Maine	2,466	2,541	2,578	2,612	2,612	2,642	2,684	2,652	2,666	2,755
Maryland	13,428	13,974	14,341	14,632	15,151	15,009	15,195	15,589	15,605	15,919
Massachusetts	17,183	17,305	17,098	17,107	17,470	17,434	17,188	17,148	17,177	17,539
Michigan	16,937	16,988	17,175	17,049	17,321	16,773	16,357	16,555	16,676	16,643

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	12,834	13,055	13,318	13,348	13,590	13,257	13,042	13,014	13,103	13,314
Mississippi	3,269	3,274	3,251	3,336	3,405	3,469	3,490	3,496	3,565	3,566
Missouri	9,562	9,745	9,831	10,130	10,238	10,178	10,218	9,956	9,863	9,852
Montana	2,108	2,229	2,314	2,415	2,515	2,564	2,557	2,593	2,590	2,658
Nebraska	2,797	2,864	2,964	3,072	3,257	3,269	3,335	3,361	3,328	3,435
Nevada	5,387	5,493	5,794	5,975	6,087	6,024	5,915	6,031	5,986	6,134
New Hampshire	3,511	3,559	3,525	3,554	3,575	3,603	3,565	3,539	3,456	3,506
New Jersey	24,286	24,256	24,426	24,534	24,688	24,307	23,598	23,686	23,413	23,352
New Mexico	3,322	3,385	3,455	3,553	3,658	3,635	3,686	3,611	3,607	3,548
New York	35,926	36,706	37,056	37,346	38,368	38,308	38,024	38,636	38,759	39,331
North Carolina	14,869	15,426	16,110	16,908	17,671	17,582	17,479	17,967	17,952	18,524
North Dakota	964	972	1,005	1,035	1,075	1,117	1,127	1,151	1,230	1,373
Ohio	19,875	20,120	20,214	20,347	20,486	20,127	20,007	20,180	19,937	20,003
Oklahoma	6,859	6,965	7,088	7,301	7,512	7,536	7,569	7,610	7,664	7,748
Oregon	7,500	7,659	7,941	8,083	8,453	8,525	8,399	8,587	8,544	8,673
Pennsylvania	22,266	22,796	23,191	23,486	23,778	23,930	23,717	23,956	23,918	24,044
Rhode Island	1,976	2,043	2,038	2,059	2,108	2,076	2,047	2,071	2,099	2,090
South Carolina	5,869	6,048	6,307	6,551	6,942	6,978	6,950	7,010	6,974	7,036
South Dakota	1,206	1,234	1,249	1,266	1,347	1,397	1,415	1,426	1,428	1,469
Tennessee	8,196	8,226	8,364	8,772	8,980	8,882	8,826	8,702	8,777	8,870
Texas	45,062	45,522	46,119	47,520	49,237	49,419	49,390	50,180	51,090	52,966
Utah	5,474	5,716	6,135	6,531	6,960	6,913	6,953	7,139	7,261	7,468
Vermont	1,453	1,498	1,511	1,535	1,570	1,548	1,555	1,581	1,569	1,578
Virginia	18,868	19,758	20,616	21,678	22,607	22,482	23,041	23,623	23,851	24,334
Washington	13,171	13,480	13,902	14,411	15,138	15,116	15,118	15,335	15,245	15,494
West Virginia	2,257	2,259	2,314	2,308	2,352	2,343	2,396	2,490	2,491	2,417

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	9,035	9,249	9,393	9,438	9,591	9,609	9,554	9,709	9,638	9,719
Wyoming	1,353	1,396	1,471	1,558	1,625	1,656	1,654	1,686	1,798	1,855
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

High SET employment establishments

State	2013	2014
United States	673,071	688,985
Alabama	6,860	7,025
Alaska	1,679	1,720
Arizona	12,092	12,408
Arkansas	4,881	4,963
California	91,000	93,710
Colorado	19,360	19,926
Connecticut	7,398	7,455
Delaware	3,053	3,131
District of Columbia	3,830	3,942
Florida	47,571	49,232
Georgia	21,958	22,355
Hawaii	2,217	2,260
Idaho	3,023	3,095
Illinois	29,319	29,704
Indiana	10,129	10,377
Iowa	4,835	4,844
Kansas	6,193	6,273
Kentucky	6,037	6,266
Louisiana	8,308	8,621
Maine	2,740	2,704
Maryland	16,370	16,806
Massachusetts	17,979	18,018
Michigan	16,607	16,648

State Indicators

State	2013	2014
Minnesota	13,493	13,645
Mississippi	3,590	3,684
Missouri	9,907	10,069
Montana	2,768	2,774
Nebraska	3,524	3,529
Nevada	6,344	6,476
New Hampshire	3,509	3,483
New Jersey	23,697	23,645
New Mexico	3,520	3,577
New York	40,102	40,942
North Carolina	18,790	19,287
North Dakota	1,430	1,510
Ohio	19,847	20,367
Oklahoma	7,785	8,093
Oregon	8,805	8,926
Pennsylvania	24,366	24,854
Rhode Island	2,130	2,175
South Carolina	7,169	7,264
South Dakota	1,533	1,552
Tennessee	8,896	9,024
Texas	54,298	56,855
Utah	7,697	7,914
Vermont	1,573	1,579
Virginia	24,880	25,565
Washington	15,831	16,331
West Virginia	2,445	2,441

State Indicators

State	2013	2014
Wisconsin	9,778	9,906
Wyoming	1,925	2,035
Puerto Rico	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

All business establishments

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	7,223,240	7,366,978	7,480,626	7,585,035	7,689,821	7,587,695	7,421,827	7,384,267	7,335,501	7,417,313
Alabama	99,453	100,521	101,730	103,236	105,388	103,690	100,635	99,097	97,509	97,786
Alaska	19,037	19,309	19,743	19,838	20,146	19,870	19,854	19,922	20,063	20,372
Arizona	120,966	125,330	131,311	137,532	142,649	139,876	133,897	131,661	130,028	131,168
Arkansas	64,058	65,127	65,909	66,647	67,513	66,558	65,347	65,069	64,347	64,715
California	822,751	838,615	858,059	875,682	889,726	876,984	856,260	848,238	846,722	862,879
Colorado	143,398	146,937	150,766	154,254	157,570	156,426	152,806	151,765	150,581	152,878
Connecticut	91,207	92,710	93,275	93,232	93,444	92,428	89,919	89,078	87,805	88,027
Delaware	24,739	25,344	25,274	25,563	25,476	25,134	24,487	24,263	24,088	23,826
District of Columbia	19,357	19,503	20,447	20,967	20,957	21,051	21,180	21,478	21,516	21,567
Florida	458,823	483,693	503,535	516,185	522,710	506,466	490,737	490,492	489,615	501,512
Georgia	208,350	214,200	219,990	225,577	231,418	227,233	219,084	216,787	214,202	215,953
Hawaii	30,950	31,538	32,192	33,063	33,321	32,862	32,344	31,904	31,422	31,465
Idaho	39,582	41,205	43,213	45,599	47,284	46,133	44,214	43,365	42,292	42,827
Illinois	310,589	315,093	318,171	320,756	324,628	321,441	314,565	313,654	311,683	313,598
Indiana	147,073	149,050	149,605	151,024	152,604	149,891	145,808	144,802	143,190	143,712
Iowa	80,745	81,334	81,878	82,542	83,008	82,207	80,854	80,637	79,919	80,464
Kansas	74,637	75,600	76,001	76,261	76,984	75,958	74,560	74,163	73,392	73,791
Kentucky	90,358	91,598	92,030	92,700	93,428	92,471	90,555	90,665	89,611	89,682
Louisiana	101,933	102,866	102,629	101,647	104,459	103,877	103,251	103,234	103,039	103,924
Maine	40,519	41,131	41,814	41,941	42,409	41,683	40,549	40,506	40,012	40,052
Maryland	132,782	135,699	138,118	140,021	141,076	138,416	135,491	134,417	132,974	134,090
Massachusetts	177,910	175,426	174,791	174,997	176,304	173,933	170,110	169,475	168,696	170,945
Michigan	236,221	237,392	236,969	235,245	234,971	228,890	221,327	218,752	216,859	217,060

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	145,364	148,276	149,930	150,896	151,304	148,641	146,173	145,247	144,296	145,566
Mississippi	59,565	60,364	60,370	60,442	61,727	60,793	59,501	59,196	58,465	58,538
Missouri	149,753	153,584	153,883	154,177	154,201	152,165	150,659	149,628	146,905	146,300
Montana	33,616	34,570	35,616	36,550	37,645	37,228	36,256	35,950	35,575	36,144
Nebraska	50,213	50,803	51,341	51,822	52,452	52,064	51,544	51,803	51,450	52,203
Nevada	53,080	55,713	58,402	61,061	62,706	61,721	59,698	59,113	58,663	59,324
New Hampshire	38,119	38,707	39,127	39,273	39,363	38,812	37,812	37,385	36,930	37,158
New Jersey	237,097	240,013	241,690	242,649	242,967	238,080	230,904	228,577	226,452	227,948
New Mexico	43,386	44,071	44,888	45,814	46,763	46,091	44,902	44,134	43,755	43,798
New York	500,559	509,873	512,759	514,992	518,608	517,873	515,107	518,527	519,562	525,298
North Carolina	207,500	212,457	216,395	221,898	227,444	224,757	218,592	217,768	214,658	217,012
North Dakota	20,371	20,763	21,012	21,286	21,477	21,514	21,405	21,792	22,305	23,503
Ohio	269,202	271,078	270,408	269,398	269,855	263,353	256,146	253,136	249,880	250,441
Oklahoma	85,633	87,180	88,316	89,440	91,054	91,186	90,151	89,868	89,537	90,792
Oregon	102,462	104,966	108,113	110,317	113,054	111,266	107,814	107,181	105,979	107,284
Pennsylvania	297,040	300,832	302,713	303,507	304,721	302,568	297,988	296,514	295,187	296,478
Rhode Island	29,172	29,900	30,223	30,322	30,299	29,713	28,636	28,477	28,123	27,989
South Carolina	98,735	100,947	103,176	105,060	107,685	106,501	103,112	101,902	100,240	101,053
South Dakota	24,314	24,693	25,130	25,419	25,797	25,624	25,418	25,562	25,419	25,733
Tennessee	129,458	131,355	132,798	134,776	137,547	136,321	132,638	131,302	129,177	130,319
Texas	481,804	489,782	496,601	508,092	520,405	521,383	518,183	521,248	524,082	536,771
Utah	60,011	62,644	65,366	68,612	71,722	71,301	69,347	68,725	68,592	70,343
Vermont	21,747	22,072	22,221	22,261	22,298	22,067	21,530	21,422	21,139	21,123
Virginia	182,783	188,533	192,640	196,849	200,131	197,376	193,744	192,780	190,693	192,428
Washington	166,229	170,848	174,950	179,368	183,984	181,688	176,864	175,486	172,846	175,061
West Virginia	40,225	40,732	40,641	40,480	40,415	39,579	38,929	38,599	38,060	37,838

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	141,560	143,739	144,784	145,590	146,019	143,830	140,636	139,332	137,695	137,988
Wyoming	18,804	19,262	19,683	20,175	20,705	20,722	20,304	20,189	20,271	20,587
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

All business establishments

State	2013	2014
United States	7,473,282	7,547,983
Alabama	97,392	97,522
Alaska	20,465	20,696
Arizona	132,568	134,235
Arkansas	64,679	64,571
California	872,007	887,221
Colorado	154,657	157,826
Connecticut	88,269	88,337
Delaware	24,112	24,281
District of Columbia	21,894	22,185
Florida	509,449	518,959
Georgia	217,239	220,314
Hawaii	31,585	31,772
Idaho	43,043	43,732
Illinois	314,772	315,593
Indiana	143,228	143,549
Iowa	80,416	80,285
Kansas	73,654	73,891
Kentucky	90,550	91,297
Louisiana	104,260	104,891
Maine	40,187	40,314
Maryland	135,177	136,248
Massachusetts	172,155	173,213
Michigan	217,086	217,916

State Indicators

State	2013	2014
Minnesota	146,118	147,240
Mississippi	58,341	58,427
Missouri	149,960	153,620
Montana	36,451	36,707
Nebraska	52,509	52,905
Nevada	60,210	61,542
New Hampshire	37,119	37,330
New Jersey	229,947	230,272
New Mexico	43,636	43,650
New York	530,855	535,045
North Carolina	217,859	219,532
North Dakota	24,029	24,650
Ohio	249,639	250,113
Oklahoma	91,584	92,279
Oregon	108,213	109,558
Pennsylvania	297,278	297,850
Rhode Island	27,977	28,090
South Carolina	101,375	102,144
South Dakota	25,967	26,141
Tennessee	130,608	131,227
Texas	546,146	556,676
Utah	71,780	73,264
Vermont	21,088	21,017
Virginia	193,634	195,370
Washington	176,296	178,458
West Virginia	37,517	37,283

State Indicators

State	2013	2014
Wisconsin	137,735	137,977
Wyoming	20,567	20,768
Puerto Rico	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

S-53 Net Formations of High Science, Engineering, and Technology Employment Establishments as a Percentage of All Business Establishments

Description

The term "net formations" here refers to the difference between the number of business establishments that are formed in the indicated year and the number that ceased operations during the previous year. The U.S. Census Bureau tracks information on establishments, which it defines as single locations at which business is conducted or where services or industrial operations are performed. An establishment is not necessarily identical with a company or enterprise, which may consist of one establishment or more.

The ratio of the number of net establishment formations that occur in industries with high employment in science, engineering, and technology (SET) occupations to the number of business establishments in a state indicates the relative expansion or contraction of high SET employment industries in a state's economy.

The data on business establishments in high SET employment industries for the years 2003–08 are based on the establishments' classification according to the 2002 edition of the North American Industry Classification System (NAICS). The data for the years 2009–12 are based on classification according to the 2007 edition of NAICS, and subsequent years use 2012 NAICS codes. See the State Indicators data tool technical notes for a description of how industries are defined as high SET employment. Data for years prior to 2003 are not directly comparable because of the switch to NAICS.

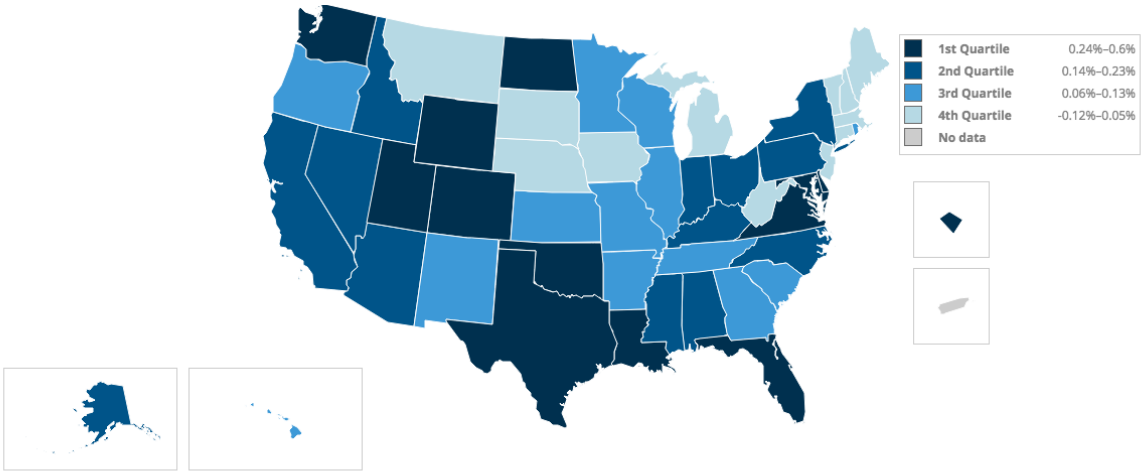
Changes in company name, ownership, or address are not counted as business formations or business deaths. Net business formations cannot be used to directly link the number of high SET employment business establishments in different years because the primary industry of some establishments may have changed during the period.

Data source: U.S. Census Bureau, special tabulations of the Business Information Tracking Series.

State Indicators

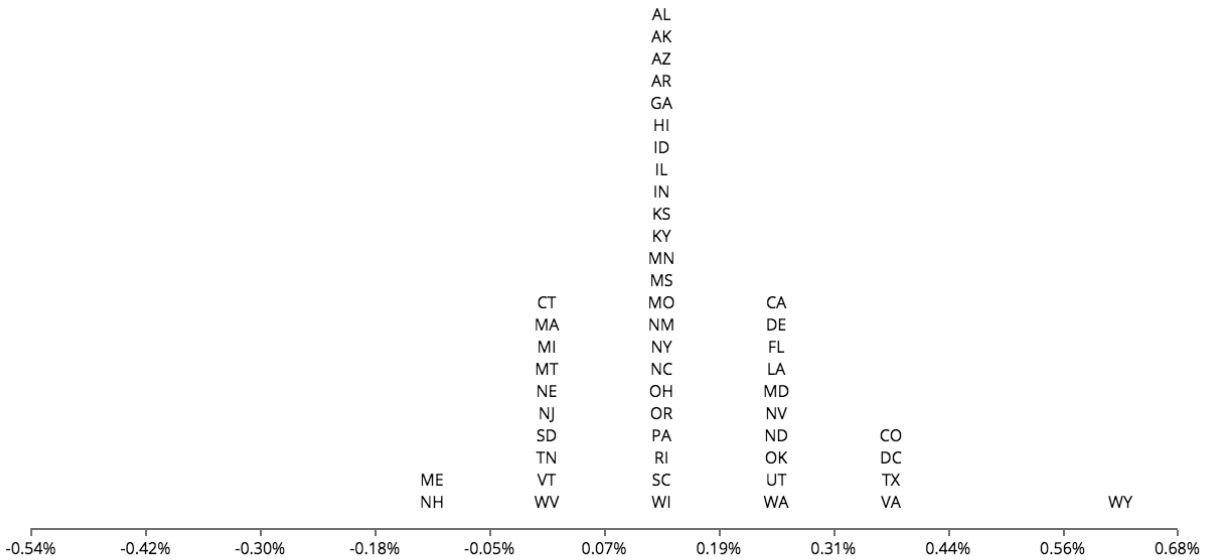
S-53 Net Formations of High Science, Engineering, and Technology Employment Establishments as a Percentage of All Business Establishments

2014



Distribution of states across indicator values, 2014

State Indicators



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

Net Formations of High Science, Engineering, and Technology Employment Establishments as a Percentage of All Business Establishments

(Percent)

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
United States	0.16	0.16	0.18	0.20	-0.04	-0.14	0.06	0.03	0.13	0.07
Alabama	0.06	0.06	0.13	0.13	-0.06	-0.05	*	-0.03	-0.02	0.06
Alaska	0.11	0.30	0.33	0.27	-0.16	0.55	0.25	-0.07	-0.02	0.03
Arizona	0.28	0.28	0.32	0.33	-0.17	-0.24	-0.16	-0.09	0.03	0.09
Arkansas	0.19	0.14	0.15	0.17	0.20	0.02	0.18	0.07	-0.02	-0.05
California	0.13	0.25	0.30	0.22	-0.11	-0.23	*	0.11	0.25	0.13
Colorado	0.33	0.39	0.33	0.48	0.09	-0.10	0.06	0.06	0.30	0.19
Connecticut	-0.05	-0.05	0.05	0.07	-0.13	-0.24	-0.13	-0.05	-0.05	-0.08
Delaware	-0.21	-0.34	-0.31	-0.51	-0.61	-0.54	-0.15	-0.20	-0.16	0.31
District of Columbia	0.34	0.57	0.93	0.68	-0.12	1.10	0.62	0.39	0.07	0.83
Florida	0.36	0.34	0.20	0.17	-0.06	-0.20	0.13	0.10	0.28	0.11
Georgia	0.30	0.27	0.33	0.32	-0.10	-0.16	0.05	-0.03	0.15	-0.08
Hawaii	0.16	0.25	0.27	-0.09	-0.04	0.09	-0.10	-0.10	-0.14	-0.10
Idaho	0.13	0.32	0.33	0.39	-0.02	-0.09	-0.03	-0.11	-0.01	-0.12
Illinois	0.14	0.10	0.08	0.17	0.02	-0.21	0.03	-0.04	0.10	-0.03
Indiana	0.14	0.07	0.11	0.11	-0.05	-0.09	0.08	-0.12	0.02	-0.09
Iowa	0.01	0.10	0.18	0.12	-0.02	-0.12	0.11	-0.01	*	0.08
Kansas	0.21	0.07	0.15	0.05	-0.04	-0.05	0.04	0.05	-0.05	-0.02
Kentucky	0.13	0.12	0.05	0.05	0.05	-0.11	0.02	-0.03	0.05	0.04
Louisiana	-0.04	0.04	0.19	0.22	0.12	-0.06	0.11	0.17	0.15	0.12
Maine	0.20	0.06	0.07	0.00	0.12	*	-0.11	0.03	0.21	-0.12
Maryland	0.35	0.24	0.20	0.34	-0.04	0.10	0.25	0.03	0.24	0.30

State Indicators

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Massachusetts	0.09	-0.10	0.11	0.17	-0.08	-0.27	-0.02	0.06	0.09	0.12
Michigan	0.02	0.07	0.01	0.11	-0.18	-0.30	0.05	-0.02	-0.06	-0.08
Minnesota	0.12	0.15	0.03	0.18	-0.19	-0.25	-0.04	0.05	0.07	0.02
Mississippi	0.01	-0.01	0.14	0.13	0.09	-0.08	0.04	0.10	0.01	0.04
Missouri	0.13	0.06	0.18	0.04	*	-0.12	-0.18	-0.06	-0.04	0.01
Montana	0.31	0.27	0.27	0.23	0.21	-0.10	0.07	0.02	0.22	0.24
Nebraska	0.13	0.18	0.19	0.27	0.06	0.03	0.06	-0.07	0.21	0.16
Nevada	0.30	0.52	0.34	0.29	-0.05	-0.26	0.19	-0.01	0.29	0.22
New Hampshire	0.08	-0.08	0.03	-0.06	0.00	-0.21	-0.07	-0.19	0.20	-0.15
New Jersey	-0.03	0.04	0.02	-0.03	-0.17	-0.39	0.01	-0.10	-0.03	0.11
New Mexico	0.08	0.14	0.21	0.20	*	0.05	-0.16	-0.01	-0.11	-0.10
New York	0.14	0.05	0.05	0.19	*	-0.13	0.10	0.03	0.11	0.08
North Carolina	0.24	0.27	0.31	0.25	-0.02	-0.14	0.18	-0.05	0.16	*
North Dakota	*	0.16	0.16	0.24	0.20	-0.04	0.11	0.34	0.54	0.29
Ohio	0.08	0.02	0.04	0.08	-0.10	-0.15	0.07	-0.11	-0.02	-0.12
Oklahoma	0.09	0.14	0.26	0.27	0.02	-0.04	0.05	0.10	0.06	*
Oregon	0.15	0.26	0.13	0.27	0.08	-0.21	0.18	-0.06	0.12	*
Pennsylvania	0.16	0.12	0.09	0.08	0.06	-0.17	0.07	-0.04	0.02	0.01
Rhode Island	0.22	-0.02	0.03	0.23	-0.18	-0.15	0.08	0.03	-0.05	0.03
South Carolina	0.17	0.22	0.22	0.27	0.02	-0.11	0.04	-0.05	*	0.07
South Dakota	0.06	0.10	0.04	0.29	0.16	-0.01	0.02	-0.01	0.14	0.25
Tennessee	0.03	0.11	0.28	0.07	-0.06	-0.11	-0.12	0.04	0.05	-0.02
Texas	0.08	0.10	0.24	0.31	0.04	-0.09	0.12	0.18	0.31	0.18
Utah	0.45	0.61	0.56	0.55	-0.02	0.03	0.23	0.20	0.25	0.31
Vermont	0.19	0.03	0.10	0.17	-0.02	-0.13	0.08	-0.06	0.12	-0.14
Virginia	0.45	0.41	0.50	0.42	-0.08	0.21	0.29	0.10	0.14	0.24

State Indicators

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Washington	0.20	0.23	0.27	0.36	0.03	-0.06	0.11	-0.06	0.14	0.14
West Virginia	0.04	0.11	-0.03	0.10	0.05	-0.01	0.26	*	-0.19	0.02
Wisconsin	0.15	0.06	0.05	0.05	-0.01	-0.14	0.10	-0.07	-0.01	-0.03
Wyoming	0.19	0.51	0.42	0.33	0.26	-0.03	0.20	0.58	0.37	0.38
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national establishment formation total for the United States does not include U.S. territories; The national total for all establishments for the United States does not include U.S. territories.

Source(s):
U.S. Census Bureau, special tabulations of the Business Information Tracking Series (various years), data as of April 2017.

Recommended Citation: National Science Board. 2018. "Net Formations of High Science, Engineering, and Technology Employment Establishments as a Percentage of All Business Establishments." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/high-set-formations-to-all-business-establishments

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Net Formations of High Science, Engineering, and Technology Employment Establishments as a Percentage of All Business Establishments

(Percent)

State	2014
United States	0.18
Alabama	0.15
Alaska	0.19
Arizona	0.18
Arkansas	0.09
California	0.22
Colorado	0.32
Connecticut	0.01
Delaware	0.31
District of Columbia	0.40
Florida	0.27
Georgia	0.13
Hawaii	0.11
Idaho	0.17
Illinois	0.11
Indiana	0.15
Iowa	*
Kansas	0.10
Kentucky	0.19
Louisiana	0.27
Maine	-0.09
Maryland	0.28

State Indicators

State	2014
Massachusetts	0.05
Michigan	0.01
Minnesota	0.10
Mississippi	0.16
Missouri	0.10
Montana	0.02
Nebraska	-0.01
Nevada	0.23
New Hampshire	-0.12
New Jersey	-0.05
New Mexico	0.11
New York	0.15
North Carolina	0.18
North Dakota	0.26
Ohio	0.18
Oklahoma	0.25
Oregon	0.07
Pennsylvania	0.14
Rhode Island	0.10
South Carolina	0.08
South Dakota	0.03
Tennessee	0.06
Texas	0.42
Utah	0.29
Vermont	-0.01
Virginia	0.35

State Indicators

State	2014
Washington	0.24
West Virginia	-0.03
Wisconsin	0.09
Wyoming	0.60
Puerto Rico	NA

NA not available

Note(s):
The national establishment formation total for the United States does not include U.S. territories; The national total for all establishments for the United States does not include U.S. territories.

Source(s):
U.S. Census Bureau, special tabulations of the Business Information Tracking Series (various years), data as of April 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Net high SET employment establishment formations

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
United States	11,598	12,215	14,031	15,113	-2,768	-10,428	4,631	1,874	9,299	5,289
Alabama	63	64	134	141	-65	-54	-3	-32	-19	58
Alaska	22	59	66	55	-32	110	49	-15	-4	6
Arizona	357	373	446	464	-,236	-,326	-,213	-,122	33	115
Arkansas	123	92	98	114	131	14	120	44	-10	-32
California	1,099	2,174	2,633	1,929	-,973	-1,976	-8	919	2,169	1,137
Colorado	490	583	509	751	148	-,154	97	85	462	287
Connecticut	-47	-46	44	62	-,124	-,219	-,113	-43	-42	-72
Delaware	-52	-87	-78	-,131	-,153	-,133	-36	-48	-39	74
District of Columbia	66	117	195	143	-25	232	134	84	15	181
Florida	1,743	1,695	1,009	873	-,322	-,957	616	502	1,407	555
Georgia	642	589	734	731	-,228	-,357	106	-57	321	-,164
Hawaii	51	82	90	-30	-14	28	-32	-30	-45	-31
Idaho	54	138	151	185	-10	-40	-13	-48	-6	-51
Illinois	452	328	243	545	65	-,668	92	-,120	327	-81
Indiana	208	101	164	171	-78	-,125	122	-,176	30	-,127
Iowa	12	78	150	97	-14	-99	91	-8	4	68
Kansas	160	56	114	41	-31	-39	31	35	-39	-13
Kentucky	116	115	42	48	46	-98	14	-30	48	37
Louisiana	-38	36	195	225	121	-67	117	180	155	125
Maine	81	23	31	0	49	-2	-44	11	83	-47
Maryland	475	329	278	478	-56	130	342	38	318	405
Massachusetts	156	-,178	193	304	-,141	-,455	-36	101	158	199
Michigan	44	175	27	267	-,408	-,662	113	-36	-,136	-,164

State Indicators

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Minnesota	185	223	39	276	-,278	-,363	-54	69	107	31
Mississippi	7	-8	83	79	52	-45	25	56	6	23
Missouri	195	99	279	62	-7	-,174	-,262	-81	-63	20
Montana	108	97	98	87	80	-37	26	8	80	88
Nebraska	64	94	98	144	32	15	32	-37	108	86
Nevada	169	301	207	181	-32	-,156	112	-7	175	135
New Hampshire	30	-32	13	-23	0	-81	-28	-69	74	-57
New Jersey	-80	86	38	-77	-,393	-,891	31	-,235	-72	260
New Mexico	37	61	98	93	-1	24	-69	-5	-46	-45
New York	702	259	274	977	20	-,663	530	170	602	441
North Carolina	514	585	692	559	-53	-,298	383	-98	356	-2
North Dakota	-1	34	34	52	43	-8	25	75	128	69
Ohio	204	43	111	205	-,273	-,386	173	-,280	-42	-,295
Oklahoma	75	124	236	245	22	-35	47	94	52	4
Oregon	156	286	141	309	93	-,222	198	-67	133	2
Pennsylvania	474	355	278	233	177	-,509	198	-,117	71	18
Rhode Island	67	-5	8	69	-54	-44	22	8	-14	8
South Carolina	175	232	230	294	25	-,117	44	-55	5	69
South Dakota	16	25	9	76	42	-2	5	-3	35	64
Tennessee	39	141	372	99	-75	-,145	-,156	48	67	-24
Texas	401	477	1,221	1,588	231	-,442	600	927	1,645	993
Utah	283	396	382	397	-16	19	156	140	176	219
Vermont	42	7	22	37	-4	-29	17	-13	25	-29
Virginia	845	791	986	844	-,162	398	567	192	272	471
Washington	346	410	476	657	52	-,113	185	-99	239	239
West Virginia	16	46	-13	40	19	-2	99	1	-71	6

State Indicators

State	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Wisconsin	215	91	66	78	-12	-,198	138	-99	-15	-48
Wyoming	37	101	85	69	54	-7	41	117	76	78
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Net high SET employment establishment formations

State	2014
United States	13,409
Alabama	146
Alaska	39
Arizona	242
Arkansas	58
California	1,908
Colorado	499
Connecticut	8
Delaware	75
District of Columbia	88
Florida	1,421
Georgia	287
Hawaii	35
Idaho	76
Illinois	357
Indiana	215
Iowa	4
Kansas	75
Kentucky	173
Louisiana	278
Maine	-38
Maryland	380
Massachusetts	89
Michigan	23

State Indicators

State	2014
Minnesota	151
Mississippi	93
Missouri	146
Montana	9
Nebraska	-7
Nevada	142
New Hampshire	-45
New Jersey	-,111
New Mexico	46
New York	783
North Carolina	395
North Dakota	65
Ohio	456
Oklahoma	235
Oregon	77
Pennsylvania	426
Rhode Island	29
South Carolina	83
South Dakota	7
Tennessee	77
Texas	2,360
Utah	212
Vermont	-3
Virginia	687
Washington	420
West Virginia	-13

State Indicators

State	2014
Wisconsin	127
Wyoming	124
Puerto Rico	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

All business establishments

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	7,223,240	7,366,978	7,480,626	7,585,035	7,689,821	7,587,695	7,421,827	7,384,267	7,335,501	7,417,313
Alabama	99,453	100,521	101,730	103,236	105,388	103,690	100,635	99,097	97,509	97,786
Alaska	19,037	19,309	19,743	19,838	20,146	19,870	19,854	19,922	20,063	20,372
Arizona	120,966	125,330	131,311	137,532	142,649	139,876	133,897	131,661	130,028	131,168
Arkansas	64,058	65,127	65,909	66,647	67,513	66,558	65,347	65,069	64,347	64,715
California	822,751	838,615	858,059	875,682	889,726	876,984	856,260	848,238	846,722	862,879
Colorado	143,398	146,937	150,766	154,254	157,570	156,426	152,806	151,765	150,581	152,878
Connecticut	91,207	92,710	93,275	93,232	93,444	92,428	89,919	89,078	87,805	88,027
Delaware	24,739	25,344	25,274	25,563	25,476	25,134	24,487	24,263	24,088	23,826
District of Columbia	19,357	19,503	20,447	20,967	20,957	21,051	21,180	21,478	21,516	21,567
Florida	458,823	483,693	503,535	516,185	522,710	506,466	490,737	490,492	489,615	501,512
Georgia	208,350	214,200	219,990	225,577	231,418	227,233	219,084	216,787	214,202	215,953
Hawaii	30,950	31,538	32,192	33,063	33,321	32,862	32,344	31,904	31,422	31,465
Idaho	39,582	41,205	43,213	45,599	47,284	46,133	44,214	43,365	42,292	42,827
Illinois	310,589	315,093	318,171	320,756	324,628	321,441	314,565	313,654	311,683	313,598
Indiana	147,073	149,050	149,605	151,024	152,604	149,891	145,808	144,802	143,190	143,712
Iowa	80,745	81,334	81,878	82,542	83,008	82,207	80,854	80,637	79,919	80,464
Kansas	74,637	75,600	76,001	76,261	76,984	75,958	74,560	74,163	73,392	73,791
Kentucky	90,358	91,598	92,030	92,700	93,428	92,471	90,555	90,665	89,611	89,682
Louisiana	101,933	102,866	102,629	101,647	104,459	103,877	103,251	103,234	103,039	103,924
Maine	40,519	41,131	41,814	41,941	42,409	41,683	40,549	40,506	40,012	40,052
Maryland	132,782	135,699	138,118	140,021	141,076	138,416	135,491	134,417	132,974	134,090
Massachusetts	177,910	175,426	174,791	174,997	176,304	173,933	170,110	169,475	168,696	170,945
Michigan	236,221	237,392	236,969	235,245	234,971	228,890	221,327	218,752	216,859	217,060

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	145,364	148,276	149,930	150,896	151,304	148,641	146,173	145,247	144,296	145,566
Mississippi	59,565	60,364	60,370	60,442	61,727	60,793	59,501	59,196	58,465	58,538
Missouri	149,753	153,584	153,883	154,177	154,201	152,165	150,659	149,628	146,905	146,300
Montana	33,616	34,570	35,616	36,550	37,645	37,228	36,256	35,950	35,575	36,144
Nebraska	50,213	50,803	51,341	51,822	52,452	52,064	51,544	51,803	51,450	52,203
Nevada	53,080	55,713	58,402	61,061	62,706	61,721	59,698	59,113	58,663	59,324
New Hampshire	38,119	38,707	39,127	39,273	39,363	38,812	37,812	37,385	36,930	37,158
New Jersey	237,097	240,013	241,690	242,649	242,967	238,080	230,904	228,577	226,452	227,948
New Mexico	43,386	44,071	44,888	45,814	46,763	46,091	44,902	44,134	43,755	43,798
New York	500,559	509,873	512,759	514,992	518,608	517,873	515,107	518,527	519,562	525,298
North Carolina	207,500	212,457	216,395	221,898	227,444	224,757	218,592	217,768	214,658	217,012
North Dakota	20,371	20,763	21,012	21,286	21,477	21,514	21,405	21,792	22,305	23,503
Ohio	269,202	271,078	270,408	269,398	269,855	263,353	256,146	253,136	249,880	250,441
Oklahoma	85,633	87,180	88,316	89,440	91,054	91,186	90,151	89,868	89,537	90,792
Oregon	102,462	104,966	108,113	110,317	113,054	111,266	107,814	107,181	105,979	107,284
Pennsylvania	297,040	300,832	302,713	303,507	304,721	302,568	297,988	296,514	295,187	296,478
Rhode Island	29,172	29,900	30,223	30,322	30,299	29,713	28,636	28,477	28,123	27,989
South Carolina	98,735	100,947	103,176	105,060	107,685	106,501	103,112	101,902	100,240	101,053
South Dakota	24,314	24,693	25,130	25,419	25,797	25,624	25,418	25,562	25,419	25,733
Tennessee	129,458	131,355	132,798	134,776	137,547	136,321	132,638	131,302	129,177	130,319
Texas	481,804	489,782	496,601	508,092	520,405	521,383	518,183	521,248	524,082	536,771
Utah	60,011	62,644	65,366	68,612	71,722	71,301	69,347	68,725	68,592	70,343
Vermont	21,747	22,072	22,221	22,261	22,298	22,067	21,530	21,422	21,139	21,123
Virginia	182,783	188,533	192,640	196,849	200,131	197,376	193,744	192,780	190,693	192,428
Washington	166,229	170,848	174,950	179,368	183,984	181,688	176,864	175,486	172,846	175,061
West Virginia	40,225	40,732	40,641	40,480	40,415	39,579	38,929	38,599	38,060	37,838

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	141,560	143,739	144,784	145,590	146,019	143,830	140,636	139,332	137,695	137,988
Wyoming	18,804	19,262	19,683	20,175	20,705	20,722	20,304	20,189	20,271	20,587
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

All business establishments

State	2013	2014
United States	7,473,282	7,547,983
Alabama	97,392	97,522
Alaska	20,465	20,696
Arizona	132,568	134,235
Arkansas	64,679	64,571
California	872,007	887,221
Colorado	154,657	157,826
Connecticut	88,269	88,337
Delaware	24,112	24,281
District of Columbia	21,894	22,185
Florida	509,449	518,959
Georgia	217,239	220,314
Hawaii	31,585	31,772
Idaho	43,043	43,732
Illinois	314,772	315,593
Indiana	143,228	143,549
Iowa	80,416	80,285
Kansas	73,654	73,891
Kentucky	90,550	91,297
Louisiana	104,260	104,891
Maine	40,187	40,314
Maryland	135,177	136,248
Massachusetts	172,155	173,213
Michigan	217,086	217,916

State Indicators

State	2013	2014
Minnesota	146,118	147,240
Mississippi	58,341	58,427
Missouri	149,960	153,620
Montana	36,451	36,707
Nebraska	52,509	52,905
Nevada	60,210	61,542
New Hampshire	37,119	37,330
New Jersey	229,947	230,272
New Mexico	43,636	43,650
New York	530,855	535,045
North Carolina	217,859	219,532
North Dakota	24,029	24,650
Ohio	249,639	250,113
Oklahoma	91,584	92,279
Oregon	108,213	109,558
Pennsylvania	297,278	297,850
Rhode Island	27,977	28,090
South Carolina	101,375	102,144
South Dakota	25,967	26,141
Tennessee	130,608	131,227
Texas	546,146	556,676
Utah	71,780	73,264
Vermont	21,088	21,017
Virginia	193,634	195,370
Washington	176,296	178,458
West Virginia	37,517	37,283

State Indicators

State	2013	2014
Wisconsin	137,735	137,977
Wyoming	20,567	20,768
Puerto Rico	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

S-54 Employment in High Science, Engineering, and Technology Employment Establishments as a Percentage of Total Employment

Description

This indicator represents the extent to which a state's workforce is employed in industries with high employment in science, engineering, and technology (SET) occupations. High SET employment industries are defined as those in which the proportion of employees in SET occupations is at least twice the average proportion for all industries. SET occupations include scientific, engineering, and technical occupations that employ workers who generally possess in-depth knowledge of the theories and principles of science, engineering, and mathematics at a postsecondary level.

The U.S. Census Bureau tracks information on establishments, which it defines as single locations at which business is conducted or where services or industrial operations are performed. An establishment is not necessarily identical with a company or enterprise, which may consist of one establishment or more.

The data on business establishments in high SET employment industries for the years 2003–08 are based on the establishments' classification according to the 2002 edition of the North American Industry Classification System (NAICS). The data for the years 2009–12 are based on classification according to the 2007 edition of NAICS, and subsequent years use 2012 NAICS codes. See the State Indicators data tool technical notes for a description of how industries are defined as high SET employment industries.

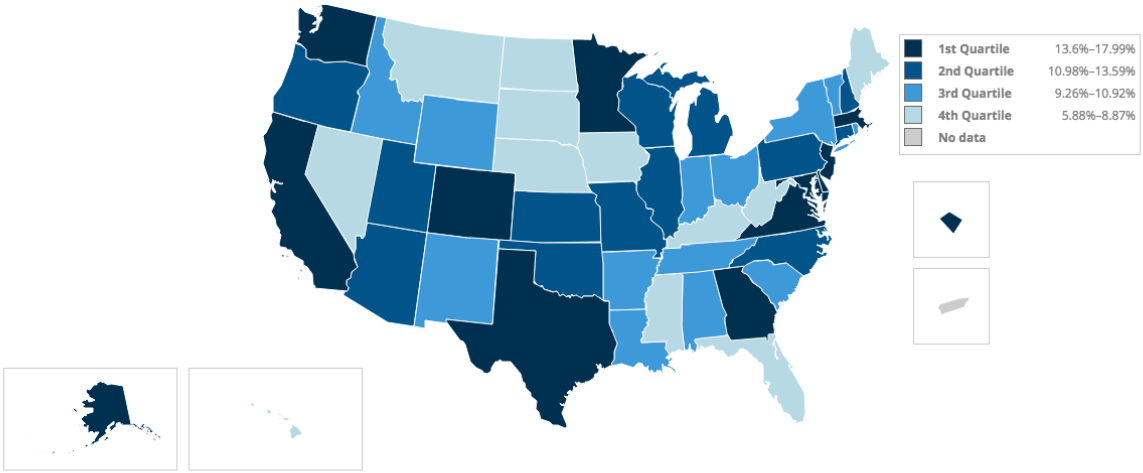
Data on total employment and NAICS industry establishment employment are provided by the U.S. Census Bureau and differ from workforce data provided by the Bureau of Labor Statistics. Total employment refers to all U.S. business establishments with paid employees but does not include crop and animal production, rail transportation, the postal service, public administration, or most government employees.

Data source: U.S. Census Bureau, special tabulations of the Business Information Tracking Series.

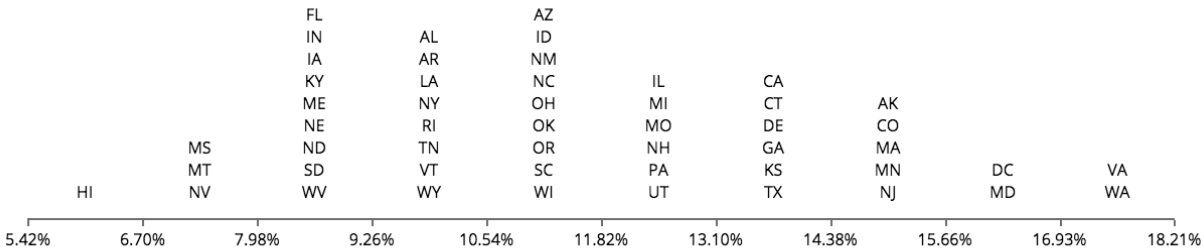
State Indicators

S-54 Employment in High Science, Engineering, and Technology Employment Establishments as a Percentage of Total Employment

2014



Distribution of states across indicator values, 2014



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

Employment in High Science, Engineering, and Technology Employment Establishments as a Percentage of Total Employment

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	11.96	11.61	11.55	11.45	11.74	11.47	11.98	11.99	12.10	12.08
Alabama	9.57	9.76	9.83	9.47	9.32	9.49	10.44	10.52	10.56	10.25
Alaska	10.08	9.91	10.71	11.30	12.58	12.40	13.84	14.45	14.80	13.58
Arizona	11.74	11.67	10.85	10.56	10.95	10.41	10.82	11.57	11.08	10.52
Arkansas	9.63	10.04	9.40	8.99	8.71	9.16	10.13	9.95	10.30	10.11
California	13.72	13.33	13.30	13.21	13.36	12.99	13.67	13.68	13.80	13.88
Colorado	14.60	13.92	13.66	13.52	14.58	13.73	15.13	15.53	15.60	15.83
Connecticut	13.55	13.28	13.14	12.52	13.54	12.90	13.44	13.63	13.26	13.50
Delaware	13.59	13.83	12.97	12.30	11.90	10.82	12.20	12.41	11.59	11.23
District of Columbia	12.84	13.11	13.08	12.83	13.04	13.28	13.59	14.65	15.82	14.83
Florida	8.80	8.56	8.33	8.21	8.52	8.34	8.70	8.84	8.86	8.88
Georgia	12.21	11.94	12.05	11.82	11.94	12.33	13.45	13.49	13.30	13.41
Hawaii	5.62	5.54	5.42	5.63	5.58	5.50	5.96	6.26	6.87	6.79
Idaho	11.94	11.00	11.29	10.82	11.03	10.53	10.93	11.07	11.11	10.91
Illinois	12.42	11.83	11.72	11.57	11.95	12.12	12.47	12.18	12.30	12.58
Indiana	8.64	8.49	8.68	8.41	9.08	8.69	9.12	9.20	9.09	8.96
Iowa	8.31	7.74	7.72	7.43	7.57	7.98	8.20	8.27	8.52	8.56
Kansas	13.97	13.71	13.10	12.85	13.75	14.26	14.48	13.89	13.08	13.13
Kentucky	8.28	8.00	7.86	8.07	8.54	8.22	8.44	8.44	8.27	8.38
Louisiana	8.55	7.99	8.48	9.03	8.82	8.81	8.89	8.84	8.97	9.32
Maine	7.20	7.33	7.11	7.47	7.74	7.87	8.21	7.88	7.89	7.99
Maryland	15.12	15.06	15.12	14.63	15.77	14.93	15.31	15.97	16.25	16.14
Massachusetts	15.50	15.30	15.77	16.32	16.12	15.11	15.12	15.11	14.97	15.21

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	12.85	12.49	12.52	12.45	12.19	11.66	11.82	11.89	12.30	11.82
Minnesota	13.27	12.93	13.38	13.33	13.94	12.64	13.91	13.10	13.58	14.33
Mississippi	7.30	6.66	6.88	6.87	6.86	6.82	7.19	7.20	7.47	7.28
Missouri	10.65	10.63	10.56	10.68	10.81	11.00	11.45	11.10	11.27	11.06
Montana	6.70	6.50	7.87	7.87	6.60	6.57	7.06	7.20	7.32	7.14
Nebraska	8.90	9.01	7.71	8.21	8.25	8.21	8.28	8.30	8.16	8.29
Nevada	6.37	6.33	5.98	5.74	6.21	6.31	6.39	6.47	6.61	6.62
New Hampshire	11.71	11.60	11.46	11.24	11.56	13.28	13.09	13.40	13.41	12.18
New Jersey	15.38	15.49	15.64	15.10	15.39	15.26	15.59	15.40	15.25	15.01
New Mexico	10.58	10.53	11.22	10.92	11.15	11.36	11.71	11.67	11.96	11.18
New York	11.11	10.74	10.58	10.50	10.58	9.94	10.31	10.25	10.15	10.21
North Carolina	10.47	10.26	10.17	10.17	10.59	10.32	10.83	10.76	10.94	11.32
North Dakota	7.95	7.60	7.80	8.06	10.19	10.85	10.14	8.34	7.99	7.88
Ohio	11.14	10.76	10.60	10.75	10.88	10.88	11.35	11.27	11.27	11.36
Oklahoma	11.22	11.20	11.39	11.09	10.87	10.28	11.02	10.96	10.94	11.70
Oregon	11.37	10.89	10.91	11.06	11.02	11.20	11.10	12.17	11.44	11.76
Pennsylvania	11.26	10.81	10.63	10.58	10.75	10.79	11.36	11.18	11.71	11.63
Rhode Island	8.38	8.42	8.69	9.31	9.23	9.70	10.41	9.52	10.76	9.94
South Carolina	10.54	10.51	10.64	10.43	10.12	10.11	10.07	10.27	10.65	10.59
South Dakota	6.30	6.46	6.59	6.22	6.57	6.68	7.29	7.16	7.40	7.11
Tennessee	9.57	9.25	9.52	9.93	9.87	9.05	9.58	9.66	9.78	9.55
Texas	14.39	13.57	13.38	13.15	13.53	13.11	13.49	13.36	13.36	13.37
Utah	11.09	10.86	11.01	11.05	11.21	11.16	11.54	11.80	11.98	12.10
Vermont	11.47	10.77	10.35	10.24	9.78	10.77	10.70	10.60	10.88	9.22
Virginia	15.65	16.03	15.88	15.85	17.07	15.95	17.22	17.67	18.21	17.89
Washington	17.51	14.54	14.43	14.36	15.23	15.28	16.44	16.66	17.78	16.65

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	8.31	8.12	7.92	7.77	7.99	7.64	8.44	8.43	8.46	8.08
Wisconsin	9.82	10.07	10.18	10.21	10.47	10.38	10.61	10.58	10.88	10.99
Wyoming	8.30	7.91	7.92	8.02	9.20	8.30	9.01	8.94	9.17	9.18
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national total for employment in high-technology industries for the United States does not include U.S. territories; The national total for employment in all industries for the United States does not include U.S. territories.

Source(s):
U.S. Census Bureau, special tabulations of the Business Information Tracking Series (various years), data as of April 2017.

Recommended Citation: National Science Board. 2018. "Employment in High Science, Engineering, and Technology Employment Establishments as a Percentage of Total Employment." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/high-set-employment-to-total-employment

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Employment in High Science, Engineering, and Technology Employment Establishments as a Percentage of Total Employment

(Percent)

State	2013	2014
United States	12.19	12.22
Alabama	10.19	10.15
Alaska	14.89	14.56
Arizona	10.71	10.98
Arkansas	9.94	10.28
California	13.87	13.76
Colorado	15.68	15.62
Connecticut	13.53	13.32
Delaware	13.02	14.00
District of Columbia	15.78	16.70
Florida	8.67	8.77
Georgia	13.44	13.70
Hawaii	5.80	5.88
Idaho	10.94	10.83
Illinois	13.05	12.81
Indiana	9.20	9.26
Iowa	8.46	8.79
Kansas	13.53	13.59
Kentucky	8.46	8.46
Louisiana	9.18	9.37
Maine	8.12	8.03
Maryland	16.38	16.85
Massachusetts	15.52	15.23

State Indicators

State	2013	2014
Michigan	11.80	11.98
Minnesota	14.70	15.41
Mississippi	7.44	7.33
Missouri	11.71	11.86
Montana	7.36	7.27
Nebraska	8.30	8.31
Nevada	6.79	6.82
New Hampshire	12.50	12.13
New Jersey	14.61	14.89
New Mexico	10.99	10.81
New York	10.26	10.12
North Carolina	11.36	11.11
North Dakota	7.55	8.00
Ohio	11.20	10.92
Oklahoma	11.50	11.68
Oregon	11.88	11.81
Pennsylvania	11.81	12.11
Rhode Island	9.46	9.62
South Carolina	10.86	10.87
South Dakota	7.28	8.01
Tennessee	9.81	9.94
Texas	13.58	13.60
Utah	12.03	12.11
Vermont	10.81	9.40
Virginia	18.02	17.52
Washington	17.61	17.99

State Indicators

State	2013	2014
West Virginia	8.41	8.87
Wisconsin	11.08	11.48
Wyoming	9.06	9.30
Puerto Rico	NA	NA

NA not available

Note(s):
The national total for employment in high-technology industries for the United States does not include U.S. territories; The national total for employment in all industries for the United States does not include U.S. territories.

Source(s):
U.S. Census Bureau, special tabulations of the Business Information Tracking Series (various years), data as of April 2017.

Recommended Citation: National Science Board. 2018. "Employment in High Science, Engineering, and Technology Employment Establishments as a Percentage of Total Employment." Science and Engineering Indicators 2018, State Indicators. Alexandria, VA: National Science Foundation (NSB-2018-1). https://www.nsf.gov/statistics/state-indicators/indicator/high-set-employment-to-total-employment

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Employment in high SET employment establishments

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	13,563,122	13,356,596	13,427,902	13,733,632	14,152,153	13,870,679	13,721,708	13,428,176	13,713,661	13,996,627
Alabama	152,879	158,927	163,816	162,197	160,545	162,713	168,098	164,889	166,086	162,398
Alaska	21,851	22,107	24,737	27,306	30,766	30,794	35,017	36,813	37,728	35,066
Arizona	234,603	238,462	234,337	246,648	263,246	243,159	229,857	238,931	233,527	224,579
Arkansas	95,180	101,124	95,571	93,648	89,819	93,991	98,315	95,963	101,020	98,918
California	1,781,830	1,767,202	1,779,559	1,826,638	1,838,795	1,785,871	1,755,069	1,715,056	1,751,846	1,797,199
Colorado	274,979	265,613	264,410	272,952	302,681	291,442	303,483	303,701	307,513	322,294
Connecticut	210,114	204,107	201,027	198,450	208,417	200,106	197,221	195,895	191,230	197,544
Delaware	52,349	54,164	50,939	47,749	47,144	42,178	45,264	44,535	41,644	40,831
District of Columbia	54,314	57,250	57,487	57,297	59,284	61,916	63,384	67,828	75,451	71,598
Florida	576,274	587,452	591,958	618,540	632,765	614,504	596,954	585,325	596,783	615,379
Georgia	413,384	411,977	420,274	428,272	435,409	448,230	458,244	447,211	442,274	454,452
Hawaii	25,777	26,203	26,606	28,848	28,932	28,500	29,131	29,955	33,357	33,385
Idaho	55,706	53,738	58,606	59,082	60,056	56,624	54,671	54,000	53,650	53,805
Illinois	646,285	617,306	613,744	619,777	644,910	662,391	638,402	606,229	619,310	644,050
Indiana	219,598	219,694	226,498	224,644	240,529	227,568	223,527	220,867	221,887	225,058
Iowa	102,387	96,100	97,387	96,190	98,655	105,099	105,440	103,641	107,634	110,493
Kansas	155,023	153,046	146,190	146,849	160,739	169,118	165,982	156,591	145,528	148,934
Kentucky	121,838	119,167	118,969	125,204	132,400	129,162	125,398	122,950	120,985	124,003
Louisiana	137,029	129,722	137,201	143,846	145,219	145,702	145,735	141,384	144,944	153,365
Maine	35,184	36,221	35,371	37,934	39,004	40,028	40,126	37,840	37,860	38,912
Maryland	315,887	323,966	327,825	326,546	353,025	333,584	324,924	331,437	341,812	347,286
Massachusetts	460,984	455,749	472,540	496,630	495,550	464,759	448,579	442,407	442,954	462,845
Michigan	499,133	486,706	475,203	475,350	449,369	424,066	399,975	390,824	415,727	409,679

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	315,994	309,303	325,170	329,927	351,940	318,203	336,601	308,919	324,896	355,310
Mississippi	66,566	61,858	63,757	64,558	64,539	64,420	64,962	63,467	66,276	65,214
Missouri	254,299	257,290	256,195	263,494	265,680	272,023	270,126	254,464	258,856	256,605
Montana	20,296	20,452	25,721	26,958	23,340	23,651	24,113	24,377	24,596	24,526
Nebraska	68,975	69,724	59,563	64,779	65,653	66,152	64,555	63,881	65,035	67,815
Nevada	61,847	64,648	65,102	66,875	74,288	72,942	66,593	64,882	66,077	67,174
New Hampshire	63,264	63,907	64,410	64,914	66,235	79,105	74,361	75,371	74,275	66,840
New Jersey	550,224	558,921	562,279	550,515	563,587	556,378	536,800	518,502	514,716	516,348
New Mexico	60,399	61,149	66,785	68,627	71,616	72,838	72,124	70,027	71,429	66,469
New York	823,992	798,462	784,557	790,696	796,369	758,087	756,190	744,789	747,818	771,504
North Carolina	349,424	345,316	346,758	358,501	379,831	370,028	363,280	347,943	359,140	379,472
North Dakota	20,584	20,176	21,100	22,450	29,850	33,096	30,042	24,590	24,367	26,114
Ohio	531,491	512,352	504,873	518,835	520,079	514,408	506,413	490,703	499,511	516,671
Oklahoma	132,887	133,871	138,896	141,575	142,168	137,334	142,189	136,082	137,936	152,710
Oregon	152,140	147,549	153,728	161,641	162,690	166,086	151,464	164,454	153,404	160,347
Pennsylvania	566,406	551,971	540,313	549,180	558,193	564,569	572,650	556,446	594,463	600,936
Rhode Island	35,806	36,577	38,402	41,020	40,738	42,046	42,988	37,962	43,676	40,050
South Carolina	163,373	164,035	168,611	170,200	166,710	167,198	155,452	154,343	161,929	164,008
South Dakota	18,890	19,897	20,481	20,202	21,680	22,551	24,149	23,558	24,181	23,912
Tennessee	219,898	217,191	226,354	245,517	244,256	225,724	222,083	218,686	224,845	223,682
Texas	1,158,481	1,101,175	1,111,181	1,144,997	1,222,727	1,210,285	1,204,262	1,173,479	1,200,621	1,250,182
Utah	99,856	101,547	107,254	114,815	123,602	124,399	122,290	120,574	123,145	129,586
Vermont	29,402	27,572	27,066	27,001	26,216	29,372	28,320	27,984	28,749	24,473
Virginia	459,017	489,703	485,734	502,890	545,693	508,097	527,071	529,869	551,332	552,720
Washington	401,413	329,698	334,151	347,710	380,962	387,407	392,139	387,568	418,457	393,041
West Virginia	46,635	46,172	44,781	45,284	46,395	45,280	48,317	47,252	47,983	46,850

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	233,967	245,257	249,221	253,499	260,033	259,072	250,023	245,381	256,129	262,339
Wyoming	15,008	14,820	15,204	16,375	19,824	18,423	19,355	18,351	19,069	19,656
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Employment in high SET employment establishments

State	2013	2014
United States	14,409,449	14,792,490
Alabama	163,249	162,747
Alaska	39,678	38,832
Arizona	232,641	246,095
Arkansas	97,264	102,021
California	1,858,727	1,904,433
Colorado	327,861	340,646
Connecticut	199,364	197,778
Delaware	49,745	54,822
District of Columbia	77,478	82,732
Florida	618,275	652,750
Georgia	464,406	486,380
Hawaii	29,151	30,537
Idaho	55,762	57,435
Illinois	680,051	680,616
Indiana	235,020	240,949
Iowa	110,447	115,697
Kansas	155,888	160,013
Kentucky	127,488	129,863
Louisiana	154,851	161,040
Maine	39,549	39,534
Maryland	357,500	373,587
Massachusetts	476,265	470,335
Michigan	417,530	432,641

State Indicators

State	2013	2014
Minnesota	370,152	395,340
Mississippi	67,100	66,876
Missouri	275,817	285,000
Montana	25,799	26,442
Nebraska	68,880	70,671
Nevada	71,144	74,408
New Hampshire	68,972	68,295
New Jersey	509,945	524,948
New Mexico	65,675	65,129
New York	788,272	794,742
North Carolina	388,581	395,390
North Dakota	25,893	28,907
Ohio	513,523	506,273
Oklahoma	152,352	159,022
Oregon	165,829	170,489
Pennsylvania	611,879	636,149
Rhode Island	38,620	40,572
South Carolina	171,854	175,947
South Dakota	24,797	27,869
Tennessee	234,777	244,017
Texas	1,311,889	1,349,182
Utah	132,504	138,998
Vermont	28,384	24,548
Virginia	564,289	553,785
Washington	430,402	455,098
West Virginia	48,493	50,975

State Indicators

State	2013	2014
Wisconsin	266,197	281,496
Wyoming	19,240	20,439
Puerto Rico	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Total employment

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	113,373,663	115,049,548	116,292,371	119,892,505	120,579,971	120,933,454	114,509,643	111,956,736	113,378,235	115,913,516
Alabama	1,597,265	1,628,733	1,667,139	1,713,185	1,722,354	1,714,898	1,610,651	1,567,725	1,572,441	1,584,901
Alaska	216,707	223,099	231,009	241,568	244,560	248,274	252,978	254,694	254,963	258,201
Arizona	1,997,990	2,043,729	2,159,456	2,334,665	2,403,472	2,334,785	2,124,509	2,065,596	2,107,905	2,134,019
Arkansas	988,822	1,007,283	1,017,246	1,041,868	1,031,129	1,025,872	970,154	964,899	980,402	978,444
California	12,986,496	13,260,306	13,378,735	13,830,274	13,767,970	13,746,493	12,839,930	12,534,832	12,693,031	12,950,898
Colorado	1,883,883	1,908,126	1,935,926	2,018,905	2,075,404	2,121,945	2,006,202	1,955,624	1,971,399	2,036,403
Connecticut	1,550,615	1,537,160	1,529,452	1,585,660	1,538,977	1,551,373	1,467,731	1,436,754	1,442,509	1,462,907
Delaware	385,098	391,647	392,798	388,178	396,251	389,927	370,882	358,811	359,447	363,558
District of Columbia	422,912	436,791	439,576	446,502	454,512	466,152	466,466	463,070	477,073	482,929
Florida	6,548,276	6,863,196	7,105,684	7,534,165	7,423,816	7,367,042	6,860,186	6,624,005	6,733,860	6,931,736
Georgia	3,386,590	3,451,802	3,488,165	3,622,522	3,647,746	3,633,902	3,407,688	3,315,180	3,326,094	3,390,088
Hawaii	458,952	473,181	490,641	512,488	518,928	518,052	488,726	478,798	485,360	491,981
Idaho	466,379	488,557	519,193	546,108	544,337	537,706	500,409	487,901	482,861	493,387
Illinois	5,204,887	5,216,180	5,234,713	5,356,504	5,397,867	5,463,437	5,121,471	4,978,701	5,036,301	5,119,761
Indiana	2,540,554	2,586,282	2,610,423	2,672,558	2,647,861	2,619,567	2,451,118	2,400,566	2,440,517	2,510,868
Iowa	1,232,709	1,241,688	1,260,756	1,295,143	1,303,265	1,317,765	1,285,585	1,252,828	1,263,628	1,291,114
Kansas	1,109,699	1,115,930	1,115,891	1,142,487	1,168,907	1,185,876	1,145,903	1,127,221	1,112,653	1,134,052
Kentucky	1,471,622	1,489,285	1,513,930	1,551,791	1,550,035	1,570,686	1,486,216	1,456,297	1,462,080	1,480,509
Louisiana	1,603,492	1,623,431	1,617,284	1,592,682	1,645,547	1,654,417	1,638,765	1,600,202	1,616,320	1,644,841
Maine	488,788	494,165	497,280	508,061	503,725	508,905	488,733	480,302	479,617	487,009
Maryland	2,088,552	2,151,093	2,167,641	2,231,888	2,238,894	2,235,033	2,121,954	2,075,391	2,103,390	2,151,870
Massachusetts	2,974,164	2,979,251	2,995,940	3,043,643	3,073,572	3,076,457	2,967,056	2,928,453	2,958,936	3,042,329
Michigan	3,884,881	3,895,217	3,796,337	3,817,762	3,686,604	3,637,690	3,384,381	3,287,170	3,380,596	3,466,765

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	2,381,860	2,392,481	2,430,442	2,475,859	2,525,488	2,517,847	2,419,526	2,358,867	2,392,931	2,479,994
Mississippi	912,004	928,181	926,842	940,329	941,215	944,776	903,239	881,489	887,567	895,257
Missouri	2,387,245	2,420,994	2,425,006	2,467,626	2,457,551	2,472,861	2,358,446	2,292,521	2,296,481	2,319,334
Montana	302,932	314,806	326,788	342,461	353,717	359,721	341,384	338,366	335,871	343,706
Nebraska	774,858	774,187	772,952	789,117	795,489	805,633	779,585	769,404	797,372	818,126
Nevada	970,678	1,021,842	1,088,939	1,165,243	1,195,473	1,156,305	1,042,819	1,002,731	1,000,314	1,014,763
New Hampshire	540,132	550,869	562,248	577,322	573,026	595,473	568,245	562,382	553,956	548,691
New Jersey	3,578,674	3,609,297	3,594,465	3,644,967	3,661,138	3,646,897	3,442,813	3,365,857	3,375,743	3,439,597
New Mexico	571,057	580,443	595,102	628,472	642,068	641,010	615,686	600,269	597,441	594,336
New York	7,415,430	7,431,893	7,416,070	7,531,772	7,528,488	7,622,956	7,331,243	7,264,463	7,364,273	7,553,852
North Carolina	3,337,552	3,365,050	3,409,207	3,523,954	3,585,951	3,585,005	3,353,163	3,233,868	3,283,128	3,352,893
North Dakota	258,878	265,632	270,423	278,395	292,851	304,892	296,189	294,794	305,058	331,211
Ohio	4,769,406	4,761,492	4,762,024	4,824,859	4,781,448	4,728,989	4,460,283	4,353,123	4,431,859	4,548,588
Oklahoma	1,184,312	1,194,830	1,219,952	1,276,743	1,307,578	1,335,467	1,290,041	1,241,178	1,261,060	1,305,216
Oregon	1,338,380	1,355,101	1,409,055	1,461,339	1,476,970	1,482,627	1,364,099	1,350,947	1,340,554	1,363,388
Pennsylvania	5,028,650	5,106,171	5,082,019	5,189,349	5,194,723	5,233,871	5,042,545	4,975,537	5,074,535	5,167,986
Rhode Island	427,369	434,600	442,047	440,715	441,293	433,626	412,919	398,960	405,835	402,869
South Carolina	1,550,227	1,560,401	1,584,499	1,631,690	1,647,759	1,654,494	1,543,237	1,502,540	1,520,505	1,549,055
South Dakota	299,723	307,944	310,739	325,045	330,071	337,830	331,060	328,930	326,875	336,479
Tennessee	2,298,836	2,346,903	2,377,958	2,472,939	2,475,155	2,493,070	2,317,168	2,262,886	2,299,621	2,343,251
Texas	8,049,300	8,116,465	8,303,141	8,709,575	9,038,702	9,232,889	8,924,103	8,785,658	8,983,970	9,349,146
Utah	900,331	934,939	974,522	1,038,879	1,102,528	1,114,776	1,059,980	1,021,872	1,028,325	1,070,663
Vermont	256,401	256,040	261,614	263,759	268,023	272,847	264,673	264,076	264,263	265,358
Virginia	2,932,471	3,054,221	3,059,504	3,173,767	3,196,510	3,186,112	3,060,141	2,999,409	3,027,116	3,088,730
Washington	2,292,462	2,268,155	2,315,651	2,420,633	2,500,835	2,536,196	2,385,409	2,325,825	2,353,622	2,361,207
West Virginia	561,317	568,581	565,405	583,033	580,953	592,356	572,773	560,311	567,496	579,876

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	2,382,979	2,434,580	2,448,641	2,481,998	2,483,664	2,496,839	2,356,459	2,320,269	2,353,169	2,387,322
Wyoming	180,866	187,318	191,901	204,058	215,571	221,835	214,721	205,184	207,912	214,052
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

Total employment

State	2013	2014
United States	118,241,935	121,057,809
Alabama	1,602,593	1,603,821
Alaska	266,526	266,769
Arizona	2,173,051	2,240,697
Arkansas	978,048	992,327
California	13,399,069	13,835,861
Colorado	2,090,842	2,181,042
Connecticut	1,473,000	1,484,363
Delaware	382,083	391,534
District of Columbia	490,999	495,529
Florida	7,131,772	7,440,741
Georgia	3,456,056	3,551,463
Hawaii	502,512	519,007
Idaho	509,891	530,347
Illinois	5,210,935	5,313,018
Indiana	2,555,767	2,602,617
Iowa	1,304,895	1,316,385
Kansas	1,152,041	1,177,786
Kentucky	1,507,300	1,535,198
Louisiana	1,687,212	1,718,046
Maine	487,141	492,395
Maryland	2,182,008	2,216,640
Massachusetts	3,069,578	3,087,228
Michigan	3,537,156	3,610,530

State Indicators

State	2013	2014
Minnesota	2,517,670	2,565,582
Mississippi	902,348	911,918
Missouri	2,354,808	2,403,955
Montana	350,338	363,519
Nebraska	830,032	850,921
Nevada	1,047,716	1,090,531
New Hampshire	551,753	563,243
New Jersey	3,490,046	3,526,394
New Mexico	597,337	602,607
New York	7,686,285	7,855,415
North Carolina	3,420,207	3,560,397
North Dakota	342,780	361,141
Ohio	4,585,180	4,635,451
Oklahoma	1,325,225	1,361,044
Oregon	1,396,367	1,443,059
Pennsylvania	5,179,896	5,254,972
Rhode Island	408,354	421,612
South Carolina	1,582,582	1,619,248
South Dakota	340,600	347,841
Tennessee	2,393,073	2,453,745
Texas	9,658,669	9,917,522
Utah	1,101,534	1,147,846
Vermont	262,551	261,067
Virginia	3,131,804	3,160,306
Washington	2,443,661	2,529,057
West Virginia	576,640	574,916

State Indicators

State	2013	2014
Wisconsin	2,401,576	2,451,370
Wyoming	212,428	219,786
Puerto Rico	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

S-55 Average Annual Federal Small Business Innovation Research and Small Business Technology Transfer Funding per $1 Million of Gross Domestic Product

Description

Funds awarded through the federal Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs support R&D and technological innovation in companies with 500 or fewer employees. This indicator represents the extent to which small business firms in a state are pursuing research projects that meet federal R&D needs and attract federal support.

Phase I awards support small business efforts to establish the technical merit, feasibility, and commercial potential of a proposed research effort. SBIR and STTR Phase I awards normally do not exceed $150,000 total costs for 6 months. Phase II awards support businesses to further their R&D toward commercialization. Generally, only Phase I awardees are eligible for a Phase II award. SBIR and STTR Phase II awards normally do not exceed $1,000,000 total costs for 2 years. The total award dollars include both Phase I and Phase II SBIR and STTR awards.

Because of year-to-year fluctuations, this indicator is calculated using 3-year moving averages. The 3-year average annual SBIR and STTR award dollars won by small businesses in a state are divided by the 3-year average annual gross domestic product (GDP) for the same period. All data are expressed in current dollars.

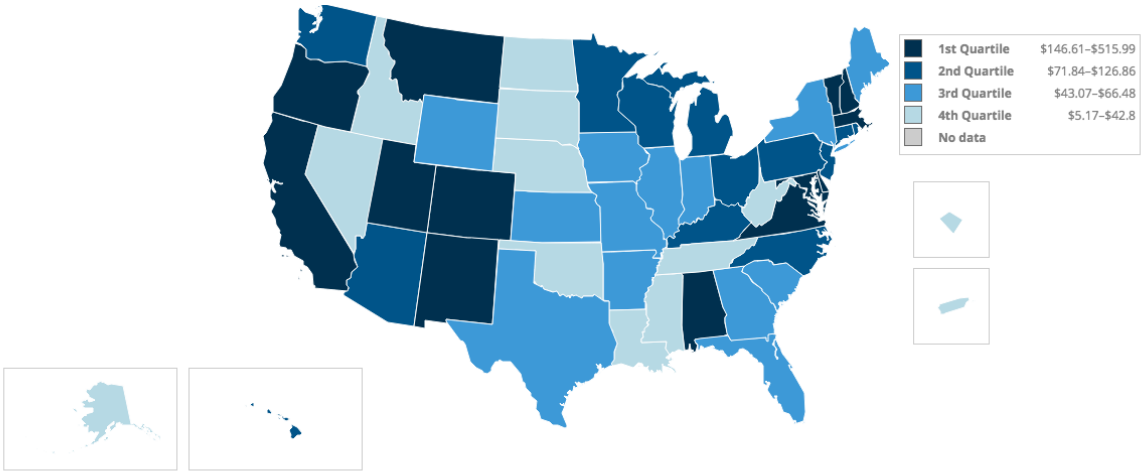
The amount of SBIR/STTR funding that states receive relative to the size of their economies varies greatly across states, with states in the highest quartile often measuring more than an order of magnitude greater than those in the lowest quartile. Total federal SBIR/STTR award funding has remained relatively flat since the late 2000s; as GDP has increased, the value of this indicator has decreased nationally and for most states.

Data sources: Small Business Administration, Office of Technology, Small Business Technology Transfer program and Small Business Innovation Research program statistics; U.S. Bureau of Economic Analysis, Gross Domestic Product data; Government of Puerto Rico, Office of the Governor, Gross Domestic Product data.

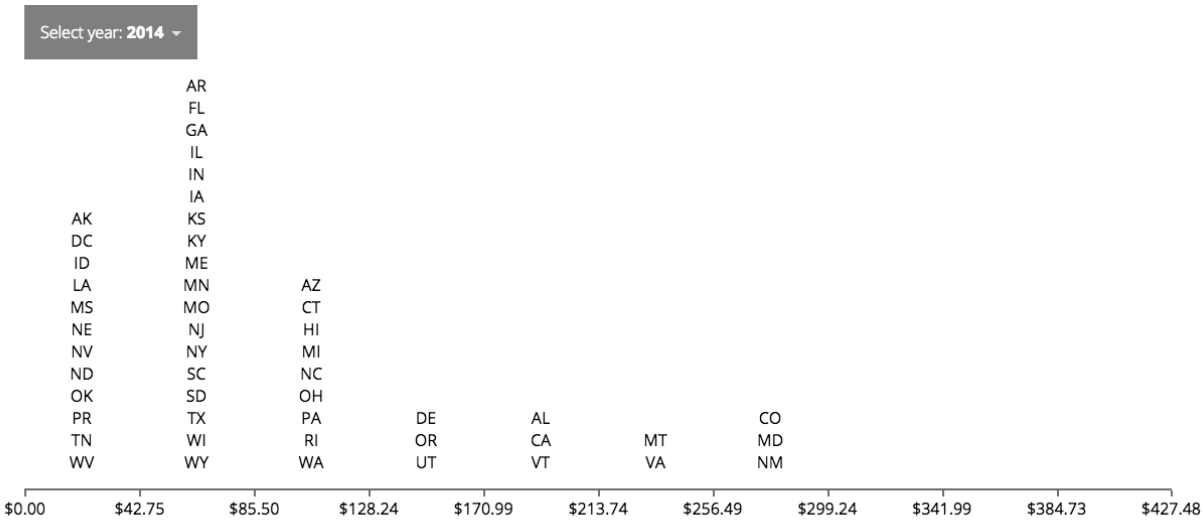
State Indicators

S-55 Average Annual Federal Small Business Innovation Research and Small Business Technology Transfer Funding per $1 Million of Gross Domestic Product

2014



Distribution of states across indicator values, 2014



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

Average Annual Federal Small Business Innovation Research and Small Business Technology Transfer Funding per $1 Million of Gross Domestic Product

(Dollars)

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
United States	79.58	88.22	111.19	121.53	114.79	122.84	167.31	180.65	154.77	164.88
Alabama	102.71	109.10	170.02	209.40	180.46	203.33	266.79	299.84	292.65	280.79
Alaska	8.01	7.06	14.41	15.79	21.87	23.95	15.31	9.23	18.44	23.54
Arizona	70.69	83.79	100.21	136.46	134.44	155.31	173.09	189.19	149.88	163.39
Arkansas	12.31	10.85	5.67	7.58	23.98	26.20	48.07	106.84	96.19	92.72
California	142.98	159.46	206.67	215.65	179.78	190.79	260.26	267.27	215.36	236.83
Colorado	167.99	223.45	273.60	307.88	342.72	339.24	443.70	486.61	439.35	452.62
Connecticut	161.52	194.36	227.42	204.32	132.35	118.37	173.45	160.52	129.69	154.97
Delaware	63.04	73.32	121.07	114.82	94.04	102.27	103.04	148.70	167.67	172.49
District of Columbia	17.55	31.78	37.42	43.26	65.60	82.88	94.10	62.44	44.13	22.17
Florida	38.42	37.90	44.53	52.37	49.23	55.13	73.88	80.20	74.61	80.49
Georgia	21.71	21.64	22.39	34.41	42.20	41.74	55.63	62.32	58.24	70.61
Hawaii	60.89	67.07	76.80	79.42	91.71	91.81	129.44	159.34	133.59	152.97
Idaho	13.25	16.35	32.69	22.23	32.04	62.71	101.78	110.37	71.18	51.75
Illinois	31.57	27.43	26.15	32.27	36.30	39.33	49.76	56.85	63.07	73.76
Indiana	14.67	14.87	25.20	28.64	28.38	31.47	55.85	80.28	74.80	92.59
Iowa	24.44	8.35	4.21	9.82	18.52	31.14	46.34	45.18	45.17	52.81
Kansas	9.64	16.86	36.99	35.12	44.50	45.43	57.46	62.69	45.95	36.11
Kentucky	4.36	9.19	16.99	24.77	21.92	31.84	39.16	40.30	53.28	82.40
Louisiana	9.73	11.43	13.12	14.15	11.73	19.04	22.22	29.38	19.41	27.53
Maine	38.68	71.85	72.83	50.45	59.03	84.98	141.59	211.22	156.79	95.61
Maryland	189.84	227.78	262.46	283.96	296.32	307.33	438.00	427.48	345.04	404.27

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Massachusetts	476.81	533.80	629.23	679.09	636.66	640.15	849.45	911.95	748.03	783.77
Michigan	40.60	45.67	61.21	84.11	66.48	63.91	104.33	136.25	140.83	173.42
Minnesota	64.73	58.78	103.70	102.06	78.65	94.95	124.66	116.07	113.49	125.55
Mississippi	8.76	8.27	13.20	13.16	29.51	37.71	48.13	49.45	17.70	30.21
Missouri	19.66	15.18	11.45	22.60	34.41	29.54	42.80	53.96	47.61	54.03
Montana	29.68	66.80	106.51	83.13	187.48	313.74	330.72	336.86	285.94	256.06
Nebraska	24.38	28.25	11.34	17.71	30.04	38.96	46.58	58.88	36.73	57.11
Nevada	65.70	35.35	21.55	35.31	26.22	53.46	90.48	76.47	38.44	39.81
New Hampshire	196.64	289.74	352.30	378.11	300.66	342.92	463.10	471.50	562.52	552.08
New Jersey	64.34	81.69	101.13	98.05	93.41	99.55	130.32	132.24	109.63	133.39
New Mexico	359.70	345.95	352.48	364.04	375.28	372.19	395.28	411.70	349.06	366.09
New York	47.22	54.11	68.93	62.70	57.25	60.34	91.82	104.48	91.58	108.22
North Carolina	38.04	40.38	46.98	57.36	55.35	62.62	86.51	106.67	106.28	130.11
North Dakota	7.98	26.01	38.39	36.61	64.42	101.37	105.40	86.57	32.94	61.58
Ohio	51.31	59.83	92.51	112.18	126.80	135.28	177.33	215.19	189.68	171.95
Oklahoma	18.47	18.14	21.32	30.91	38.14	44.02	77.23	77.02	52.14	48.18
Oregon	109.46	113.27	150.42	158.50	140.75	131.14	165.82	224.85	175.10	191.93
Pennsylvania	60.43	63.50	82.34	101.62	97.27	106.22	160.58	196.70	176.95	155.66
Rhode Island	67.75	81.73	74.45	77.84	78.48	121.16	207.74	205.48	168.94	185.54
South Carolina	0.83	1.02	8.11	13.85	21.04	47.77	67.78	65.69	35.53	55.91
South Dakota	1.23	2.05	24.36	45.03	67.55	57.58	56.46	31.45	18.84	22.13
Tennessee	54.46	50.52	64.51	60.99	57.19	61.96	57.05	64.04	66.74	65.83
Texas	36.45	40.04	54.87	60.52	59.08	62.44	100.43	114.38	82.42	73.02
Utah	196.35	214.25	161.85	165.71	158.54	170.14	190.10	186.58	154.10	156.39
Vermont	97.73	90.33	206.90	189.25	205.44	166.32	254.10	269.37	257.78	281.88
Virginia	151.68	177.60	260.93	286.63	256.77	282.22	364.10	376.69	380.74	380.47

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Washington	73.53	90.55	128.98	129.72	123.82	132.50	196.79	196.90	154.74	142.68
West Virginia	7.91	0.53	2.47	17.14	31.49	52.52	141.93	128.43	61.10	46.88
Wisconsin	34.17	34.56	50.44	54.28	55.58	67.53	98.19	117.38	113.45	137.54
Wyoming	7.72	0.80	9.93	74.04	84.45	149.05	138.30	131.67	103.24	68.36
Puerto Rico	2.55	0.00	0.00	1.04	4.58	6.12	2.83	5.40	0.09	2.26

Note(s):
The national SBIR and STTR funding total for the United States includes U.S. territories; The national GDP total for the United States includes Puerto Rico.

Source(s):
Small Business Administration, Office of Technology, Small Business Technology Transfer program and Small Business Innovation Research program statistics (various years), data as of October 2017; Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Average Annual Federal Small Business Innovation Research and Small Business Technology Transfer Funding per $1 Million of Gross Domestic Product

(Dollars)

State	2010	2012	2014
United States	156.00	134.68	117.17
Alabama	256.27	231.25	210.41
Alaska	15.31	14.73	12.25
Arizona	173.20	147.41	116.44
Arkansas	83.86	73.44	49.11
California	232.50	213.54	178.18
Colorado	395.32	292.24	287.04
Connecticut	142.74	117.06	122.79
Delaware	176.70	144.35	146.61
District of Columbia	16.70	23.84	32.25
Florida	84.24	75.31	60.97
Georgia	65.60	76.54	53.22
Hawaii	154.59	123.78	91.78
Idaho	95.25	61.29	29.59
Illinois	72.23	62.74	58.35
Indiana	72.00	69.52	56.40
Iowa	41.18	49.50	50.72
Kansas	40.84	53.57	44.38
Kentucky	82.25	88.90	71.84
Louisiana	21.26	15.57	11.40
Maine	107.79	50.25	49.40
Maryland	364.64	330.74	290.43

State Indicators

State	2010	2012	2014
Massachusetts	711.17	590.73	502.59
Michigan	159.14	107.33	107.28
Minnesota	99.74	101.17	84.26
Mississippi	21.55	6.29	7.94
Missouri	56.06	48.66	43.07
Montana	253.76	232.84	246.95
Nebraska	67.88	44.24	29.85
Nevada	45.19	48.84	35.88
New Hampshire	519.07	535.38	515.99
New Jersey	119.08	96.97	80.03
New Mexico	342.31	320.24	297.59
New York	95.23	78.09	66.48
North Carolina	132.97	123.46	108.06
North Dakota	50.87	26.97	16.23
Ohio	181.86	150.84	126.86
Oklahoma	61.11	43.11	29.23
Oregon	222.09	200.42	158.05
Pennsylvania	155.11	130.53	123.85
Rhode Island	178.35	151.58	120.96
South Carolina	54.37	55.00	65.92
South Dakota	20.46	31.92	42.80
Tennessee	66.68	52.87	39.34
Texas	71.35	61.48	51.93
Utah	132.61	183.38	157.30
Vermont	245.45	220.19	202.94
Virginia	335.39	267.83	243.05

State Indicators

State	2010	2012	2014
Washington	138.10	104.35	93.27
West Virginia	48.74	31.71	21.09
Wisconsin	129.41	106.81	75.24
Wyoming	73.68	62.71	64.08
Puerto Rico	2.17	0.49	5.17

Note(s):
The national SBIR and STTR funding total for the United States includes U.S. territories; The national GDP total for the United States includes Puerto Rico.

Source(s):
Small Business Administration, Office of Technology, Small Business Technology Transfer program and Small Business Innovation Research program statistics (various years), data as of October 2017; Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Average SBIR and STTR funding

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
United States	471,155	578,173	818,781	1,031,649	1,110,285	1,305,847	1,939,703	2,362,913	2,221,572	2,423,459
Alabama	7,837	9,307	16,212	21,933	20,660	25,058	36,395	46,795	49,462	48,265
Alaska	187	164	364	403	551	680	495	369	918	1,256
Arizona	5,341	7,607	11,017	18,007	20,875	26,807	33,258	42,881	38,330	40,570
Arkansas	514	521	310	457	1,581	1,867	3,816	9,631	9,364	9,297
California	112,993	132,628	188,556	230,386	225,447	265,221	399,049	471,398	417,796	462,767
Colorado	13,587	21,412	30,852	41,711	56,764	63,627	88,166	106,505	107,298	113,974
Connecticut	16,551	21,156	27,703	28,391	20,807	20,609	32,490	33,816	30,099	36,486
Delaware	1,357	1,761	3,330	3,790	3,871	4,759	5,094	8,011	9,404	9,781
District of Columbia	727	1,432	1,766	2,212	3,752	5,360	6,928	5,206	4,085	2,214
Florida	10,360	11,575	15,512	21,053	22,922	29,212	44,254	55,761	56,313	59,168
Georgia	3,245	3,749	4,563	8,338	12,073	13,226	19,110	24,026	23,952	28,924
Hawaii	2,091	2,465	2,900	3,009	3,616	3,983	6,406	9,262	8,637	10,213
Idaho	254	377	895	665	1,107	2,398	4,180	5,222	3,832	2,846
Illinois	9,194	8,909	9,554	13,441	16,882	19,779	26,603	33,475	40,167	47,557
Indiana	1,713	1,984	3,798	4,948	5,554	6,572	12,628	19,807	19,951	25,241
Iowa	1,433	544	312	813	1,661	3,020	5,019	5,562	6,073	7,332
Kansas	523	1,007	2,444	2,622	3,688	4,061	5,508	6,634	5,575	4,582
Kentucky	316	756	1,564	2,573	2,481	3,778	5,049	5,799	8,284	13,215
Louisiana	915	1,112	1,473	1,690	1,486	2,619	3,465	5,666	4,113	6,078
Maine	915	1,822	2,038	1,549	2,048	3,298	6,027	9,820	7,720	4,838
Maryland	22,009	28,727	36,517	45,186	53,731	63,005	100,985	112,325	98,783	122,554
Massachusetts	77,509	93,712	124,325	157,871	170,523	190,104	268,846	314,830	280,477	306,662
Michigan	8,159	10,503	15,883	24,876	22,219	22,724	39,068	53,291	55,455	65,464

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Minnesota	6,977	7,066	14,144	16,024	13,998	18,688	27,058	28,055	29,253	33,162
Mississippi	361	394	722	778	1,879	2,547	3,543	4,051	1,622	2,886
Missouri	2,150	1,846	1,599	3,629	6,172	5,693	8,817	12,096	11,482	13,623
Montana	416	1,070	1,871	1,594	3,950	7,215	8,571	10,282	10,082	9,506
Nebraska	874	1,140	520	899	1,641	2,325	3,098	4,350	2,992	5,027
Nevada	2,186	1,429	1,069	2,093	1,863	4,348	8,522	8,977	4,982	4,913
New Hampshire	4,907	8,005	11,230	14,207	12,848	16,183	23,939	26,963	34,269	34,561
New Jersey	14,306	19,681	26,739	29,667	31,838	37,550	53,234	58,763	52,543	65,055
New Mexico	10,735	12,823	15,082	17,900	19,875	21,091	25,347	30,568	28,530	31,146
New York	23,769	29,086	40,394	43,347	45,129	52,308	84,312	106,559	100,918	125,055
North Carolina	5,647	6,846	9,060	13,016	14,575	18,130	27,273	38,281	42,478	53,734
North Dakota	96	349	584	600	1,110	1,933	2,309	2,144	964	2,077
Ohio	12,178	15,800	27,463	37,901	48,137	54,487	76,492	100,326	92,678	84,327
Oklahoma	1,106	1,185	1,531	2,446	3,277	4,231	8,220	9,672	7,641	7,226
Oregon	6,546	7,861	12,548	15,843	15,521	15,536	21,620	33,985	30,085	35,384
Pennsylvania	15,516	17,954	25,651	35,669	38,029	45,053	73,781	99,413	98,225	90,803
Rhode Island	1,492	1,923	1,895	2,228	2,558	4,412	8,507	9,410	8,075	8,931
South Carolina	57	78	703	1,356	2,318	5,744	8,874	9,438	5,608	9,072
South Dakota	17	33	445	887	1,450	1,413	1,603	987	659	827
Tennessee	5,572	6,081	8,819	9,455	9,960	11,607	11,735	14,615	16,263	16,416
Texas	14,444	17,832	28,078	36,688	40,824	48,004	84,763	113,920	96,458	88,927
Utah	6,568	8,343	7,626	9,428	10,450	12,462	15,294	17,817	17,383	18,090
Vermont	1,171	1,182	2,914	2,922	3,544	3,216	5,444	6,332	6,413	7,294
Virginia	23,007	29,821	48,799	62,158	64,492	79,579	113,433	134,326	148,559	155,609
Washington	9,289	12,912	20,311	24,770	27,988	32,049	51,012	57,992	52,457	50,527
West Virginia	230	17	89	661	1,306	2,314	6,699	6,843	3,632	3,027

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Wisconsin	3,622	4,175	6,863	8,384	9,631	12,785	20,199	26,533	27,378	34,038
Wyoming	100	11	147	1,121	1,353	2,756	2,950	3,669	3,850	2,714
Puerto Rico	84	0	0	52	269	419	216	453	8	217

Science and Engineering Indicators 2018

State Indicators

Average SBIR and STTR funding

State	2010	2012	2014
United States	2,423,549	2,253,773	2,107,836
Alabama	46,235	43,984	42,029
Alaska	887	879	663
Arizona	44,141	40,093	33,969
Arkansas	8,930	8,362	5,849
California	475,347	477,213	442,096
Colorado	103,954	84,258	90,162
Connecticut	33,697	28,297	31,290
Delaware	10,486	9,028	10,025
District of Columbia	1,788	2,685	3,915
Florida	62,918	60,022	53,719
Georgia	27,893	34,976	26,686
Hawaii	10,861	9,242	7,384
Idaho	5,401	3,723	1,933
Illinois	49,227	45,612	44,960
Indiana	20,972	21,681	18,793
Iowa	6,161	8,091	8,867
Kansas	5,532	7,715	6,697
Kentucky	14,115	16,119	13,761
Louisiana	5,034	3,726	2,718
Maine	5,588	2,701	2,831
Maryland	118,055	112,713	106,001
Massachusetts	297,275	262,937	243,776
Michigan	63,718	46,206	50,174

State Indicators

State	2010	2012	2014
Minnesota	28,103	30,823	27,496
Mississippi	2,113	648	841
Missouri	14,562	13,369	12,570
Montana	10,312	10,139	11,269
Nebraska	6,655	4,731	3,392
Nevada	5,598	6,289	5,038
New Hampshire	33,968	36,871	38,394
New Jersey	59,424	51,338	45,033
New Mexico	30,293	29,429	27,898
New York	118,582	104,696	95,841
North Carolina	56,836	56,288	53,744
North Dakota	2,219	1,502	907
Ohio	95,652	85,799	77,151
Oklahoma	9,942	8,006	5,531
Oregon	43,531	39,876	34,068
Pennsylvania	95,648	86,260	87,442
Rhode Island	8,921	7,928	6,726
South Carolina	9,222	10,034	13,244
South Dakota	842	1,416	2,007
Tennessee	17,646	15,248	12,382
Texas	95,752	94,041	83,822
Utah	16,345	24,560	23,383
Vermont	6,750	6,330	6,139
Virginia	144,349	120,476	116,268
Washington	51,500	42,420	41,700
West Virginia	3,398	2,294	1,552

State Indicators

State	2010	2012	2014
Wisconsin	33,981	30,081	22,621
Wyoming	2,967	2,571	2,544
Puerto Rico	217	50	535
Science and Engineering Indicators 2018			

State Indicators

Average state GDP

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
United States	5,920,316	6,553,664	7,363,886	8,488,872	9,672,085	10,630,676	11,593,313	13,080,020	14,353,804	14,698,296
Alabama	76,304	85,307	95,354	104,744	114,483	123,238	136,417	156,069	169,012	171,890
Alaska	23,359	23,214	25,264	25,522	25,189	28,390	32,332	39,979	49,779	53,353
Arizona	75,557	90,785	109,937	131,956	155,275	172,602	192,142	226,651	255,741	248,298
Arkansas	41,757	48,000	54,668	60,306	65,933	71,252	79,377	90,140	97,354	100,270
California	790,288	831,722	912,374	1,068,353	1,254,040	1,390,142	1,533,275	1,763,766	1,939,990	1,953,976
Colorado	80,880	95,823	112,765	135,478	165,626	187,555	198,707	218,872	244,218	251,809
Connecticut	102,468	108,851	121,813	138,951	157,208	174,104	187,319	210,666	232,090	235,434
Delaware	21,527	24,018	27,505	33,007	41,163	46,533	49,437	53,875	56,087	56,705
District of Columbia	41,435	45,066	47,191	51,132	57,196	64,669	73,627	83,374	92,571	99,873
Florida	269,644	305,414	348,343	401,988	465,603	529,866	599,004	695,238	754,769	735,058
Georgia	149,489	173,239	203,794	242,294	286,068	316,872	343,517	385,537	411,257	409,642
Hawaii	34,340	36,752	37,761	37,889	39,427	43,381	49,491	58,127	64,652	66,766
Idaho	19,163	23,062	27,377	29,918	34,553	38,241	41,070	47,314	53,839	54,998
Illinois	291,243	324,762	365,309	416,546	465,026	502,916	534,674	588,881	636,865	644,735
Indiana	116,737	133,386	150,696	172,768	195,702	208,847	226,118	246,731	266,718	272,601
Iowa	58,645	65,139	74,039	82,798	89,706	96,982	108,298	123,112	134,433	138,836
Kansas	54,252	59,720	66,067	74,656	82,877	89,384	95,854	105,829	121,323	126,879
Kentucky	72,541	82,265	92,059	103,860	113,210	118,644	128,929	143,891	155,474	160,380
Louisiana	94,037	97,292	112,267	119,476	126,683	137,521	155,923	192,855	211,914	220,752
Maine	23,655	25,358	27,984	30,703	34,693	38,809	42,566	46,492	49,237	50,603
Maryland	115,933	126,120	139,135	159,130	181,326	205,009	230,561	262,760	286,295	303,148
Massachusetts	162,556	175,557	197,583	232,474	267,839	296,966	316,495	345,229	374,955	391,265
Michigan	200,959	229,970	259,473	295,765	334,221	355,555	374,467	391,127	393,781	377,479

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Minnesota	107,792	120,211	136,390	157,000	177,973	196,812	217,050	241,710	257,748	264,134
Mississippi	41,210	47,651	54,682	59,112	63,681	67,538	73,608	81,916	91,616	95,538
Missouri	109,339	121,587	139,628	160,602	179,344	192,728	205,997	224,164	241,165	252,130
Montana	14,018	16,018	17,567	19,174	21,069	22,997	25,916	30,523	35,259	37,124
Nebraska	35,854	40,357	45,874	50,758	54,619	59,674	66,505	73,882	81,449	88,022
Nevada	33,273	40,421	49,614	59,274	71,047	81,339	94,185	117,386	129,614	123,426
New Hampshire	24,954	27,628	31,876	37,574	42,733	47,192	51,693	57,185	60,920	62,602
New Jersey	222,349	240,912	264,411	302,576	340,849	377,179	408,480	444,370	479,265	487,709
New Mexico	29,844	37,066	42,788	49,170	52,960	56,668	64,124	74,248	81,733	85,078
New York	503,411	537,510	586,044	691,327	788,219	866,839	918,187	1,019,894	1,102,012	1,155,514
North Carolina	148,454	169,544	192,857	226,925	263,325	289,505	315,273	358,876	399,691	412,983
North Dakota	12,032	13,416	15,212	16,388	17,231	19,069	21,906	24,766	29,265	33,729
Ohio	237,346	264,062	296,861	337,859	379,642	402,763	431,359	466,228	488,589	490,420
Oklahoma	59,882	65,337	71,809	79,125	85,912	96,107	106,429	125,585	146,558	149,986
Oregon	59,800	69,398	83,418	99,957	110,275	118,471	130,385	151,142	171,813	184,359
Pennsylvania	256,764	282,718	311,531	350,990	390,972	424,157	459,452	505,414	555,096	583,353
Rhode Island	22,022	23,528	25,453	28,624	32,593	36,414	40,950	45,796	47,799	48,134
South Carolina	68,335	76,689	86,688	97,928	110,185	120,240	130,930	143,679	157,832	162,270
South Dakota	13,797	16,107	18,268	19,699	21,466	24,540	28,391	31,387	34,977	37,370
Tennessee	102,318	120,374	136,706	155,033	174,146	187,319	205,713	228,216	243,690	249,357
Texas	396,306	445,389	511,743	606,163	690,950	768,860	844,016	995,995	1,170,299	1,217,767
Utah	33,451	38,941	47,118	56,893	65,913	73,247	80,454	95,492	112,804	115,675
Vermont	11,982	13,085	14,084	15,440	17,251	19,336	21,425	23,507	24,878	25,876
Virginia	151,685	167,912	187,016	216,856	251,166	281,974	311,547	356,596	390,183	408,994
Washington	126,335	142,591	157,471	190,948	226,040	241,886	259,217	294,530	338,994	354,123
West Virginia	29,085	32,294	35,988	38,565	41,479	44,057	47,200	53,281	59,442	64,567

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Wisconsin	105,994	120,811	136,064	154,461	173,286	189,337	205,712	226,034	241,322	247,472
Wyoming	12,954	13,680	14,810	15,140	16,022	18,491	21,331	27,865	37,292	39,701
Puerto Rico	32,964	37,603	43,158	49,896	58,690	68,460	76,277	83,838	90,147	96,135

Science and Engineering Indicators 2018

State Indicators

Average state GDP

State	2010	2012	2014
United States	15,535,771	16,733,985	17,989,859
Alabama	180,418	190,200	199,748
Alaska	57,928	59,655	54,121
Arizona	254,851	271,984	291,730
Arkansas	106,488	113,868	119,096
California	2,044,461	2,234,810	2,481,210
Colorado	262,964	288,314	314,110
Connecticut	236,074	241,740	254,823
Delaware	59,345	62,542	68,380
District of Columbia	107,085	112,628	121,414
Florida	746,896	797,040	881,006
Georgia	425,223	456,939	501,468
Hawaii	70,258	74,666	80,450
Idaho	56,702	60,744	65,336
Illinois	681,541	726,962	770,477
Indiana	291,275	311,857	333,232
Iowa	149,595	163,465	174,806
Kansas	135,463	144,007	150,896
Kentucky	171,618	181,310	191,563
Louisiana	236,741	239,363	238,429
Maine	51,842	53,751	57,311
Maryland	323,761	340,791	364,984
Massachusetts	418,011	445,102	485,044
Michigan	400,386	430,518	467,686

State Indicators

State	2010	2012	2014
Minnesota	281,751	304,652	326,318
Mississippi	98,043	103,053	105,945
Missouri	259,778	274,730	291,881
Montana	40,637	43,545	45,632
Nebraska	98,046	106,942	113,630
Nevada	123,866	128,766	140,399
New Hampshire	65,440	68,869	74,408
New Jersey	499,045	529,428	562,677
New Mexico	88,495	91,896	93,745
New York	1,245,157	1,340,788	1,441,565
North Carolina	427,444	455,926	497,376
North Dakota	43,620	55,695	55,881
Ohio	525,952	568,822	608,175
Oklahoma	162,695	185,693	189,238
Oregon	196,007	198,964	215,556
Pennsylvania	616,656	660,823	706,040
Rhode Island	50,021	52,303	55,603
South Carolina	169,622	182,430	200,905
South Dakota	41,162	44,362	46,894
Tennessee	264,650	288,392	314,765
Texas	1,342,008	1,529,497	1,614,039
Utah	123,254	133,931	148,650
Vermont	27,501	28,748	30,251
Virginia	430,393	449,816	478,379
Washington	372,922	406,529	447,087
West Virginia	69,723	72,351	73,587

State Indicators

State	2010	2012	2014
Wisconsin	262,586	281,626	300,671
Wyoming	40,268	41,000	39,702
Puerto Rico	100,099	102,154	103,541
Science and Engineering Indicators 2018			

State Indicators

S-56 Average Annual Federal Small Business Innovation Research Funding per $1 Million of Gross Domestic Product

Description

Funds awarded through the federal Small Business Innovation Research (SBIR) program support R&D and technological innovation in companies with 500 or fewer employees. This indicator represents the extent to which small business firms in a state are pursuing research projects that meet federal R&D needs and attract federal support.

Phase I awards support small business efforts to establish the technical merit, feasibility, and commercial potential of a proposed research effort. SBIR Phase I awards normally do not exceed $150,000 total costs for 6 months. Phase II awards support businesses to further their R&D toward commercialization. Generally, only Phase I awardees are eligible for a Phase II award. SBIR Phase II awards normally do not exceed $1,000,000 total costs for 2 years. The total award dollars include both Phase I and Phase II SBIR awards.

Because of year-to-year fluctuations, this indicator is calculated using 3-year moving averages. The 3-year average annual SBIR award dollars won by small businesses in a state are divided by the 3-year average annual gross domestic product (GDP) for the same period. All data are expressed in current dollars.

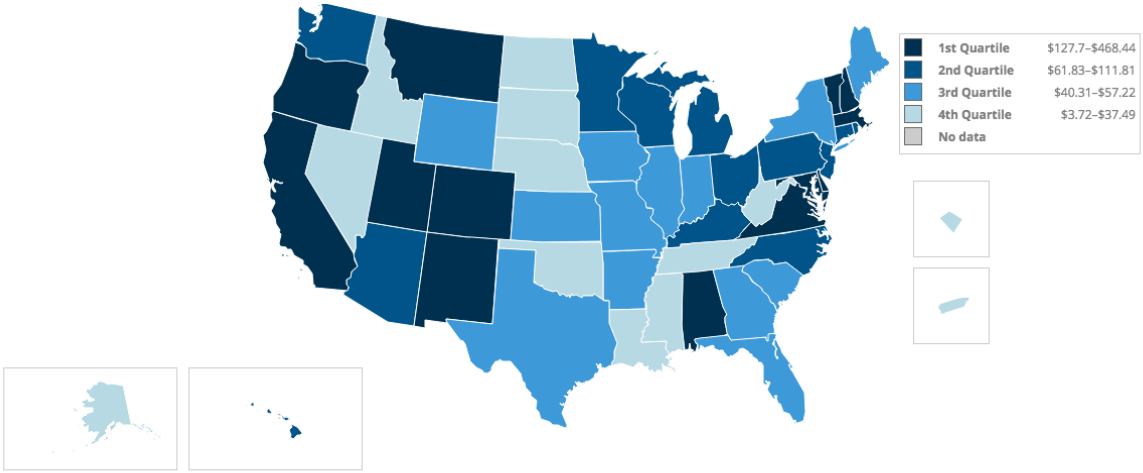
The amount of SBIR funding that states receive relative to the size of their economies varies greatly across states, with states in the highest quartile often measuring more than an order of magnitude greater than those in the lowest quartile. Total federal SBIR award funding has remained relatively flat since the late 2000s; as GDP has increased, the value of this indicator has decreased nationally and for most states.

Data sources: Small Business Administration, Office of Technology, Small Business Innovation Research program statistics; U.S. Bureau of Economic Analysis, Gross Domestic Product data; Government of Puerto Rico, Office of the Governor, Gross Domestic Product data.

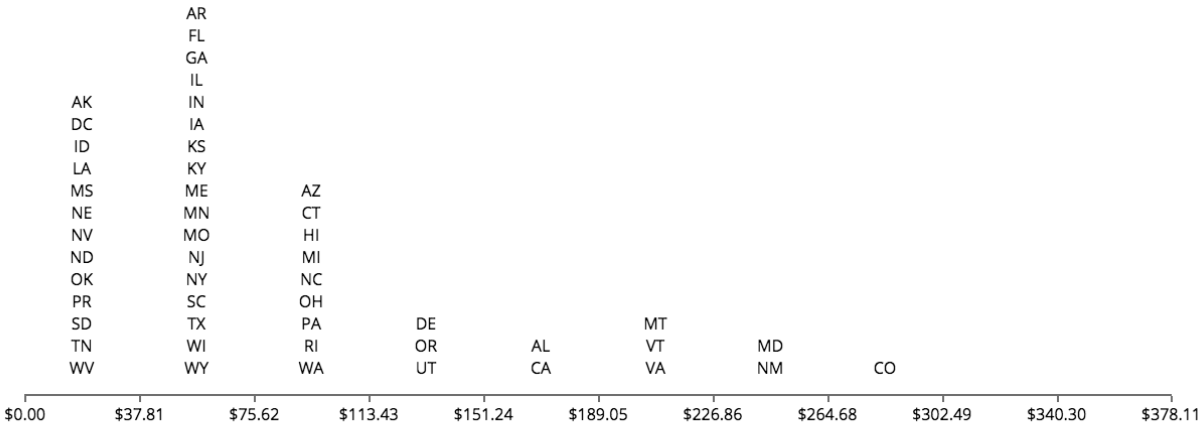
State Indicators

S-56 Average Annual Federal Small Business Innovation Research Funding per $1 Million of Gross Domestic Product

2014



Distribution of states across indicator values, 2014



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

Average Annual Federal Small Business Innovation Research Funding per $1 Million of Gross Domestic Product

(Dollars)

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
United States	79.58	88.22	111.16	120.73	110.00	116.26	155.76	162.78	137.99	146.89
Alabama	102.71	109.10	170.02	208.45	168.41	189.24	250.21	277.86	262.01	248.25
Alaska	8.01	7.06	14.41	15.79	12.62	16.91	15.31	9.23	18.44	23.54
Arizona	70.69	83.79	100.21	136.46	131.56	147.65	155.11	164.76	130.21	136.81
Arkansas	12.31	10.85	5.67	7.58	21.89	23.34	41.12	85.05	77.64	78.00
California	142.98	159.46	206.67	214.33	173.52	184.18	245.02	244.54	196.28	215.95
Colorado	167.99	223.45	273.60	306.29	332.70	327.32	420.85	441.76	395.86	408.68
Connecticut	161.52	194.36	227.42	203.84	131.72	114.43	161.31	140.09	113.07	139.30
Delaware	63.04	73.32	121.07	114.82	92.66	99.63	88.56	125.14	131.55	132.51
District of Columbia	17.55	31.78	37.42	43.26	64.25	78.38	83.39	54.80	42.05	21.84
Florida	38.42	37.90	44.44	51.79	47.03	49.73	67.06	71.20	67.57	71.73
Georgia	21.71	21.64	22.39	34.14	39.42	38.98	48.19	51.67	49.08	56.92
Hawaii	60.89	67.07	76.80	79.42	90.88	85.66	117.31	152.05	132.35	140.48
Idaho	13.25	16.35	32.69	22.23	28.97	61.84	94.08	98.62	69.21	48.11
Illinois	31.57	27.43	26.15	31.82	34.37	35.36	43.91	45.37	48.12	61.57
Indiana	14.67	14.87	25.20	28.25	25.90	28.96	49.52	67.94	63.24	74.14
Iowa	24.44	8.35	4.21	9.82	17.40	30.78	45.01	36.00	34.89	37.99
Kansas	9.64	16.86	36.99	34.68	40.71	42.60	53.57	53.74	38.89	29.76
Kentucky	4.36	9.19	16.99	24.46	20.30	27.65	32.86	30.62	36.36	63.69
Louisiana	9.73	11.43	13.12	13.86	11.47	18.80	20.58	25.87	17.53	26.09
Maine	38.68	71.85	72.83	49.34	56.15	79.83	133.77	205.13	150.70	88.35
Maryland	189.84	227.78	262.46	282.56	285.47	295.02	419.89	399.69	306.12	367.87
Massachusetts	476.81	533.80	629.23	675.11	614.53	613.20	797.91	823.75	673.04	708.96

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Michigan	40.60	45.67	61.21	83.77	63.44	59.37	94.16	124.04	126.51	145.45
Minnesota	64.73	58.78	103.70	101.40	75.01	91.52	116.19	106.02	104.51	115.71
Mississippi	8.76	8.27	13.20	13.16	24.28	37.37	44.21	41.85	13.29	22.06
Missouri	19.66	15.18	11.45	22.46	31.90	25.77	36.24	48.50	39.58	44.70
Montana	29.68	66.80	106.51	83.13	171.91	297.73	286.81	300.13	238.52	176.00
Nebraska	24.38	28.25	11.34	17.71	30.04	37.86	45.08	54.18	30.55	45.70
Nevada	65.70	35.35	21.55	34.75	25.76	53.05	83.50	64.18	31.25	34.27
New Hampshire	196.64	289.74	352.30	378.11	299.02	333.38	445.55	445.52	524.90	499.65
New Jersey	64.34	81.69	101.13	97.29	90.33	93.77	122.46	123.67	99.84	121.47
New Mexico	359.70	345.95	352.48	362.70	366.67	352.14	370.30	375.94	325.29	343.50
New York	47.22	54.11	68.93	62.37	55.07	56.24	85.63	93.29	83.14	98.94
North Carolina	38.04	40.38	46.98	57.01	53.80	56.03	73.29	93.84	92.48	114.99
North Dakota	7.98	26.01	38.39	36.61	64.42	99.64	89.47	75.14	32.15	61.58
Ohio	51.31	59.83	92.51	110.83	118.55	126.37	167.08	197.00	167.52	155.32
Oklahoma	18.47	18.14	21.32	30.91	35.55	38.69	70.54	75.43	49.50	46.93
Oregon	109.46	113.27	150.42	157.23	134.49	124.46	155.42	203.54	157.34	166.62
Pennsylvania	60.43	63.50	81.74	100.65	93.17	100.21	150.21	175.82	154.76	135.19
Rhode Island	67.75	81.73	74.45	75.85	73.21	118.00	200.49	188.36	152.49	142.10
South Carolina	0.83	1.02	8.11	13.85	20.84	44.30	61.25	55.04	28.76	49.57
South Dakota	1.23	2.05	24.36	43.35	59.02	48.25	45.47	16.03	15.04	19.19
Tennessee	54.46	50.52	64.51	59.70	47.90	53.23	49.74	57.02	58.87	55.14
Texas	36.45	40.04	54.87	60.09	57.44	58.94	92.57	101.04	73.58	64.50
Utah	196.35	214.25	161.85	162.83	145.97	156.27	180.49	164.35	134.84	121.82
Vermont	97.73	90.33	206.90	187.05	193.50	152.88	242.19	257.33	222.28	257.81
Virginia	151.68	177.60	260.93	284.74	242.52	261.41	334.79	336.22	336.35	341.37
Washington	73.53	90.55	128.98	128.73	116.50	124.98	186.58	182.19	139.51	132.74

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
West Virginia	7.91	0.53	2.47	17.14	30.69	51.25	131.06	104.43	45.32	42.31
Wisconsin	34.17	34.56	50.44	54.07	52.65	63.08	90.14	101.18	100.89	120.13
Wyoming	7.72	0.80	9.93	71.80	66.16	122.33	113.36	99.69	76.96	42.52
Puerto Rico	2.55	0.00	0.00	1.04	4.02	3.20	2.83	5.40	0.09	1.25

Note(s):
The national SBIR funding total for the United States includes U.S. territories; The national GDP total for the United States includes Puerto Rico.

Source(s):
Small Business Administration, Office of Technology, Small Business Innovation Research program statistics (various years), data as of October 2017; Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Average Annual Federal Small Business Innovation Research Funding per $1 Million of Gross Domestic Product

(Dollars)

State	2010	2012	2014
United States	139.09	120.07	102.98
Alabama	213.63	189.14	174.99
Alaska	15.31	14.73	10.40
Arizona	155.06	127.13	95.44
Arkansas	69.81	65.09	47.43
California	209.99	194.85	159.70
Colorado	355.77	265.94	267.62
Connecticut	125.23	101.26	103.22
Delaware	151.82	123.72	127.70
District of Columbia	11.23	19.00	27.10
Florida	74.42	66.93	54.01
Georgia	54.71	60.90	42.30
Hawaii	137.82	113.44	88.35
Idaho	89.79	53.14	27.26
Illinois	58.60	52.71	48.54
Indiana	62.43	61.84	48.46
Iowa	34.20	43.67	47.58
Kansas	29.45	42.39	40.31
Kentucky	57.77	72.33	61.83
Louisiana	19.52	15.26	9.77
Maine	94.29	45.41	45.33
Maryland	324.14	301.97	261.32
Massachusetts	645.76	534.79	447.07

State Indicators

State	2010	2012	2014
Michigan	132.82	94.72	97.48
Minnesota	92.11	90.53	72.49
Mississippi	19.94	1.75	7.33
Missouri	49.76	43.68	40.50
Montana	198.56	216.01	221.29
Nebraska	61.17	36.03	17.74
Nevada	44.93	44.55	30.09
New Hampshire	477.26	491.66	468.44
New Jersey	107.72	86.98	69.89
New Mexico	315.24	278.00	242.26
New York	86.07	69.05	57.22
North Carolina	118.39	107.28	91.60
North Dakota	49.72	15.39	8.63
Ohio	168.53	136.65	110.20
Oklahoma	51.19	32.45	23.35
Oregon	194.04	175.98	130.56
Pennsylvania	141.50	118.81	107.96
Rhode Island	146.34	142.48	111.81
South Carolina	47.25	43.69	51.67
South Dakota	19.82	30.23	37.49
Tennessee	56.56	41.17	34.73
Texas	62.93	54.28	46.27
Utah	104.91	163.43	128.38
Vermont	234.10	216.54	195.80
Virginia	305.97	239.16	212.44
Washington	121.81	93.86	83.26

State Indicators

State	2010	2012	2014
West Virginia	41.44	26.97	15.46
Wisconsin	116.10	91.89	64.90
Wyoming	59.70	49.76	52.31
Puerto Rico	1.20	0.49	3.72

Note(s):
The national SBIR funding total for the United States includes U.S. territories; The national GDP total for the United States includes Puerto Rico.

Source(s):
Small Business Administration, Office of Technology, Small Business Innovation Research program statistics (various years), data as of October 2017; Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Average SBIR funding

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
United States	471,155	578,173	818,566	1,024,822	1,063,955	1,235,892	1,805,769	2,129,192	1,980,652	2,159,082
Alabama	7,837	9,307	16,212	21,834	19,280	23,322	34,133	43,366	44,282	42,671
Alaska	187	164	364	403	318	480	495	369	918	1,256
Arizona	5,341	7,607	11,017	18,007	20,428	25,485	29,804	37,344	33,299	33,970
Arkansas	514	521	310	457	1,443	1,663	3,264	7,666	7,559	7,821
California	112,993	132,628	188,556	228,979	217,607	256,030	375,677	431,315	380,786	421,964
Colorado	13,587	21,412	30,852	41,495	55,103	61,391	83,625	96,688	96,676	102,909
Connecticut	16,551	21,156	27,703	28,324	20,707	19,923	30,217	29,512	26,243	32,795
Delaware	1,357	1,761	3,330	3,790	3,814	4,636	4,378	6,742	7,378	7,514
District of Columbia	727	1,432	1,766	2,212	3,675	5,069	6,140	4,569	3,893	2,181
Florida	10,360	11,575	15,482	20,819	21,897	26,348	40,169	49,503	50,997	52,728
Georgia	3,245	3,749	4,563	8,272	11,278	12,353	16,554	19,919	20,186	23,316
Hawaii	2,091	2,465	2,900	3,009	3,583	3,716	5,806	8,838	8,557	9,379
Idaho	254	377	895	665	1,001	2,365	3,864	4,666	3,726	2,646
Illinois	9,194	8,909	9,554	13,255	15,985	17,782	23,477	26,716	30,645	39,699
Indiana	1,713	1,984	3,798	4,881	5,068	6,048	11,197	16,764	16,868	20,211
Iowa	1,433	544	312	813	1,561	2,985	4,875	4,432	4,691	5,275
Kansas	523	1,007	2,444	2,589	3,374	3,808	5,135	5,687	4,718	3,776
Kentucky	316	756	1,564	2,540	2,298	3,280	4,237	4,406	5,653	10,214
Louisiana	915	1,112	1,473	1,656	1,453	2,585	3,209	4,989	3,715	5,760
Maine	915	1,822	2,038	1,515	1,948	3,098	5,694	9,537	7,420	4,471
Maryland	22,009	28,727	36,517	44,964	51,764	60,481	96,811	105,022	87,640	111,520
Massachusetts	77,509	93,712	124,325	156,946	164,596	182,099	252,535	284,381	252,358	277,391
Michigan	8,159	10,503	15,883	24,776	21,203	21,110	35,260	48,515	49,818	54,906

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Minnesota	6,977	7,066	14,144	15,920	13,349	18,012	25,218	25,626	26,938	30,562
Mississippi	361	394	722	778	1,546	2,524	3,254	3,428	1,218	2,108
Missouri	2,150	1,846	1,599	3,607	5,721	4,967	7,465	10,873	9,546	11,271
Montana	416	1,070	1,871	1,594	3,622	6,847	7,433	9,161	8,410	6,534
Nebraska	874	1,140	520	899	1,641	2,259	2,998	4,003	2,488	4,023
Nevada	2,186	1,429	1,069	2,060	1,830	4,315	7,864	7,534	4,050	4,230
New Hampshire	4,907	8,005	11,230	14,207	12,778	15,733	23,032	25,477	31,977	31,279
New Jersey	14,306	19,681	26,739	29,438	30,790	35,367	50,024	54,955	47,848	59,242
New Mexico	10,735	12,823	15,082	17,834	19,419	19,955	23,745	27,913	26,587	29,224
New York	23,769	29,086	40,394	43,116	43,406	48,750	78,627	95,141	91,617	114,328
North Carolina	5,647	6,846	9,060	12,937	14,167	16,220	23,106	33,676	36,964	47,490
North Dakota	96	349	584	600	1,110	1,900	1,960	1,861	941	2,077
Ohio	12,178	15,800	27,463	37,446	45,006	50,897	72,073	91,849	81,848	76,171
Oklahoma	1,106	1,185	1,531	2,446	3,054	3,718	7,508	9,473	7,254	7,039
Oregon	6,546	7,861	12,548	15,716	14,831	14,745	20,264	30,763	27,033	30,718
Pennsylvania	15,516	17,954	25,465	35,327	36,426	42,506	69,014	88,864	85,906	78,862
Rhode Island	1,492	1,923	1,895	2,171	2,386	4,297	8,210	8,626	7,289	6,840
South Carolina	57	78	703	1,356	2,296	5,327	8,020	7,908	4,540	8,043
South Dakota	17	33	445	854	1,267	1,184	1,291	503	526	717
Tennessee	5,572	6,081	8,819	9,255	8,342	9,971	10,233	13,012	14,347	13,749
Texas	14,444	17,832	28,078	36,423	39,685	45,318	78,134	100,637	86,113	78,547
Utah	6,568	8,343	7,626	9,264	9,621	11,446	14,521	15,694	15,210	14,092
Vermont	1,171	1,182	2,914	2,888	3,338	2,956	5,189	6,049	5,530	6,671
Virginia	23,007	29,821	48,799	61,748	60,913	73,712	104,304	119,893	131,237	139,617
Washington	9,289	12,912	20,311	24,581	26,334	30,230	48,366	53,661	47,293	47,006
West Virginia	230	17	89	661	1,273	2,258	6,186	5,564	2,694	2,732

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Wisconsin	3,622	4,175	6,863	8,351	9,124	11,944	18,542	22,870	24,346	29,729
Wyoming	100	11	147	1,087	1,060	2,262	2,418	2,778	2,870	1,688
Puerto Rico	84	0	0	52	236	219	216	453	8	120

Science and Engineering Indicators 2018

State Indicators

Average SBIR funding

State	2010	2012	2014
United States	2,160,855	2,009,224	1,852,621
Alabama	38,542	35,975	34,954
Alaska	887	879	563
Arizona	39,518	34,578	27,843
Arkansas	7,434	7,412	5,649
California	429,314	435,444	396,257
Colorado	93,555	76,674	84,061
Connecticut	29,563	24,479	26,302
Delaware	9,010	7,738	8,732
District of Columbia	1,203	2,140	3,290
Florida	55,582	53,347	47,584
Georgia	23,263	27,828	21,211
Hawaii	9,683	8,470	7,108
Idaho	5,091	3,228	1,781
Illinois	39,937	38,317	37,397
Indiana	18,183	19,284	16,150
Iowa	5,116	7,139	8,317
Kansas	3,989	6,104	6,083
Kentucky	9,915	13,115	11,844
Louisiana	4,622	3,652	2,329
Maine	4,888	2,441	2,598
Maryland	104,945	102,908	95,377
Massachusetts	269,933	238,035	216,851
Michigan	53,179	40,778	45,588

State Indicators

State	2010	2012	2014
Minnesota	25,953	27,580	23,655
Mississippi	1,955	180	777
Missouri	12,927	11,999	11,821
Montana	8,069	9,406	10,098
Nebraska	5,997	3,853	2,016
Nevada	5,565	5,736	4,224
New Hampshire	31,232	33,860	34,856
New Jersey	53,755	46,052	39,328
New Mexico	27,897	25,547	22,711
New York	107,168	92,576	82,483
North Carolina	50,604	48,913	45,558
North Dakota	2,169	857	482
Ohio	88,637	77,730	67,022
Oklahoma	8,329	6,025	4,419
Oregon	38,033	35,013	28,144
Pennsylvania	87,258	78,511	76,222
Rhode Island	7,320	7,452	6,217
South Carolina	8,014	7,970	10,380
South Dakota	816	1,341	1,758
Tennessee	14,969	11,872	10,933
Texas	84,454	83,022	74,679
Utah	12,930	21,888	19,083
Vermont	6,438	6,225	5,923
Virginia	131,687	107,579	101,626
Washington	45,425	38,155	37,224
West Virginia	2,889	1,951	1,138

State Indicators

State	2010	2012	2014
Wisconsin	30,487	25,880	19,514
Wyoming	2,404	2,040	2,077
Puerto Rico	120	50	385
Science and Engineering Indicators 2018			

State Indicators

Average state GDP

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
United States	5,920,316	6,553,664	7,363,886	8,488,872	9,672,085	10,630,676	11,593,313	13,080,020	14,353,804	14,698,296
Alabama	76,304	85,307	95,354	104,744	114,483	123,238	136,417	156,069	169,012	171,890
Alaska	23,359	23,214	25,264	25,522	25,189	28,390	32,332	39,979	49,779	53,353
Arizona	75,557	90,785	109,937	131,956	155,275	172,602	192,142	226,651	255,741	248,298
Arkansas	41,757	48,000	54,668	60,306	65,933	71,252	79,377	90,140	97,354	100,270
California	790,288	831,722	912,374	1,068,353	1,254,040	1,390,142	1,533,275	1,763,766	1,939,990	1,953,976
Colorado	80,880	95,823	112,765	135,478	165,626	187,555	198,707	218,872	244,218	251,809
Connecticut	102,468	108,851	121,813	138,951	157,208	174,104	187,319	210,666	232,090	235,434
Delaware	21,527	24,018	27,505	33,007	41,163	46,533	49,437	53,875	56,087	56,705
District of Columbia	41,435	45,066	47,191	51,132	57,196	64,669	73,627	83,374	92,571	99,873
Florida	269,644	305,414	348,343	401,988	465,603	529,866	599,004	695,238	754,769	735,058
Georgia	149,489	173,239	203,794	242,294	286,068	316,872	343,517	385,537	411,257	409,642
Hawaii	34,340	36,752	37,761	37,889	39,427	43,381	49,491	58,127	64,652	66,766
Idaho	19,163	23,062	27,377	29,918	34,553	38,241	41,070	47,314	53,839	54,998
Illinois	291,243	324,762	365,309	416,546	465,026	502,916	534,674	588,881	636,865	644,735
Indiana	116,737	133,386	150,696	172,768	195,702	208,847	226,118	246,731	266,718	272,601
Iowa	58,645	65,139	74,039	82,798	89,706	96,982	108,298	123,112	134,433	138,836
Kansas	54,252	59,720	66,067	74,656	82,877	89,384	95,854	105,829	121,323	126,879
Kentucky	72,541	82,265	92,059	103,860	113,210	118,644	128,929	143,891	155,474	160,380
Louisiana	94,037	97,292	112,267	119,476	126,683	137,521	155,923	192,855	211,914	220,752
Maine	23,655	25,358	27,984	30,703	34,693	38,809	42,566	46,492	49,237	50,603
Maryland	115,933	126,120	139,135	159,130	181,326	205,009	230,561	262,760	286,295	303,148
Massachusetts	162,556	175,557	197,583	232,474	267,839	296,966	316,495	345,229	374,955	391,265
Michigan	200,959	229,970	259,473	295,765	334,221	355,555	374,467	391,127	393,781	377,479

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Minnesota	107,792	120,211	136,390	157,000	177,973	196,812	217,050	241,710	257,748	264,134
Mississippi	41,210	47,651	54,682	59,112	63,681	67,538	73,608	81,916	91,616	95,538
Missouri	109,339	121,587	139,628	160,602	179,344	192,728	205,997	224,164	241,165	252,130
Montana	14,018	16,018	17,567	19,174	21,069	22,997	25,916	30,523	35,259	37,124
Nebraska	35,854	40,357	45,874	50,758	54,619	59,674	66,505	73,882	81,449	88,022
Nevada	33,273	40,421	49,614	59,274	71,047	81,339	94,185	117,386	129,614	123,426
New Hampshire	24,954	27,628	31,876	37,574	42,733	47,192	51,693	57,185	60,920	62,602
New Jersey	222,349	240,912	264,411	302,576	340,849	377,179	408,480	444,370	479,265	487,709
New Mexico	29,844	37,066	42,788	49,170	52,960	56,668	64,124	74,248	81,733	85,078
New York	503,411	537,510	586,044	691,327	788,219	866,839	918,187	1,019,894	1,102,012	1,155,514
North Carolina	148,454	169,544	192,857	226,925	263,325	289,505	315,273	358,876	399,691	412,983
North Dakota	12,032	13,416	15,212	16,388	17,231	19,069	21,906	24,766	29,265	33,729
Ohio	237,346	264,062	296,861	337,859	379,642	402,763	431,359	466,228	488,589	490,420
Oklahoma	59,882	65,337	71,809	79,125	85,912	96,107	106,429	125,585	146,558	149,986
Oregon	59,800	69,398	83,418	99,957	110,275	118,471	130,385	151,142	171,813	184,359
Pennsylvania	256,764	282,718	311,531	350,990	390,972	424,157	459,452	505,414	555,096	583,353
Rhode Island	22,022	23,528	25,453	28,624	32,593	36,414	40,950	45,796	47,799	48,134
South Carolina	68,335	76,689	86,688	97,928	110,185	120,240	130,930	143,679	157,832	162,270
South Dakota	13,797	16,107	18,268	19,699	21,466	24,540	28,391	31,387	34,977	37,370
Tennessee	102,318	120,374	136,706	155,033	174,146	187,319	205,713	228,216	243,690	249,357
Texas	396,306	445,389	511,743	606,163	690,950	768,860	844,016	995,995	1,170,299	1,217,767
Utah	33,451	38,941	47,118	56,893	65,913	73,247	80,454	95,492	112,804	115,675
Vermont	11,982	13,085	14,084	15,440	17,251	19,336	21,425	23,507	24,878	25,876
Virginia	151,685	167,912	187,016	216,856	251,166	281,974	311,547	356,596	390,183	408,994
Washington	126,335	142,591	157,471	190,948	226,040	241,886	259,217	294,530	338,994	354,123
West Virginia	29,085	32,294	35,988	38,565	41,479	44,057	47,200	53,281	59,442	64,567

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Wisconsin	105,994	120,811	136,064	154,461	173,286	189,337	205,712	226,034	241,322	247,472
Wyoming	12,954	13,680	14,810	15,140	16,022	18,491	21,331	27,865	37,292	39,701
Puerto Rico	32,964	37,603	43,158	49,896	58,690	68,460	76,277	83,838	90,147	96,135

Science and Engineering Indicators 2018

State Indicators

Average state GDP

State	2010	2012	2014
United States	15,535,771	16,733,985	17,989,859
Alabama	180,418	190,200	199,748
Alaska	57,928	59,655	54,121
Arizona	254,851	271,984	291,730
Arkansas	106,488	113,868	119,096
California	2,044,461	2,234,810	2,481,210
Colorado	262,964	288,314	314,110
Connecticut	236,074	241,740	254,823
Delaware	59,345	62,542	68,380
District of Columbia	107,085	112,628	121,414
Florida	746,896	797,040	881,006
Georgia	425,223	456,939	501,468
Hawaii	70,258	74,666	80,450
Idaho	56,702	60,744	65,336
Illinois	681,541	726,962	770,477
Indiana	291,275	311,857	333,232
Iowa	149,595	163,465	174,806
Kansas	135,463	144,007	150,896
Kentucky	171,618	181,310	191,563
Louisiana	236,741	239,363	238,429
Maine	51,842	53,751	57,311
Maryland	323,761	340,791	364,984
Massachusetts	418,011	445,102	485,044
Michigan	400,386	430,518	467,686

State Indicators

State	2010	2012	2014
Minnesota	281,751	304,652	326,318
Mississippi	98,043	103,053	105,945
Missouri	259,778	274,730	291,881
Montana	40,637	43,545	45,632
Nebraska	98,046	106,942	113,630
Nevada	123,866	128,766	140,399
New Hampshire	65,440	68,869	74,408
New Jersey	499,045	529,428	562,677
New Mexico	88,495	91,896	93,745
New York	1,245,157	1,340,788	1,441,565
North Carolina	427,444	455,926	497,376
North Dakota	43,620	55,695	55,881
Ohio	525,952	568,822	608,175
Oklahoma	162,695	185,693	189,238
Oregon	196,007	198,964	215,556
Pennsylvania	616,656	660,823	706,040
Rhode Island	50,021	52,303	55,603
South Carolina	169,622	182,430	200,905
South Dakota	41,162	44,362	46,894
Tennessee	264,650	288,392	314,765
Texas	1,342,008	1,529,497	1,614,039
Utah	123,254	133,931	148,650
Vermont	27,501	28,748	30,251
Virginia	430,393	449,816	478,379
Washington	372,922	406,529	447,087
West Virginia	69,723	72,351	73,587

State Indicators

State	2010	2012	2014
Wisconsin	262,586	281,626	300,671
Wyoming	40,268	41,000	39,702
Puerto Rico	100,099	102,154	103,541
Science and Engineering Indicators 2018			

State Indicators

S-57 Average Annual Federal Small Business Technology Transfer Funding per $1 Million of Gross Domestic Product

Description

Funds awarded through the federal Small Business Technology Transfer (STTR) program support technological innovation through cooperative R&D between small businesses and research institutions. This indicator represents the extent to which small business firms in a state attract federal support for cooperative R&D and technology transfer efforts.

Phase I awards support small business efforts to establish the technical merit, feasibility, and commercial potential of a proposed research effort. STTR Phase I awards normally do not exceed $150,000 total costs for 6 months. Phase II awards support businesses to further their R&D toward commercialization. Generally, only Phase I awardees are eligible for a Phase II award. STTR Phase II awards normally do not exceed $1,000,000 total costs for 2 years.

Because of year-to-year fluctuations, this indicator is calculated using 3-year moving averages. The 3-year average annual STTR award dollars won by small businesses in a state are divided by the 3-year average annual gross domestic product (GDP) for the same period. All data are expressed in current dollars.

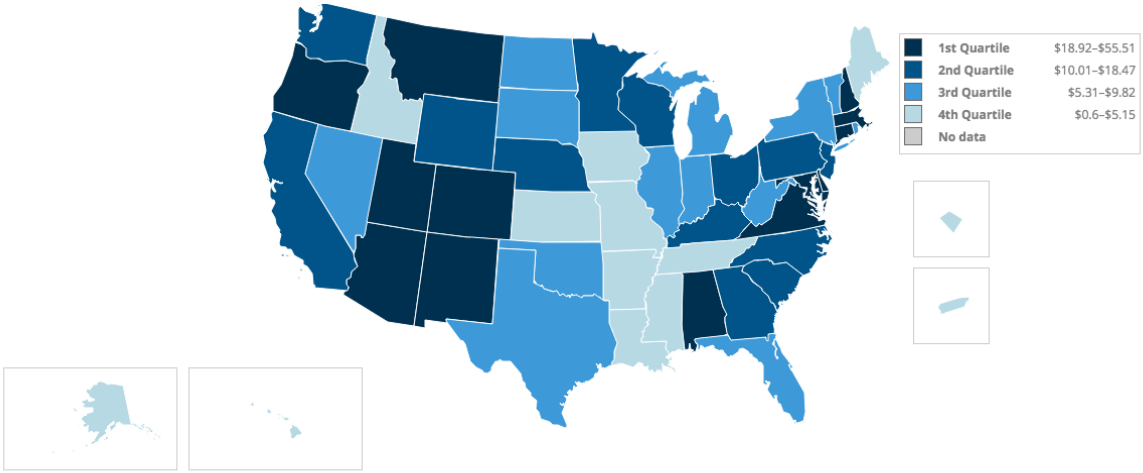
The amount of STTR funding that states receive relative to the size of their economies varies greatly across states, with states in the highest quartile often measuring more than an order of magnitude greater than those in the lowest quartile. Total federal STTR award funding has remained relatively flat since the late 2000s; as GDP has increased, the value of this indicator has decreased nationally and for most states.

Data sources: Small Business Administration, Office of Technology, Small Business Technology Transfer program; U.S. Bureau of Economic Analysis, Gross Domestic Product data; Government of Puerto Rico, Office of the Governor, Gross Domestic Product data.

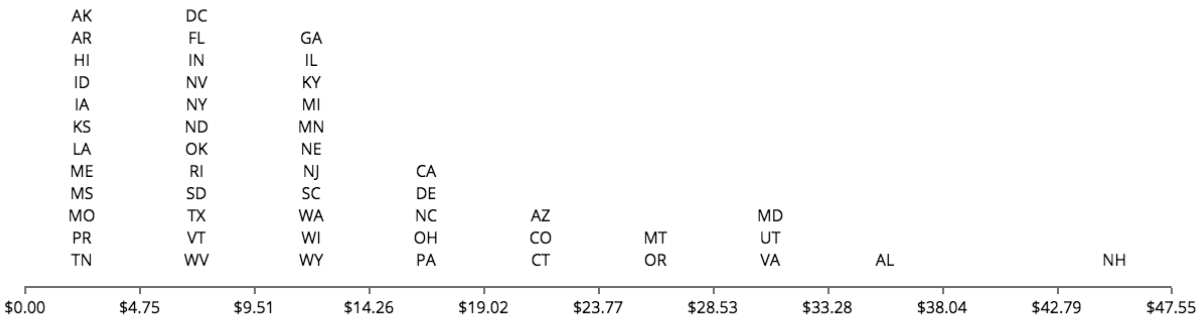
State Indicators

S-57 Average Annual Federal Small Business Technology Transfer Funding per $1 Million of Gross Domestic Product

2014



Distribution of states across indicator values, 2014



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

Average Annual Federal Small Business Technology Transfer Funding per $1 Million of Gross Domestic Product

(Dollars)

State	1994	1996	1998	2000	2002	2004	2006	2008	2010	2012
United States	0.08	0.80	4.79	6.58	11.55	17.87	16.78	17.99	16.91	14.61
Alabama	0.00	0.00	12.06	14.09	16.58	21.97	30.65	32.55	42.64	42.11
Alaska	0.00	3.88	9.25	7.04	0.00	0.00	0.00	0.00	0.00	0.00
Arizona	0.00	0.00	2.88	7.66	17.98	24.43	19.67	26.58	18.14	20.28
Arkansas	0.00	0.00	2.09	2.86	6.97	21.80	18.54	14.72	14.06	8.33
California	0.00	1.32	6.25	6.61	15.24	22.73	19.08	20.88	22.52	18.69
Colorado	0.00	1.59	10.03	11.92	22.85	44.85	43.49	43.94	39.55	26.30
Connecticut	0.00	0.48	0.64	3.94	12.13	20.43	16.61	15.68	17.51	15.79
Delaware	0.00	0.00	1.38	2.64	14.48	23.55	36.10	39.96	24.87	20.63
District of Columbia	0.00	0.00	1.35	4.50	10.70	7.64	2.08	0.33	5.46	4.84
Florida	0.00	0.58	2.20	5.41	6.82	9.00	7.04	8.76	9.82	8.37
Georgia	0.00	0.28	2.78	2.76	7.44	10.65	9.16	13.69	10.89	15.64
Hawaii	0.00	0.00	0.84	6.15	12.12	7.29	1.24	12.49	16.75	10.34
Idaho	0.00	0.00	3.10	0.86	7.72	11.77	1.97	3.64	5.47	8.17
Illinois	0.00	0.45	1.93	3.97	5.85	11.48	14.95	12.19	13.63	10.03
Indiana	0.00	0.39	2.48	2.51	6.33	12.34	11.56	18.45	9.58	7.69
Iowa	0.00	0.00	1.11	0.36	1.33	9.18	10.28	14.81	6.99	5.82
Kansas	0.00	0.44	3.78	2.83	3.89	8.95	7.06	6.36	11.38	11.19
Kentucky	0.00	0.32	1.62	4.20	6.31	9.68	16.93	18.71	24.47	16.57
Louisiana	0.00	0.28	0.26	0.24	1.64	3.51	1.88	1.44	1.74	0.31
Maine	0.00	1.07	2.88	5.15	7.82	6.09	6.09	7.25	13.50	4.84
Maryland	0.00	1.40	10.85	12.31	18.10	27.79	38.92	36.40	40.49	28.77
Massachusetts	0.00	3.98	22.13	26.96	51.54	88.20	74.99	74.81	65.41	55.95

State Indicators

State	1994	1996	1998	2000	2002	2004	2006	2008	2010	2012
Michigan	0.00	0.34	3.04	4.54	10.17	12.21	14.32	27.97	26.32	12.61
Minnesota	0.00	0.66	3.65	3.44	8.48	10.05	8.98	9.84	7.63	10.64
Mississippi	0.00	0.00	5.23	0.34	3.93	7.61	4.42	8.14	1.60	4.54
Missouri	0.00	0.14	2.51	3.77	6.56	5.46	8.03	9.33	6.29	4.98
Montana	0.00	0.00	15.57	16.00	43.91	36.76	47.42	80.03	55.20	16.83
Nebraska	0.00	0.00	0.00	1.11	1.50	4.71	6.19	11.41	6.71	8.21
Nevada	0.00	0.56	0.46	0.41	6.99	12.29	7.19	5.53	0.27	4.29
New Hampshire	0.00	0.00	1.64	9.54	17.57	25.97	37.61	52.43	41.81	43.72
New Jersey	0.00	0.76	3.07	5.79	7.86	8.57	9.80	11.92	11.36	9.98
New Mexico	0.00	1.36	8.61	20.05	24.98	35.76	23.76	22.60	27.07	42.24
New York	0.00	0.33	2.19	4.10	6.19	11.20	8.44	9.28	9.17	9.04
North Carolina	0.00	0.34	1.55	6.60	13.22	12.83	13.80	15.12	14.58	16.18
North Dakota	0.00	0.00	0.00	1.73	15.93	11.43	0.79	0.00	1.15	11.58
Ohio	0.00	1.35	8.25	8.91	10.24	18.18	22.17	16.63	13.34	14.19
Oklahoma	0.00	0.00	2.60	5.34	6.69	1.59	2.64	1.24	9.91	10.67
Oregon	0.00	1.27	6.26	6.68	10.40	21.32	17.76	25.31	28.05	24.44
Pennsylvania	1.79	0.97	4.10	6.00	10.38	20.87	22.19	20.47	13.61	11.73
Rhode Island	0.00	1.99	5.28	3.16	7.23	17.10	16.44	43.44	32.03	9.10
South Carolina	0.00	0.00	0.20	3.47	6.52	10.65	6.77	6.34	7.12	11.32
South Dakota	0.00	1.68	8.53	9.33	11.02	15.39	3.80	2.94	0.66	1.69
Tennessee	0.00	1.29	9.29	8.73	7.30	7.02	7.86	10.70	10.12	11.71
Texas	0.00	0.44	1.65	3.49	7.85	13.34	8.84	8.52	8.42	7.20
Utah	0.00	2.88	12.58	13.88	9.61	22.23	19.26	34.56	27.71	19.95
Vermont	0.00	2.14	11.94	13.50	426.09	12.04	35.53	24.08	11.35	3.65
Virginia	0.00	1.90	14.25	20.81	0.82	40.47	44.39	39.10	29.42	28.67
Washington	0.00	0.99	7.32	7.52	10.21	14.70	15.23	9.94	16.29	10.49

State Indicators

State	1994	1996	1998	2000	2002	2004	2006	2008	2010	2012
West Virginia	0.00	0.00	0.80	1.27	35.11	24.00	15.78	4.57	7.31	4.74
Wisconsin	0.00	0.21	2.93	4.44	2.49	16.21	12.56	17.41	13.31	14.92
Wyoming	0.00	2.18	18.29	26.72	24.94	31.98	26.25	25.84	14.01	12.95
Puerto Rico	0.00	0.00	0.56	2.92	0.00	0.00	0.00	1.01	0.97	0.00

Note(s):
The national STTR funding total for the United States includes U.S. territories; The national GDP total for the United States includes Puerto Rico.

Source(s):
Small Business Administration, Office of Technology, Small Business Technology Transfer program statistics (various years), data as of October 2017; Bureau of Economic Analysis, Gross Domestic Product data (various years); 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. “Average Annual Federal Small Business Technology Transfer Funding per $1 Million 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/ave-sttr-funding-per-1-million-state-gdp

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Average Annual Federal Small Business Technology Transfer Funding per $1 Million of Gross Domestic Product

(Dollars)

State	2014
United States	14.19
Alabama	35.42
Alaska	1.85
Arizona	21.00
Arkansas	1.68
California	18.47
Colorado	19.42
Connecticut	19.57
Delaware	18.92
District of Columbia	5.15
Florida	6.96
Georgia	10.92
Hawaii	3.43
Idaho	2.31
Illinois	9.82
Indiana	7.93
Iowa	3.15
Kansas	4.07
Kentucky	10.01
Louisiana	1.64
Maine	4.05
Maryland	29.11
Massachusetts	55.51

State Indicators

State	2014
Michigan	9.81
Minnesota	11.77
Mississippi	0.60
Missouri	2.57
Montana	25.68
Nebraska	12.12
Nevada	5.80
New Hampshire	47.55
New Jersey	10.14
New Mexico	55.33
New York	9.27
North Carolina	16.46
North Dakota	7.61
Ohio	16.65
Oklahoma	5.88
Oregon	27.48
Pennsylvania	15.89
Rhode Island	9.17
South Carolina	14.26
South Dakota	5.31
Tennessee	4.60
Texas	5.67
Utah	28.93
Vermont	7.14
Virginia	30.61
Washington	10.01

State Indicators

State	2014
West Virginia	5.63
Wisconsin	10.33
Wyoming	11.76
Puerto Rico	1.45

Note(s):
The national STTR funding total for the United States includes U.S. territories; The national GDP total for the United States includes Puerto Rico.

Source(s):
Small Business Administration, Office of Technology, Small Business Technology Transfer program statistics (various years), data as of October 2017; Bureau of Economic Analysis, Gross Domestic Product data (various years); 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. "Average Annual Federal Small Business Technology Transfer Funding per $1 Million 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/ave-sttr-funding-per-1-million-state-gdp

Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Average STTR funding

State	1994	1996	1998	2000	2002	2004	2006	2008	2010	2012
United States	557	6,827	46,330	69,955	133,935	233,721	240,920	264,377	262,694	244,548
Alabama	0	0	1,381	1,737	2,262	3,429	5,180	5,595	7,693	8,009
Alaska	0	99	233	200	0	0	0	0	0	0
Arizona	0	0	447	1,322	3,454	5,537	5,031	6,600	4,623	5,515
Arkansas	0	0	138	204	553	1,965	1,805	1,476	1,497	949
California	0	1,407	7,839	9,191	23,371	40,082	37,010	40,804	46,033	41,769
Colorado	0	216	1,661	2,236	4,541	9,817	10,621	11,065	10,399	7,584
Connecticut	0	67	100	686	2,273	4,304	3,856	3,691	4,134	3,818
Delaware	0	0	57	123	716	1,269	2,025	2,266	1,476	1,290
District of Columbia	0	0	77	291	788	637	193	33	585	545
Florida	0	234	1,025	2,864	4,084	6,258	5,316	6,440	7,336	6,675
Georgia	0	67	796	873	2,556	4,107	3,766	5,608	4,631	7,147
Hawaii	0	0	33	267	600	424	80	834	1,177	772
Idaho	0	0	107	33	317	557	106	200	310	496
Illinois	0	186	897	1,996	3,126	6,760	9,522	7,858	9,290	7,295
Indiana	0	67	485	524	1,431	3,044	3,084	5,030	2,789	2,397
Iowa	0	0	100	35	144	1,130	1,382	2,056	1,045	952
Kansas	0	33	313	253	373	947	857	807	1,542	1,611
Kentucky	0	33	183	498	813	1,393	2,632	3,001	4,200	3,004
Louisiana	0	33	33	33	256	677	398	318	412	75
Maine	0	33	100	200	333	283	300	367	700	260
Maryland	0	222	1,967	2,524	4,174	7,303	11,144	11,035	13,110	9,805
Massachusetts	0	926	5,927	8,005	16,311	30,449	28,119	29,271	27,343	24,902
Michigan	0	100	1,016	1,614	3,808	4,775	5,638	10,558	10,539	5,428

State Indicators

State	1994	1996	1998	2000	2002	2004	2006	2008	2010	2012
Minnesota	0	104	649	677	1,840	2,429	2,315	2,599	2,150	3,243
Mississippi	0	0	333	23	289	623	405	778	157	468
Missouri	0	22	451	726	1,352	1,223	1,936	2,352	1,635	1,369
Montana	0	0	328	368	1,138	1,122	1,672	2,971	2,243	733
Nebraska	0	0	0	66	100	348	504	1,004	658	878
Nevada	0	33	33	33	658	1,443	932	683	33	553
New Hampshire	0	0	70	450	908	1,485	2,291	3,282	2,736	3,011
New Jersey	0	229	1,048	2,184	3,211	3,808	4,695	5,813	5,669	5,286
New Mexico	0	67	456	1,136	1,602	2,655	1,942	1,923	2,396	3,882
New York	0	231	1,723	3,558	5,685	11,418	9,301	10,727	11,414	12,120
North Carolina	0	78	409	1,910	4,167	4,605	5,514	6,244	6,232	7,375
North Dakota	0	0	0	33	349	283	23	0	50	645
Ohio	0	456	3,131	3,589	4,419	8,477	10,830	8,156	7,015	8,069
Oklahoma	0	0	223	513	712	200	387	186	1,612	1,981
Oregon	0	127	690	791	1,356	3,223	3,052	4,666	5,498	4,863
Pennsylvania	557	341	1,604	2,547	4,767	10,549	12,319	11,941	8,390	7,750
Rhode Island	0	57	172	115	296	783	786	2,091	1,602	476
South Carolina	0	0	22	417	854	1,530	1,068	1,029	1,208	2,065
South Dakota	0	33	183	229	313	483	133	110	27	75
Tennessee	0	200	1,618	1,636	1,502	1,603	1,915	2,668	2,677	3,376
Texas	0	264	1,139	2,686	6,629	13,283	10,345	10,381	11,298	11,019
Utah	0	164	829	1,017	773	2,123	2,173	3,998	3,415	2,672
Vermont	0	33	206	261	9,129	283	884	623	312	105
Virginia	0	411	3,578	5,867	254	14,433	17,321	15,993	12,662	12,897
Washington	0	189	1,654	1,819	2,646	4,331	5,164	3,521	6,075	4,265
West Virginia	0	0	33	56	1,657	1,279	938	295	510	343

State Indicators

State	1994	1996	1998	2000	2002	2004	2006	2008	2010	2012
Wisconsin	0	33	507	841	513	3,663	3,032	4,309	3,494	4,202
Wyoming	0	33	293	494	532	891	979	1,026	564	531
Puerto Rico	0	0	33	200	0	0	0	97	97	0

Science and Engineering Indicators 2018

State Indicators

Average STTR funding

State	2014
United States	255,215
Alabama	7,075
Alaska	100
Arizona	6,125
Arkansas	200
California	45,838
Colorado	6,100
Connecticut	4,988
Delaware	1,294
District of Columbia	625
Florida	6,135
Georgia	5,474
Hawaii	276
Idaho	151
Illinois	7,563
Indiana	2,643
Iowa	551
Kansas	614
Kentucky	1,917
Louisiana	390
Maine	232
Maryland	10,623
Massachusetts	26,926
Michigan	4,586

State Indicators

State	2014
Minnesota	3,841
Mississippi	64
Missouri	749
Montana	1,172
Nebraska	1,377
Nevada	814
New Hampshire	3,538
New Jersey	5,705
New Mexico	5,187
New York	13,358
North Carolina	8,186
North Dakota	425
Ohio	10,129
Oklahoma	1,112
Oregon	5,924
Pennsylvania	11,221
Rhode Island	510
South Carolina	2,864
South Dakota	249
Tennessee	1,449
Texas	9,144
Utah	4,301
Vermont	216
Virginia	14,642
Washington	4,476
West Virginia	414

State Indicators

State	2014
Wisconsin	3,107
Wyoming	467
Puerto Rico	150
Science and Engineering Indicators 2018	

State Indicators

Average state GDP

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
United States	5,920,316	6,553,664	7,363,886	8,488,872	9,672,085	10,630,676	11,593,313	13,080,020	14,353,804	14,698,296
Alabama	76,304	85,307	95,354	104,744	114,483	123,238	136,417	156,069	169,012	171,890
Alaska	23,359	23,214	25,264	25,522	25,189	28,390	32,332	39,979	49,779	53,353
Arizona	75,557	90,785	109,937	131,956	155,275	172,602	192,142	226,651	255,741	248,298
Arkansas	41,757	48,000	54,668	60,306	65,933	71,252	79,377	90,140	97,354	100,270
California	790,288	831,722	912,374	1,068,353	1,254,040	1,390,142	1,533,275	1,763,766	1,939,990	1,953,976
Colorado	80,880	95,823	112,765	135,478	165,626	187,555	198,707	218,872	244,218	251,809
Connecticut	102,468	108,851	121,813	138,951	157,208	174,104	187,319	210,666	232,090	235,434
Delaware	21,527	24,018	27,505	33,007	41,163	46,533	49,437	53,875	56,087	56,705
District of Columbia	41,435	45,066	47,191	51,132	57,196	64,669	73,627	83,374	92,571	99,873
Florida	269,644	305,414	348,343	401,988	465,603	529,866	599,004	695,238	754,769	735,058
Georgia	149,489	173,239	203,794	242,294	286,068	316,872	343,517	385,537	411,257	409,642
Hawaii	34,340	36,752	37,761	37,889	39,427	43,381	49,491	58,127	64,652	66,766
Idaho	19,163	23,062	27,377	29,918	34,553	38,241	41,070	47,314	53,839	54,998
Illinois	291,243	324,762	365,309	416,546	465,026	502,916	534,674	588,881	636,865	644,735
Indiana	116,737	133,386	150,696	172,768	195,702	208,847	226,118	246,731	266,718	272,601
Iowa	58,645	65,139	74,039	82,798	89,706	96,982	108,298	123,112	134,433	138,836
Kansas	54,252	59,720	66,067	74,656	82,877	89,384	95,854	105,829	121,323	126,879
Kentucky	72,541	82,265	92,059	103,860	113,210	118,644	128,929	143,891	155,474	160,380
Louisiana	94,037	97,292	112,267	119,476	126,683	137,521	155,923	192,855	211,914	220,752
Maine	23,655	25,358	27,984	30,703	34,693	38,809	42,566	46,492	49,237	50,603
Maryland	115,933	126,120	139,135	159,130	181,326	205,009	230,561	262,760	286,295	303,148
Massachusetts	162,556	175,557	197,583	232,474	267,839	296,966	316,495	345,229	374,955	391,265
Michigan	200,959	229,970	259,473	295,765	334,221	355,555	374,467	391,127	393,781	377,479

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Minnesota	107,792	120,211	136,390	157,000	177,973	196,812	217,050	241,710	257,748	264,134
Mississippi	41,210	47,651	54,682	59,112	63,681	67,538	73,608	81,916	91,616	95,538
Missouri	109,339	121,587	139,628	160,602	179,344	192,728	205,997	224,164	241,165	252,130
Montana	14,018	16,018	17,567	19,174	21,069	22,997	25,916	30,523	35,259	37,124
Nebraska	35,854	40,357	45,874	50,758	54,619	59,674	66,505	73,882	81,449	88,022
Nevada	33,273	40,421	49,614	59,274	71,047	81,339	94,185	117,386	129,614	123,426
New Hampshire	24,954	27,628	31,876	37,574	42,733	47,192	51,693	57,185	60,920	62,602
New Jersey	222,349	240,912	264,411	302,576	340,849	377,179	408,480	444,370	479,265	487,709
New Mexico	29,844	37,066	42,788	49,170	52,960	56,668	64,124	74,248	81,733	85,078
New York	503,411	537,510	586,044	691,327	788,219	866,839	918,187	1,019,894	1,102,012	1,155,514
North Carolina	148,454	169,544	192,857	226,925	263,325	289,505	315,273	358,876	399,691	412,983
North Dakota	12,032	13,416	15,212	16,388	17,231	19,069	21,906	24,766	29,265	33,729
Ohio	237,346	264,062	296,861	337,859	379,642	402,763	431,359	466,228	488,589	490,420
Oklahoma	59,882	65,337	71,809	79,125	85,912	96,107	106,429	125,585	146,558	149,986
Oregon	59,800	69,398	83,418	99,957	110,275	118,471	130,385	151,142	171,813	184,359
Pennsylvania	256,764	282,718	311,531	350,990	390,972	424,157	459,452	505,414	555,096	583,353
Rhode Island	22,022	23,528	25,453	28,624	32,593	36,414	40,950	45,796	47,799	48,134
South Carolina	68,335	76,689	86,688	97,928	110,185	120,240	130,930	143,679	157,832	162,270
South Dakota	13,797	16,107	18,268	19,699	21,466	24,540	28,391	31,387	34,977	37,370
Tennessee	102,318	120,374	136,706	155,033	174,146	187,319	205,713	228,216	243,690	249,357
Texas	396,306	445,389	511,743	606,163	690,950	768,860	844,016	995,995	1,170,299	1,217,767
Utah	33,451	38,941	47,118	56,893	65,913	73,247	80,454	95,492	112,804	115,675
Vermont	11,982	13,085	14,084	15,440	17,251	19,336	21,425	23,507	24,878	25,876
Virginia	151,685	167,912	187,016	216,856	251,166	281,974	311,547	356,596	390,183	408,994
Washington	126,335	142,591	157,471	190,948	226,040	241,886	259,217	294,530	338,994	354,123
West Virginia	29,085	32,294	35,988	38,565	41,479	44,057	47,200	53,281	59,442	64,567

State Indicators

State	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008
Wisconsin	105,994	120,811	136,064	154,461	173,286	189,337	205,712	226,034	241,322	247,472
Wyoming	12,954	13,680	14,810	15,140	16,022	18,491	21,331	27,865	37,292	39,701
Puerto Rico	32,964	37,603	43,158	49,896	58,690	68,460	76,277	83,838	90,147	96,135

Science and Engineering Indicators 2018

State Indicators

Average state GDP

State	2010	2012	2014
United States	15,535,771	16,733,985	17,989,859
Alabama	180,418	190,200	199,748
Alaska	57,928	59,655	54,121
Arizona	254,851	271,984	291,730
Arkansas	106,488	113,868	119,096
California	2,044,461	2,234,810	2,481,210
Colorado	262,964	288,314	314,110
Connecticut	236,074	241,740	254,823
Delaware	59,345	62,542	68,380
District of Columbia	107,085	112,628	121,414
Florida	746,896	797,040	881,006
Georgia	425,223	456,939	501,468
Hawaii	70,258	74,666	80,450
Idaho	56,702	60,744	65,336
Illinois	681,541	726,962	770,477
Indiana	291,275	311,857	333,232
Iowa	149,595	163,465	174,806
Kansas	135,463	144,007	150,896
Kentucky	171,618	181,310	191,563
Louisiana	236,741	239,363	238,429
Maine	51,842	53,751	57,311
Maryland	323,761	340,791	364,984
Massachusetts	418,011	445,102	485,044
Michigan	400,386	430,518	467,686

State Indicators

State	2010	2012	2014
Minnesota	281,751	304,652	326,318
Mississippi	98,043	103,053	105,945
Missouri	259,778	274,730	291,881
Montana	40,637	43,545	45,632
Nebraska	98,046	106,942	113,630
Nevada	123,866	128,766	140,399
New Hampshire	65,440	68,869	74,408
New Jersey	499,045	529,428	562,677
New Mexico	88,495	91,896	93,745
New York	1,245,157	1,340,788	1,441,565
North Carolina	427,444	455,926	497,376
North Dakota	43,620	55,695	55,881
Ohio	525,952	568,822	608,175
Oklahoma	162,695	185,693	189,238
Oregon	196,007	198,964	215,556
Pennsylvania	616,656	660,823	706,040
Rhode Island	50,021	52,303	55,603
South Carolina	169,622	182,430	200,905
South Dakota	41,162	44,362	46,894
Tennessee	264,650	288,392	314,765
Texas	1,342,008	1,529,497	1,614,039
Utah	123,254	133,931	148,650
Vermont	27,501	28,748	30,251
Virginia	430,393	449,816	478,379
Washington	372,922	406,529	447,087
West Virginia	69,723	72,351	73,587

State Indicators

State	2010	2012	2014
Wisconsin	262,586	281,626	300,671
Wyoming	40,268	41,000	39,702
Puerto Rico	100,099	102,154	103,541
Science and Engineering Indicators 2018			

State Indicators

S-58 Venture Capital Disbursed per $1 Million of Gross Domestic Product

Description

Venture capital represents an important source of funding for start-up companies and firms seeking to commercialize emerging technology. It supports the growth and expansion of these companies early in their development, before they would otherwise qualify for other types of financing.

This indicator represents the relative magnitude of venture capital investments in a state after adjusting for the size of the state's economy. The indicator is expressed as dollars of venture capital disbursed per $1,000,000 of gross domestic product. High values indicate that companies in those states are successfully attracting venture capital to fuel their growth. Access to venture capital financing varies greatly across the nation, and venture capital investment is concentrated in relatively few states, with California and Massachusetts accounting for more than 50% of the total in recent years. Some states have relatively little venture capital investment taking place in a given year; thus, the value of this indicator may show large fluctuations on a year-to-year basis.

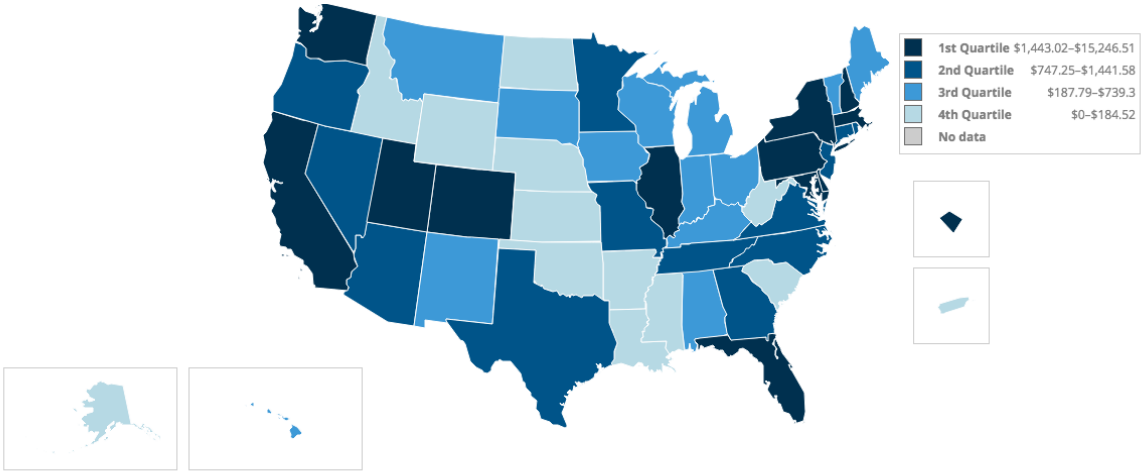
Venture capital data include financing at seed, early, and later stages of venture investment. Seed financing supports proof-of-concept development and initial product development and marketing. Early stage financing supports product development and marketing, the initiation of commercial manufacturing, and sales; it also supports company expansion and provides financing to prepare for an initial public offering. Later-stage financing includes acquisition financing and management and leveraged buyouts.

Data sources: PitchBook, Venture capital and private equity database; U.S. Bureau of Economic Analysis, Gross Domestic Product data; Government of Puerto Rico, Office of the Governor, Gross Domestic Product data.

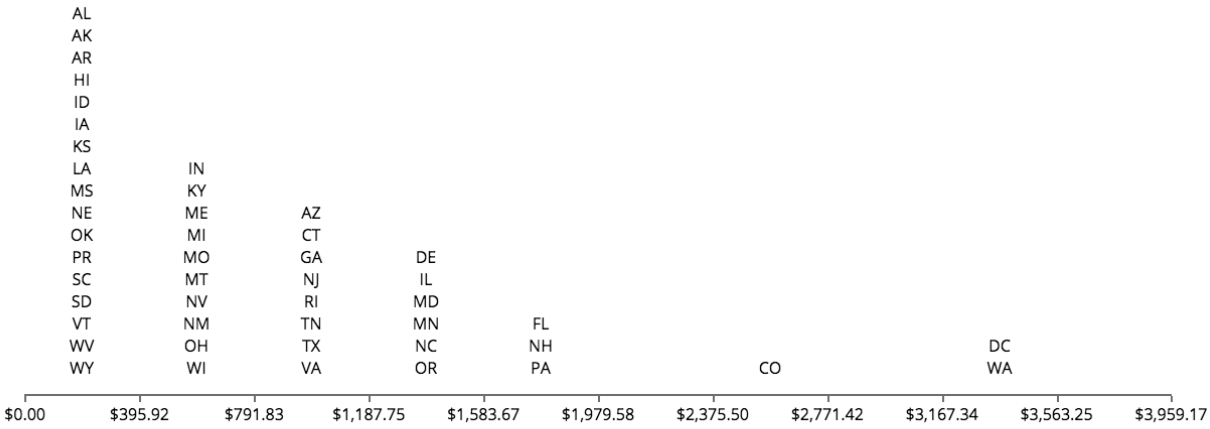
State Indicators

S-58 Venture Capital Disbursed per $1 Million of Gross Domestic Product

2016



Distribution of states across indicator values, 2016



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

State Indicators

Venture Capital Disbursed per $1 Million of Gross Domestic Product

(Dollars)

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	158.89	349.77	525.23	762.61	2,323.38	4,942.66	2,247.31	1,764.14	1,572.64	1,767.41
Alabama	25.67	369.46	0.00	0.00	21.91	283.15	310.77	242.74	670.60	632.36
Alaska	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arizona	183.88	38.32	275.49	452.74	212.30	1,079.91	432.76	345.54	312.32	571.87
Arkansas	0.00	0.00	0.00	12.85	179.87	0.00	33.87	53.98	14.22	17.83
California	613.66	1,280.60	2,109.36	2,603.15	7,986.53	15,816.37	7,669.61	6,396.92	5,474.48	5,905.11
Colorado	186.68	904.77	1,360.36	1,071.97	6,649.44	10,052.18	2,456.46	2,777.93	2,226.08	2,237.39
Connecticut	25.89	192.70	367.07	1,522.40	1,856.53	4,482.14	1,164.58	1,351.11	1,029.95	726.57
Delaware	0.00	1.71	0.00	0.00	302.36	691.18	157.03	339.90	576.11	599.51
District of Columbia	0.00	14.85	0.00	57.62	268.15	5,331.76	1,787.70	1,181.00	1,552.21	580.09
Florida	104.34	177.24	458.72	607.70	1,522.87	2,414.98	508.49	472.38	383.64	538.37
Georgia	144.54	300.83	173.20	677.29	1,624.40	3,284.43	1,414.18	1,641.06	730.36	1,308.57
Hawaii	0.00	0.00	0.00	0.00	22.95	0.00	69.62	305.61	26.25	444.24
Idaho	0.00	0.00	0.00	385.33	0.00	52.33	59.29	274.31	75.18	15.59
Illinois	20.61	5.22	44.21	157.56	480.32	1,721.73	818.29	667.85	391.62	299.18
Indiana	46.54	110.07	0.00	0.00	6.77	270.09	85.69	328.07	118.96	286.76
Iowa	0.00	0.00	1.79	0.00	29.31	63.82	31.27	51.09	14.06	9.32
Kansas	0.00	14.36	0.00	0.00	113.74	746.18	17.80	24.47	33.93	367.89
Kentucky	0.00	0.00	20.60	291.92	501.05	968.65	70.24	28.45	30.14	192.61
Louisiana	0.00	101.09	351.75	0.00	0.00	79.58	70.26	1.99	9.49	49.77
Maine	0.00	0.00	6.51	0.00	0.00	2,228.10	3.86	372.41	136.20	34.53
Maryland	261.02	167.01	281.02	676.40	1,929.32	5,992.78	2,096.82	1,834.85	1,652.56	1,415.26
Massachusetts	840.19	1,734.56	2,493.19	3,937.33	8,458.94	19,296.45	9,271.73	7,767.16	7,619.47	9,999.21

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Michigan	0.00	52.23	21.47	78.33	99.66	270.92	134.41	247.35	268.45	250.06
Minnesota	575.69	180.29	254.43	390.76	1,025.33	3,054.90	1,579.29	1,306.84	1,079.33	1,334.34
Mississippi	0.00	0.00	0.00	0.00	0.00	136.49	341.02	12.28	40.64	12.21
Missouri	0.00	26.98	30.88	374.36	3,162.85	1,150.71	355.62	241.15	345.92	233.90
Montana	0.00	0.00	0.00	0.00	0.00	991.66	0.00	0.00	3.88	99.58
Nebraska	0.00	0.00	0.00	0.00	488.72	1,268.45	644.99	0.00	69.77	0.00
Nevada	0.00	0.00	0.00	0.00	89.60	144.14	0.00	124.58	38.11	412.52
New Hampshire	53.33	0.00	462.24	586.44	1,047.42	5,788.57	2,358.04	3,003.61	2,165.51	1,526.13
New Jersey	33.97	332.00	174.66	533.37	2,750.25	3,267.70	2,721.29	1,421.73	2,000.29	1,719.06
New Mexico	0.00	0.00	0.00	1,186.57	0.00	1,212.56	106.42	2,334.17	1,579.15	336.85
New York	29.76	86.11	119.49	548.56	1,679.45	3,456.52	1,106.60	622.68	598.09	628.49
North Carolina	62.03	225.84	205.71	583.82	1,993.27	3,431.65	1,151.64	1,335.62	1,080.81	1,076.31
North Dakota	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	400.11	1,680.85
Ohio	45.81	23.79	195.10	148.14	249.33	652.52	345.29	295.09	259.11	251.11
Oklahoma	0.00	0.00	0.00	53.87	0.00	0.00	1.54	277.50	67.99	134.29
Oregon	155.36	186.48	298.34	161.48	843.87	4,645.24	2,466.37	1,123.07	932.91	1,367.19
Pennsylvania	132.40	297.85	400.20	251.13	1,377.82	3,482.61	2,410.00	866.81	1,088.84	1,347.18
Rhode Island	0.00	0.00	29.17	0.00	33.97	1,213.99	420.88	1,265.22	1,327.11	1,558.12
South Carolina	0.00	0.00	0.00	0.00	39.29	1,245.59	742.45	68.69	596.49	48.03
South Dakota	0.00	0.00	0.00	0.00	1,745.78	437.16	0.00	44.79	10.67	0.00
Tennessee	0.00	429.30	85.83	39.09	247.00	225.26	45.78	262.52	376.26	539.92
Texas	58.18	253.81	455.75	459.81	1,531.54	4,991.48	2,350.17	1,520.84	1,381.24	1,327.88
Utah	0.00	96.12	61.30	594.65	1,797.54	3,722.71	2,549.55	1,252.25	880.79	2,826.70
Vermont	0.00	0.00	0.00	0.00	0.00	217.50	826.10	14.81	0.47	328.72
Virginia	197.06	348.00	434.16	526.98	1,924.23	6,741.49	2,194.70	925.90	1,121.16	797.47
Washington	175.28	756.76	725.53	996.49	3,533.23	4,980.98	3,565.29	2,553.65	1,734.37	3,671.62

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
West Virginia	0.00	0.00	0.00	0.00	35.84	20.61	17.02	11.01	25.28	62.60
Wisconsin	0.00	15.41	25.30	100.59	177.34	1,133.56	278.50	178.49	173.61	332.28
Wyoming	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.84	0.00
Puerto Rico	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note(s):
The national total for venture capital for the United States includes U.S. territories; The national GDP total for the United States includes Puerto Rico.

Source(s):
PItchBook, Venture capital and private equity database, data as of October 2017; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Science and Engineering Indicators 2018

State Indicators

Venture Capital Disbursed per $1 Million of Gross Domestic Product

(Dollars)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	1,784.79	2,090.08	2,433.01	2,474.86	1,887.32	2,083.94	2,840.42	2,503.89	2,702.54	3,914.11
Alabama	39.43	173.10	236.22	136.52	121.91	207.54	101.68	290.57	253.68	946.59
Alaska	0.00	0.00	0.00	0.00	74.11	0.00	80.16	20.20	12.71	1,582.03
Arizona	360.53	1,197.46	1,039.78	1,235.71	666.57	519.93	1,020.02	1,681.99	1,420.27	1,357.99
Arkansas	11.51	192.96	261.64	11.02	33.26	107.62	62.36	97.69	906.64	429.61
California	6,306.23	7,357.42	8,205.29	8,558.45	7,014.46	7,371.97	10,883.24	9,305.80	9,434.68	15,773.35
Colorado	3,119.79	3,203.04	2,797.53	5,584.77	2,924.21	2,728.30	2,846.88	2,935.53	2,210.16	3,959.17
Connecticut	1,012.42	1,141.36	2,685.30	1,302.96	917.10	1,362.65	824.78	1,439.14	1,568.25	3,118.95
Delaware	2,844.86	1,168.01	863.99	820.18	563.03	246.56	386.24	1,166.95	860.27	772.22
District of Columbia	1,093.48	855.70	652.05	542.87	698.78	2,773.64	6,170.15	761.45	4,762.80	2,727.22
Florida	470.39	587.37	846.12	590.67	474.91	473.92	710.64	1,052.55	1,248.18	1,489.20
Georgia	1,017.17	927.35	1,182.31	957.35	841.50	1,117.25	1,017.57	1,106.78	1,489.31	1,397.67
Hawaii	511.67	611.24	334.00	767.26	286.01	918.14	521.30	222.66	430.66	310.80
Idaho	161.10	142.89	408.94	470.34	299.73	76.37	380.66	173.31	230.39	200.25
Illinois	446.15	736.83	710.55	1,681.89	454.55	1,611.31	3,122.59	1,131.56	966.80	1,837.22
Indiana	83.36	182.23	653.52	470.98	1,317.90	513.00	639.09	400.14	203.95	763.41
Iowa	4.70	399.34	254.87	208.73	129.57	269.31	378.45	357.04	252.98	413.62
Kansas	94.29	13.85	212.66	891.20	19.12	437.13	718.35	288.16	457.65	426.53
Kentucky	1,456.06	584.69	859.94	71.58	733.88	562.20	98.00	334.83	63.82	340.19
Louisiana	22.59	20.05	105.08	115.60	48.89	126.74	50.07	76.68	336.82	46.67
Maine	637.68	332.02	545.18	229.43	661.24	516.56	2,482.42	546.41	1,147.75	1,750.93
Maryland	2,142.46	2,264.82	1,816.82	1,695.83	1,170.87	1,514.15	2,891.82	1,074.56	1,551.57	1,548.30
Massachusetts	7,416.09	8,732.57	11,268.29	9,921.31	8,334.91	9,088.22	10,078.77	10,427.65	10,614.85	11,419.70

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Michigan	410.69	274.98	308.28	543.08	802.05	786.35	682.99	960.93	600.31	718.52
Minnesota	870.12	1,208.99	1,704.79	1,839.92	1,462.86	1,054.91	1,372.00	1,238.19	1,484.46	1,369.33
Mississippi	190.01	272.33	494.08	298.56	57.54	820.48	22.89	107.45	7.92	16.21
Missouri	280.02	638.50	555.21	1,137.52	397.43	394.90	1,168.24	306.33	603.06	962.44
Montana	37.54	0.00	95.97	795.03	141.91	39.09	140.09	237.79	82.81	814.06
Nebraska	219.86	356.43	37.11	43.24	11.04	101.38	69.85	242.91	222.64	245.61
Nevada	580.46	289.61	57.96	94.81	237.60	233.83	231.99	246.41	403.57	677.78
New Hampshire	1,451.24	1,140.17	2,667.59	4,086.94	2,194.84	1,517.48	1,558.56	2,959.76	1,566.99	2,271.45
New Jersey	1,285.48	1,680.50	2,180.71	2,145.61	1,246.10	1,262.75	1,458.66	1,340.36	881.35	1,267.59
New Mexico	1,116.89	333.91	1,466.20	712.95	49.98	303.44	1,004.92	426.64	577.76	417.50
New York	1,039.81	1,153.65	1,457.96	1,965.38	1,051.17	1,820.36	2,690.53	2,049.33	3,291.42	4,789.16
North Carolina	1,189.24	1,029.32	1,359.88	1,497.90	885.85	1,246.59	891.62	1,041.82	1,194.83	973.86
North Dakota	253.43	1.89	88.28	506.85	4.62	155.79	26.80	45.72	18.19	78.99
Ohio	247.20	313.31	675.11	358.66	353.06	356.12	463.33	995.53	707.88	988.61
Oklahoma	91.82	366.83	132.40	391.05	134.57	64.04	301.95	283.30	84.08	242.98
Oregon	772.77	607.10	1,030.30	1,172.03	925.14	1,023.75	2,059.73	1,136.40	6,054.10	1,473.40
Pennsylvania	1,125.00	1,268.45	1,928.91	1,253.87	1,249.90	1,307.42	1,296.06	1,332.05	916.96	1,955.25
Rhode Island	1,570.20	1,779.59	420.03	465.96	467.84	1,459.14	812.41	2,553.48	2,296.17	1,231.46
South Carolina	86.57	77.77	751.82	143.53	126.90	444.41	107.70	259.21	349.97	428.26
South Dakota	0.00	0.00	224.66	0.00	59.97	0.00	0.00	279.17	267.73	252.25
Tennessee	551.77	251.66	774.24	471.19	488.28	327.87	795.63	873.96	1,094.02	1,685.74
Texas	1,166.24	1,391.81	1,423.42	1,262.68	1,185.82	1,206.41	1,355.30	1,138.07	1,463.16	1,475.09
Utah	1,534.27	2,235.59	2,198.53	3,652.78	1,758.22	1,784.58	3,062.86	2,427.00	3,185.24	7,366.19
Vermont	0.00	143.51	701.46	2,607.30	27.42	1,955.47	2,813.99	618.19	1,292.09	1,645.78
Virginia	1,283.59	1,233.71	1,490.14	2,064.76	817.21	1,109.44	1,426.32	1,059.13	1,322.14	1,283.27
Washington	3,184.04	5,560.18	4,953.83	3,008.72	3,289.02	2,000.56	2,049.23	4,537.77	3,148.48	4,307.17

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West Virginia	35.36	75.61	104.97	27.96	26.62	55.76	38.20	217.56	79.77	3.24
Wisconsin	379.76	283.60	352.91	354.45	196.41	515.43	569.07	542.18	494.02	826.19
Wyoming	3.64	46.83	103.22	52.48	0.00	2.56	33.74	3.73	1,142.36	202.72
Puerto Rico	0.00	123.97	0.00	126.23	0.00	5.49	0.00	113.82	0.00	1.76

Note(s):
The national total for venture capital for the United States includes U.S. territories; The national GDP total for the United States includes Puerto Rico.

Source(s):
PItchBook, Venture capital and private equity database, data as of October 2017; U.S. Bureau of Economic Analysis, Gross Domestic Product data (various years); Government of Puerto Rico, Office of the Governor, Gross Domestic Product data (various years), data as of May 2017.

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Science and Engineering Indicators 2018

State Indicators

Venture Capital Disbursed per $1 Million of Gross Domestic Product

(Dollars)

State	2015	2016
United States	4,293.12	3,786.47
Alabama	257.58	209.51
Alaska	0.00	2.76
Arizona	667.22	852.05
Arkansas	279.25	184.52
California	16,948.51	15,246.51
Colorado	3,610.14	2,589.07
Connecticut	1,667.81	845.66
Delaware	1,814.30	1,443.02
District of Columbia	2,459.73	3,443.44
Florida	937.52	1,656.09
Georgia	2,026.69	862.13
Hawaii	164.15	284.45
Idaho	887.72	48.01
Illinois	1,655.45	1,566.57
Indiana	479.21	429.21
Iowa	121.95	240.26
Kansas	584.81	125.41
Kentucky	138.15	408.79
Louisiana	2,208.17	60.06
Maine	1,605.04	430.87
Maryland	2,370.95	1,468.67
Massachusetts	16,519.46	12,339.22

State Indicators

State	2015	2016
Michigan	923.33	570.79
Minnesota	1,595.74	1,285.44
Mississippi	3.31	0.93
Missouri	907.97	762.37
Montana	456.32	452.89
Nebraska	982.83	157.70
Nevada	354.36	747.25
New Hampshire	2,313.48	1,776.25
New Jersey	1,949.22	976.78
New Mexico	1,279.09	529.28
New York	5,701.85	5,713.86
North Carolina	2,428.90	1,441.58
North Dakota	14.30	0.00
Ohio	606.54	564.91
Oklahoma	175.47	100.03
Oregon	1,056.06	1,197.73
Pennsylvania	1,241.06	1,711.25
Rhode Island	1,905.84	1,002.04
South Carolina	284.10	182.91
South Dakota	376.86	187.79
Tennessee	1,012.89	988.38
Texas	1,370.42	1,034.88
Utah	4,250.20	4,991.88
Vermont	1,283.83	342.21
Virginia	951.24	1,112.74
Washington	4,589.12	3,427.07

State Indicators

State	2015	2016
West Virginia	34.61	95.40
Wisconsin	673.01	739.30
Wyoming	201.70	29.32
Puerto Rico	21.33	37.32

Note(s):
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Source(s):
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Science and Engineering Indicators 2018

State Indicators

Venture capital disbursed

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	1,166.67	2,726.75	4,512.47	6,923.94	22,431.28	50,822.23	23,880.30	19,376.35	18,110.49	21,704.68
Alabama	2.46	37.00	0.00	0.00	2.52	33.70	38.17	31.04	90.12	92.95
Alaska	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arizona	20.21	4.58	36.56	65.09	33.15	179.17	74.56	62.06	60.18	116.74
Arkansas	0.00	0.00	0.00	0.80	12.00	0.00	2.40	4.00	1.12	1.52
California	559.40	1,234.74	2,281.15	2,996.54	9,967.24	21,557.64	10,554.64	9,155.70	8,340.22	9,714.41
Colorado	21.04	109.55	184.83	161.39	1,096.06	1,824.35	462.08	536.33	442.57	456.97
Connecticut	3.19	24.88	51.43	225.18	287.22	757.50	204.14	240.52	189.03	145.61
Delaware	0.00	0.05	0.00	0.00	12.50	31.00	7.50	15.97	28.20	31.40
District of Columbia	0.00	0.71	0.00	3.10	15.48	320.22	116.00	81.56	112.97	45.85
Florida	36.20	65.74	184.56	264.04	707.79	1,201.55	269.31	265.68	228.38	344.17
Georgia	29.40	66.18	41.94	178.77	467.38	1,006.77	450.03	534.76	248.78	476.40
Hawaii	0.00	0.00	0.00	0.00	0.90	0.00	3.00	13.93	1.29	23.88
Idaho	0.00	0.00	0.00	12.00	0.00	2.00	2.23	10.67	3.06	0.68
Illinois	7.51	2.00	18.64	69.33	222.58	846.48	411.73	343.24	207.99	167.23
Indiana	7.00	17.43	0.00	0.00	1.32	55.50	17.70	70.37	26.80	68.41
Iowa	0.00	0.00	0.15	0.00	2.60	6.05	3.00	5.12	1.50	1.10
Kansas	0.00	1.00	0.00	0.00	9.40	64.82	1.59	2.25	3.27	36.51
Kentucky	0.00	0.00	2.16	32.00	57.83	111.00	8.31	3.50	3.86	26.13
Louisiana	0.00	12.01	41.50	0.00	0.00	10.60	9.76	0.28	1.48	8.53
Maine	0.00	0.00	0.20	0.00	0.00	82.60	0.15	15.09	5.76	1.55
Maryland	36.30	24.22	45.29	115.27	349.20	1,154.00	430.81	398.17	376.52	349.34
Massachusetts	165.02	365.35	591.45	980.75	2,239.42	5,589.95	2,755.53	2,361.31	2,403.18	3,300.46
Michigan	0.00	14.12	6.50	24.55	33.65	95.26	47.12	90.15	101.01	95.69

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Minnesota	77.79	26.30	40.00	65.27	180.23	583.81	309.24	265.97	233.63	308.46
Mississippi	0.00	0.00	0.00	0.00	0.00	9.00	23.00	0.85	3.00	0.95
Missouri	0.00	4.00	5.05	63.90	564.90	217.18	68.36	47.56	70.97	50.43
Montana	0.00	0.00	0.00	0.00	0.00	21.77	0.00	0.00	0.10	2.79
Nebraska	0.00	0.00	0.00	0.00	26.50	72.60	38.60	0.00	4.67	0.00
Nevada	0.00	0.00	0.00	0.00	6.40	11.10	0.00	10.67	3.50	43.34
New Hampshire	1.70	0.00	17.75	23.84	44.02	263.49	110.75	147.45	111.87	82.91
New Jersey	8.95	92.36	53.82	171.39	929.36	1,187.14	1,025.05	556.70	818.00	730.49
New Mexico	0.00	0.00	0.00	60.00	0.00	67.00	6.00	136.25	100.50	23.70
New York	17.34	53.40	84.99	406.63	1,326.90	2,880.34	970.04	554.57	541.63	602.32
North Carolina	12.00	46.03	47.80	144.42	529.14	951.05	334.60	401.80	337.69	357.92
North Dakota	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.88	39.10
Ohio	13.63	7.40	67.01	54.07	94.45	257.83	137.75	122.23	111.07	113.30
Oklahoma	0.00	0.00	0.00	4.40	0.00	0.00	0.15	27.60	7.20	15.30
Oregon	12.67	17.40	30.07	17.04	90.92	546.08	287.71	136.12	119.06	194.59
Pennsylvania	41.44	96.80	142.33	93.86	538.20	1,422.84	1,026.71	379.57	497.28	651.71
Rhode Island	0.00	0.00	0.85	0.00	1.10	42.02	15.27	48.52	54.13	68.11
South Carolina	0.00	0.00	0.00	0.00	4.35	144.25	89.10	8.58	78.45	6.55
South Dakota	0.00	0.00	0.00	0.00	37.00	10.00	0.00	1.20	0.30	0.00
Tennessee	0.00	61.46	13.32	6.50	43.21	40.82	8.51	51.15	76.82	117.77
Texas	29.54	139.98	280.03	298.03	1,046.93	3,699.26	1,824.96	1,199.86	1,151.22	1,207.89
Utah	0.00	5.00	3.50	36.70	118.37	261.23	187.41	95.25	70.12	242.22
Vermont	0.00	0.00	0.00	0.00	0.00	4.00	16.00	0.30	0.01	7.45
Virginia	36.70	68.82	94.93	123.35	483.09	1,809.22	624.36	271.35	347.83	264.23
Washington	27.18	126.03	140.73	209.25	815.30	1,182.39	853.52	635.55	448.14	992.75
West Virginia	0.00	0.00	0.00	0.00	1.50	0.88	0.75	0.50	1.18	3.10

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Wisconsin	0.00	2.21	3.93	16.48	30.79	206.77	52.70	35.05	35.55	71.77
Wyoming	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00
Puerto Rico	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Science and Engineering Indicators 2018

State Indicators

Venture capital disbursed

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	23,379.13	28,969.62	35,231.61	36,430.56	27,208.48	31,171.89	44,044.62	40,419.88	45,076.16	68,027.11
Alabama	6.18	28.47	40.14	23.57	20.52	36.26	18.37	54.01	48.28	184.02
Alaska	0.00	0.00	0.00	0.00	3.74	0.00	4.71	1.23	0.76	92.18
Arizona	81.97	297.52	272.47	317.23	161.65	127.73	259.28	445.21	384.14	381.31
Arkansas	1.04	18.30	25.48	1.10	3.26	11.08	6.69	10.67	103.77	50.66
California	11,141.17	13,828.41	16,053.83	16,979.34	13,412.46	14,492.46	22,161.50	19,832.51	20,981.70	37,056.93
Colorado	687.77	742.85	688.05	1,422.91	723.07	691.28	747.93	800.81	633.95	1,208.77
Connecticut	212.78	252.72	635.45	310.38	214.20	319.58	193.19	344.62	377.91	763.47
Delaware	151.48	65.41	49.22	45.35	32.29	14.17	23.15	70.75	52.57	50.88
District of Columbia	91.40	74.87	60.54	52.86	68.77	287.99	664.76	83.52	532.91	317.20
Florida	329.40	438.28	651.36	442.01	342.77	348.38	526.91	804.29	991.86	1,239.52
Georgia	395.01	374.84	493.85	394.30	340.45	460.85	431.58	485.94	676.50	667.42
Hawaii	29.97	37.93	21.78	51.17	18.70	62.64	36.50	16.15	32.14	23.88
Idaho	7.60	7.31	22.29	26.27	16.15	4.22	21.60	10.07	14.02	12.67
Illinois	261.64	457.74	459.49	1,080.95	290.02	1,052.95	2,122.66	804.96	697.91	1,373.58
Indiana	20.44	46.73	176.61	128.80	345.38	144.80	186.34	120.04	63.46	247.67
Iowa	0.58	51.10	35.07	28.75	17.76	38.16	56.33	56.50	41.06	70.25
Kansas	9.89	1.57	26.05	114.17	2.37	56.19	98.33	40.62	65.66	62.95
Kentucky	209.49	88.95	133.67	11.37	114.72	93.31	16.84	59.28	11.56	63.19
Louisiana	4.51	4.16	22.01	25.29	10.31	29.48	11.83	18.51	79.02	11.30
Maine	29.51	16.04	26.96	11.46	33.33	26.58	127.82	28.73	61.23	96.87
Maryland	565.20	628.79	520.86	499.53	352.35	475.37	939.35	357.29	526.67	542.57
Massachusetts	2,558.99	3,148.59	4,269.15	3,824.12	3,214.76	3,659.39	4,205.70	4,526.62	4,692.72	5,242.99
Michigan	162.29	108.77	123.78	208.69	291.26	302.76	272.81	400.42	257.92	319.89

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	212.25	302.28	441.40	486.29	377.66	284.76	387.45	362.69	451.37	434.04
Mississippi	15.52	23.50	45.17	29.00	5.39	78.61	2.22	10.89	0.82	1.69
Missouri	62.75	148.64	133.59	284.48	99.53	101.04	300.50	81.56	166.39	271.44
Montana	1.15	0.00	3.45	29.35	5.12	1.50	5.77	10.07	3.58	36.68
Nebraska	16.15	27.64	3.04	3.67	0.96	9.35	6.98	24.77	23.77	27.53
Nevada	68.95	37.16	7.66	12.17	28.56	28.46	28.87	30.91	51.74	89.91
New Hampshire	83.13	68.35	163.71	251.11	136.53	97.36	101.64	198.15	107.43	161.50
New Jersey	569.66	781.48	1,048.73	1,055.33	600.80	617.65	719.62	689.83	468.06	687.73
New Mexico	83.10	26.04	118.61	61.54	4.14	26.12	89.70	38.46	52.48	39.54
New York	1,064.18	1,243.51	1,625.18	2,188.35	1,207.17	2,192.97	3,308.66	2,666.26	4,378.37	6,662.13
North Carolina	424.76	398.26	539.96	621.77	361.29	518.59	381.59	456.68	543.58	462.08
North Dakota	6.24	0.05	2.55	16.47	0.15	5.64	1.13	2.40	1.00	4.71
Ohio	115.54	150.42	332.78	176.73	169.30	177.70	244.90	547.84	399.73	584.75
Oklahoma	11.50	50.47	19.29	61.16	19.33	9.60	49.48	49.38	15.64	47.81
Oregon	114.01	99.30	176.12	212.06	167.47	195.66	411.80	223.84	1,190.20	299.58
Pennsylvania	569.82	667.18	1,079.95	726.53	717.40	780.09	797.61	849.71	605.00	1,338.92
Rhode Island	71.70	85.44	20.18	22.06	22.32	72.01	40.39	130.22	119.83	66.16
South Carolina	12.43	11.75	120.40	23.29	20.36	72.93	18.33	45.25	63.54	81.87
South Dakota	0.00	0.00	7.90	0.00	2.20	0.00	0.00	12.02	11.93	11.47
Tennessee	125.53	60.15	188.14	117.35	120.38	82.78	209.39	243.22	315.09	503.81
Texas	1,154.64	1,514.70	1,678.52	1,570.00	1,383.28	1,500.05	1,822.51	1,636.43	2,248.11	2,380.98
Utah	144.95	237.67	254.99	424.15	199.02	210.07	379.89	310.70	424.51	1,034.95
Vermont	0.00	3.49	17.43	66.40	0.70	52.08	77.88	17.43	37.07	48.32
Virginia	461.16	467.80	584.96	823.46	332.85	466.92	612.14	467.23	593.95	589.11
Washington	943.76	1,761.47	1,713.88	1,065.72	1,146.11	719.59	758.52	1,764.84	1,276.90	1,831.00
West Virginia	1.89	4.30	6.18	1.75	1.70	3.75	2.71	15.44	5.75	0.24

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	85.95	66.87	85.98	86.68	48.12	130.34	149.36	147.70	139.10	240.33
Wyoming	0.10	1.53	3.75	2.25	0.00	0.10	1.40	0.15	46.80	8.48
Puerto Rico	0.00	10.82	0.00	11.82	0.00	0.54	0.00	11.56	0.00	0.18

Science and Engineering Indicators 2018

State Indicators

Venture capital disbursed

State	2015	2016
United States	77,397.51	70,281.89
Alabama	51.51	42.92
Alaska	0.00	0.14
Arizona	194.46	258.13
Arkansas	33.14	22.27
California	42,229.22	39,681.67
Colorado	1,131.16	838.06
Connecticut	427.47	222.73
Delaware	124.94	101.57
District of Columbia	297.92	436.68
Florida	828.64	1,534.89
Georgia	1,016.43	452.93
Hawaii	13.23	23.87
Idaho	58.11	3.23
Illinois	1,278.31	1,240.11
Indiana	159.75	146.75
Iowa	21.44	42.95
Kansas	88.80	19.22
Kentucky	26.51	80.55
Louisiana	525.71	14.12
Maine	92.02	25.54
Maryland	868.34	555.57
Massachusetts	8,063.15	6,267.25
Michigan	434.53	278.11

State Indicators

State	2015	2016
Minnesota	521.54	430.81
Mississippi	0.35	0.10
Missouri	265.78	229.39
Montana	20.92	20.83
Nebraska	111.51	18.19
Nevada	49.99	110.20
New Hampshire	171.82	138.29
New Jersey	1,100.06	567.63
New Mexico	119.25	49.38
New York	8,242.65	8,502.21
North Carolina	1,213.82	746.60
North Dakota	0.80	0.00
Ohio	368.37	353.47
Oklahoma	32.99	18.30
Oregon	228.66	271.67
Pennsylvania	879.17	1,240.55
Rhode Island	106.06	57.55
South Carolina	57.34	38.36
South Dakota	17.74	9.04
Tennessee	320.74	324.95
Texas	2,208.01	1,673.20
Utah	633.70	780.49
Vermont	38.90	10.64
Virginia	458.23	550.08
Washington	2,048.66	1,609.83
West Virginia	2.54	7.00

State Indicators

State	2015	2016
Wisconsin	202.97	228.84
Wyoming	7.95	1.11
Puerto Rico	2.20	3.92
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
United States	14,958,151	15,506,355	16,142,806	16,679,187	17,379,962	18,028,287	18,561,329
Alabama	174,710	180,665	185,878	190,319	194,404	199,980	204,861
Alaska	54,134	58,759	60,890	59,808	58,267	53,384	50,713
Arizona	245,668	254,192	264,693	270,469	280,790	291,448	302,952
Arkansas	102,951	107,287	109,226	114,456	117,922	118,677	120,689
California	1,965,886	2,036,297	2,131,199	2,223,892	2,349,338	2,491,619	2,602,672
Colorado	253,374	262,719	272,799	286,835	305,309	313,329	323,692
Connecticut	234,528	234,233	239,462	240,975	244,784	256,306	263,379
Delaware	57,471	59,937	60,628	61,109	65,888	68,864	70,387
District of Columbia	103,831	107,738	109,685	111,890	116,309	121,119	126,815
Florida	735,098	741,455	764,136	794,644	832,340	883,861	926,817
Georgia	412,485	424,126	439,058	454,238	477,522	501,522	525,360
Hawaii	68,225	70,017	72,532	74,630	76,835	80,599	83,917
Idaho	55,258	56,744	58,105	60,854	63,272	65,460	67,275
Illinois	653,476	679,776	711,370	721,876	747,641	772,182	791,608
Indiana	282,259	291,570	299,996	311,150	324,425	333,363	341,909
Iowa	141,697	148,843	158,246	162,305	169,843	175,809	178,766
Kansas	128,542	136,884	140,964	143,471	147,585	151,845	153,258
Kentucky	165,974	171,835	177,046	181,135	185,748	191,897	197,043
Louisiana	232,596	236,248	241,378	234,608	242,102	238,075	235,109
Maine	51,456	51,490	52,580	53,348	55,325	57,332	59,275
Maryland	313,952	324,830	332,500	339,443	350,430	366,242	378,280
Massachusetts	402,652	417,283	434,098	442,090	459,118	488,100	507,913
Michigan	385,021	399,437	416,701	429,644	445,209	470,611	487,239

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Minnesota	269,937	282,397	292,920	304,063	316,973	326,833	335,147
Mississippi	95,810	96,968	101,351	103,523	104,284	105,871	107,680
Missouri	255,865	257,225	266,245	275,911	282,034	292,718	300,891
Montana	38,375	41,187	42,349	43,229	45,058	45,845	45,994
Nebraska	92,231	99,935	101,973	106,765	112,087	113,458	115,345
Nevada	121,713	124,445	125,440	128,205	132,653	141,070	147,475
New Hampshire	64,159	65,214	66,948	68,558	71,100	74,269	77,855
New Jersey	489,130	493,343	514,662	531,072	542,549	564,360	581,122
New Mexico	86,079	89,261	90,146	90,834	94,707	93,230	93,297
New York	1,204,688	1,229,743	1,301,041	1,330,236	1,391,086	1,445,611	1,487,998
North Carolina	416,008	427,974	438,350	454,945	474,482	499,741	517,904
North Dakota	36,202	42,164	52,493	54,965	59,627	55,927	52,089
Ohio	498,989	528,567	550,299	564,683	591,485	607,326	625,715
Oklahoma	149,913	163,868	174,305	186,007	196,767	188,011	182,937
Oregon	191,120	199,929	196,973	196,594	203,326	216,522	226,821
Pennsylvania	596,662	615,411	637,896	659,792	684,781	708,402	724,936
Rhode Island	49,351	49,716	50,997	52,187	53,725	55,650	57,433
South Carolina	164,106	170,193	174,567	181,556	191,168	201,831	209,716
South Dakota	38,176	42,253	43,056	44,560	45,470	47,073	48,139
Tennessee	252,478	263,175	278,298	288,012	298,865	316,659	328,770
Texas	1,243,398	1,344,733	1,437,893	1,536,472	1,614,127	1,611,189	1,616,801
Utah	117,714	124,031	128,018	133,274	140,500	149,099	156,352
Vermont	26,633	27,676	28,195	28,690	29,360	30,300	31,092
Virginia	420,862	429,174	441,144	449,235	459,068	481,721	494,349
Washington	359,694	370,149	388,922	405,561	425,105	446,417	469,739
West Virginia	67,255	70,945	70,969	72,082	74,002	73,384	73,374

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Wisconsin	252,875	262,463	272,420	281,569	290,889	301,587	309,536
Wyoming	39,103	41,499	40,201	40,968	41,832	39,415	37,858
Puerto Rico	98,381	100,352	101,565	102,450	102,446	103,144	105,035

Science and Engineering Indicators 2018

State Indicators

S-59 Venture Capital Deals as a Percentage of High Science, Engineering, and Technology Employment Establishments

Description

This indicator represents the extent to which companies with high science, engineering, and technology (SET) employment in a state receive venture capital investments. The value of the indicator is calculated by dividing the number of venture capital deals by the number of companies operating in industries with high SET employment in that state. High values indicate that companies with high SET employment in a state are frequently using venture capital to facilitate their growth and development. In most cases, a company will not receive more than one infusion of venture capital in a given year. Venture capital investment can help to grow a company with high SET employment.

Venture capital data include financing at seed, early, and later stages of venture investment. Seed financing supports proof-of-concept development and initial product development and marketing. Early stage financing supports product development and marketing, the initiation of commercial manufacturing, and sales; it also supports company expansion and provides financing to prepare for an initial public offering. Later-stage financing includes acquisition financing and management and leveraged buyouts.

The U.S. Census Bureau tracks information on establishments, which it defines as single locations at which business is conducted or where services or industrial operations are performed. An establishment is not necessarily identical with a company or enterprise, which may consist of one establishment or more.

Data on business establishments operating in industries with high SET employment for the years 2003–08 are based on the establishments' classification according to the 2002 edition of the North American Industry Classification System (NAICS). The data for the years 2009–12 are based on classification according to the 2007 edition of NAICS, and subsequent years use 2012 NAICS codes. See the State Indicators data tool technical notes for a description of how industries are defined as high technology. Data for years prior to 2003 are not directly comparable.

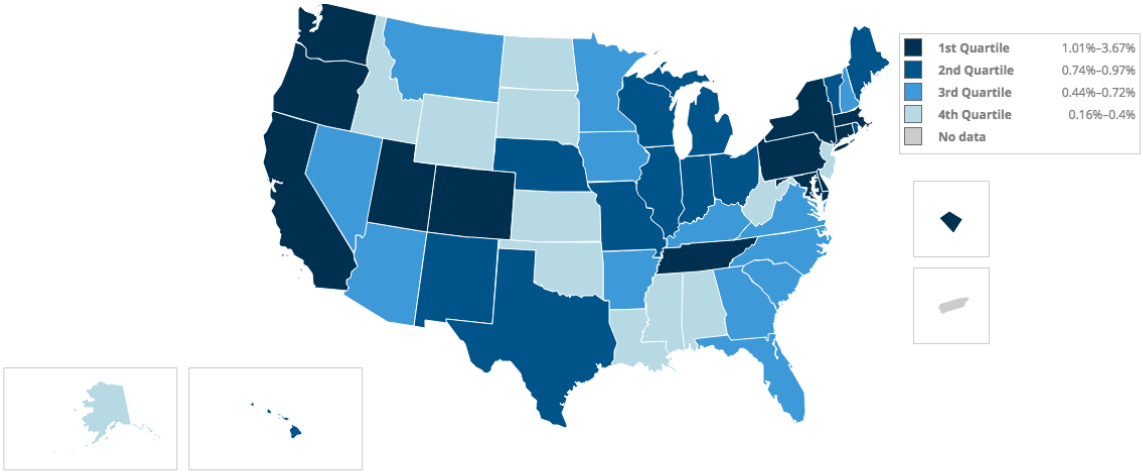
Access to venture capital financing varies greatly across the nation, and venture capital investment is concentrated in relatively few states. California and Massachusetts consistently rank highest on this indicator by a large margin. Some states have relatively few venture capital deals taking place in a given year; thus, the value of this indicator may show large fluctuations on a year-to-year basis.

Data sources: PitchBook, Venture capital and private equity database; U.S. Census Bureau, special tabulations of the Business Information Tracking Series.

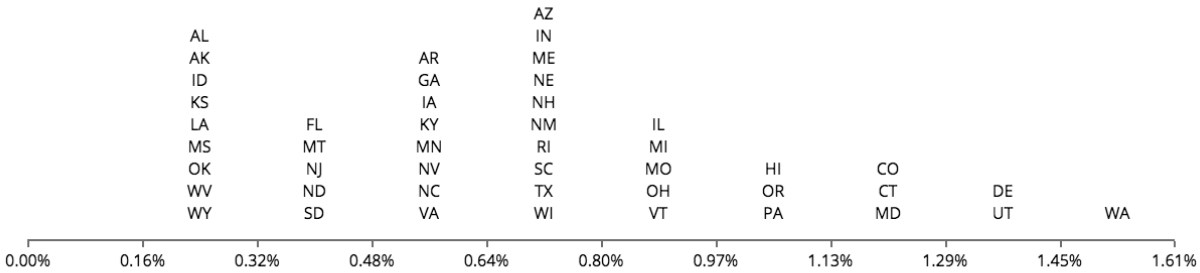
State Indicators

S-59 Venture Capital Deals as a Percentage of High Science, Engineering, and Technology Employment Establishments

2014



Distribution of states across indicator values, 2014



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

Venture Capital Deals as a Percentage of High Science, Engineering, and Technology Employment Establishments

(Percent)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	0.37	0.43	0.47	0.51	0.63	0.70	0.66	0.79	0.92	1.08
Alabama	0.16	0.20	0.12	0.15	0.18	0.16	0.18	0.21	0.16	0.24
Alaska	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.18	0.12
Arizona	0.12	0.17	0.20	0.27	0.33	0.33	0.32	0.34	0.43	0.53
Arkansas	0.02	0.05	0.07	0.11	0.09	0.02	0.15	0.21	0.18	0.22
California	1.12	1.27	1.41	1.56	1.83	2.03	1.87	2.10	2.53	2.96
Colorado	0.33	0.47	0.49	0.45	0.59	0.71	0.64	0.72	0.88	1.00
Connecticut	0.22	0.26	0.37	0.29	0.52	0.66	0.65	0.82	0.95	1.08
Delaware	0.13	0.13	0.16	0.11	0.17	0.35	0.30	0.37	0.38	1.16
District of Columbia	0.39	0.33	0.49	0.36	0.54	0.58	0.53	0.71	0.89	1.30
Florida	0.09	0.11	0.12	0.13	0.15	0.14	0.16	0.18	0.22	0.28
Georgia	0.22	0.27	0.27	0.26	0.33	0.36	0.34	0.43	0.46	0.51
Hawaii	0.10	0.46	0.40	0.34	0.48	0.65	0.51	0.91	0.84	0.85
Idaho	0.16	0.04	0.15	0.24	0.26	0.23	0.20	0.13	0.23	0.23
Illinois	0.17	0.12	0.18	0.23	0.23	0.28	0.19	0.37	0.57	0.68
Indiana	0.10	0.17	0.17	0.21	0.32	0.35	0.60	0.31	0.40	0.31
Iowa	0.05	0.07	0.05	0.09	0.11	0.19	0.21	0.32	0.25	0.34
Kansas	0.07	0.15	0.07	0.08	0.20	0.20	0.12	0.28	0.44	0.24
Kentucky	0.06	0.05	0.14	0.14	0.24	0.14	0.27	0.41	0.24	0.50
Louisiana	0.03	0.11	0.06	0.04	0.12	0.13	0.10	0.18	0.17	0.27
Maine	0.24	0.04	0.43	0.23	0.46	0.38	0.48	0.53	0.56	0.69
Maryland	0.38	0.47	0.59	0.51	0.50	0.63	0.58	0.74	0.73	0.76
Massachusetts	1.47	1.91	1.85	1.89	2.49	2.55	2.46	2.99	3.11	3.41

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Michigan	0.12	0.11	0.18	0.13	0.17	0.28	0.28	0.44	0.46	0.70
Minnesota	0.28	0.33	0.23	0.32	0.39	0.35	0.38	0.39	0.50	0.38
Mississippi	0.06	0.03	0.12	0.09	0.12	0.12	0.11	0.14	0.06	0.11
Missouri	0.13	0.13	0.14	0.19	0.22	0.28	0.23	0.24	0.53	0.82
Montana	0.05	0.04	0.17	0.00	0.16	0.12	0.16	0.04	0.19	0.30
Nebraska	0.11	0.00	0.13	0.13	0.12	0.18	0.09	0.42	0.33	0.49
Nevada	0.04	0.05	0.12	0.10	0.10	0.17	0.25	0.20	0.27	0.42
New Hampshire	0.37	0.34	0.34	0.28	0.48	0.83	0.70	0.51	0.58	0.88
New Jersey	0.26	0.27	0.29	0.29	0.38	0.40	0.37	0.44	0.41	0.39
New Mexico	0.09	0.24	0.23	0.20	0.38	0.33	0.24	0.39	0.50	0.37
New York	0.32	0.30	0.38	0.54	0.71	0.95	0.83	1.17	1.61	2.00
North Carolina	0.40	0.35	0.34	0.38	0.41	0.43	0.42	0.47	0.47	0.59
North Dakota	0.10	0.21	0.30	0.10	0.37	0.45	0.09	0.26	0.24	0.07
Ohio	0.10	0.13	0.21	0.19	0.30	0.32	0.48	0.41	0.63	0.88
Oklahoma	0.01	0.07	0.07	0.14	0.09	0.16	0.18	0.16	0.14	0.18
Oregon	0.27	0.35	0.38	0.28	0.38	0.45	0.49	0.55	0.75	0.80
Pennsylvania	0.35	0.39	0.38	0.51	0.56	0.64	0.73	0.90	0.82	0.93
Rhode Island	0.56	0.44	0.49	0.49	0.76	0.72	0.59	0.92	0.76	1.39
South Carolina	0.05	0.07	0.10	0.09	0.26	0.20	0.32	0.29	0.20	0.40
South Dakota	0.08	0.08	0.00	0.00	0.07	0.00	0.14	0.00	0.00	0.14
Tennessee	0.16	0.18	0.22	0.09	0.23	0.43	0.29	0.55	0.90	1.36
Texas	0.29	0.30	0.35	0.38	0.42	0.41	0.47	0.54	0.51	0.55
Utah	0.37	0.54	0.52	0.55	0.79	0.78	0.66	0.80	1.05	0.80
Vermont	0.07	0.20	0.07	0.26	0.70	0.45	0.39	0.63	0.96	0.63
Virginia	0.30	0.25	0.37	0.36	0.44	0.49	0.28	0.42	0.47	0.50
Washington	0.57	0.77	0.81	0.81	1.04	1.05	0.99	1.18	1.22	1.51

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
West Virginia	0.18	0.04	0.13	0.09	0.13	0.09	0.08	0.16	0.16	0.12
Wisconsin	0.12	0.13	0.23	0.24	0.36	0.34	0.32	0.36	0.64	0.65
Wyoming	0.07	0.00	0.07	0.13	0.18	0.12	0.00	0.12	0.17	0.11
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Note(s):
The national total for venture capital for the United States includes U.S. territories; The national total for establishments in high-technology industries for the United States does not include U.S. territories.

Source(s):
PitchBook, Venture capital and private equity database, data as of October 2017; U.S. Census Bureau, special tabulations of the Business Information Tracking Series (various years), data as of April 2017.

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Science and Engineering Indicators 2018

State Indicators

Venture Capital Deals as a Percentage of High Science, Engineering, and Technology Employment Establishments

(Percent)

State	2013	2014
United States	1.24	1.34
Alabama	0.17	0.24
Alaska	0.12	0.29
Arizona	0.61	0.68
Arkansas	0.49	0.58
California	3.34	3.67
Colorado	0.91	1.13
Connecticut	1.78	1.27
Delaware	1.08	1.37
District of Columbia	1.93	1.90
Florida	0.36	0.44
Georgia	0.56	0.61
Hawaii	0.86	0.97
Idaho	0.56	0.29
Illinois	0.75	0.87
Indiana	0.44	0.76
Iowa	0.35	0.58
Kansas	0.32	0.29
Kentucky	0.28	0.56
Louisiana	0.25	0.29
Maine	0.91	0.78
Maryland	0.95	1.15
Massachusetts	3.57	3.44

State Indicators

State	2013	2014
Michigan	0.81	0.85
Minnesota	0.54	0.58
Mississippi	0.08	0.16
Missouri	0.88	0.93
Montana	0.25	0.47
Nebraska	0.82	0.79
Nevada	0.43	0.53
New Hampshire	0.63	0.72
New Jersey	0.45	0.40
New Mexico	0.60	0.75
New York	2.46	2.72
North Carolina	0.65	0.63
North Dakota	0.07	0.40
Ohio	0.82	0.87
Oklahoma	0.35	0.22
Oregon	0.97	1.01
Pennsylvania	1.03	1.11
Rhode Island	1.13	0.78
South Carolina	0.40	0.65
South Dakota	0.26	0.32
Tennessee	1.35	1.73
Texas	0.74	0.74
Utah	0.90	1.33
Vermont	0.76	0.82
Virginia	0.54	0.59
Washington	1.69	1.51

State Indicators

State	2013	2014
West Virginia	0.29	0.16
Wisconsin	0.60	0.80
Wyoming	0.16	0.20
Puerto Rico	NA	NA

NA not available

Note(s):
The national total for venture capital for the United States includes U.S. territories; The national total for establishments in high-technology industries for the United States does not include U.S. territories.

Source(s):
PitchBook, Venture capital and private equity database, data as of October 2017; U.S. Census Bureau, special tabulations of the Business Information Tracking Series (various years), data as of April 2017.

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Last updated: January 18, 2018

Science and Engineering Indicators 2018

State Indicators

Venture capital deals

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	295	538	702	983	1,778	2,963	1,801	2,106	2,214	2,574
Alabama	2	2	0	0	2	6	6	6	10	13
Alaska	0	0	0	0	0	0	0	0	0	0
Arizona	2	2	4	9	10	18	10	13	13	19
Arkansas	0	0	0	1	2	0	1	2	1	2
California	127	235	317	432	755	1,157	695	820	872	1,009
Colorado	4	16	17	20	45	68	38	54	52	75
Connecticut	3	9	8	18	28	40	27	28	17	20
Delaware	0	1	0	0	2	6	3	4	5	5
District of Columbia	0	2	0	1	6	19	7	10	10	9
Florida	9	11	16	23	48	54	24	27	34	44
Georgia	8	11	14	23	47	76	42	53	42	53
Hawaii	0	0	0	0	1	0	1	4	2	10
Idaho	0	0	0	1	0	1	1	3	4	1
Illinois	2	4	7	16	33	61	46	44	46	33
Indiana	1	4	0	0	1	11	5	12	10	17
Iowa	0	0	1	1	1	3	1	4	2	3
Kansas	0	3	0	0	1	5	4	5	4	9
Kentucky	1	0	3	4	4	5	3	3	3	3
Louisiana	0	4	3	0	0	1	3	1	2	8
Maine	0	0	2	2	0	7	4	6	6	1
Maryland	8	7	11	18	30	71	35	59	51	65
Massachusetts	43	86	90	128	219	358	211	246	252	330
Michigan	0	3	2	6	12	16	11	12	21	18

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Minnesota	7	8	10	11	22	33	25	33	36	43
Mississippi	0	0	0	0	0	2	1	1	2	1
Missouri	0	2	1	5	8	12	7	11	12	13
Montana	0	0	1	0	0	2	0	0	1	1
Nebraska	0	0	0	0	3	3	2	0	3	0
Nevada	0	0	0	0	2	3	2	2	2	3
New Hampshire	2	1	4	6	7	16	9	15	13	12
New Jersey	7	9	12	23	31	74	53	59	63	65
New Mexico	1	0	1	1	0	2	1	7	3	8
New York	8	18	33	51	113	212	107	92	114	111
North Carolina	6	6	18	28	38	58	38	56	59	54
North Dakota	0	0	0	0	0	0	0	1	1	2
Ohio	5	5	8	6	14	26	21	27	19	27
Oklahoma	0	0	0	1	0	0	1	6	1	5
Oregon	5	8	7	5	12	37	19	18	20	27
Pennsylvania	15	15	27	20	45	93	70	58	79	88
Rhode Island	0	0	1	1	2	10	6	11	11	9
South Carolina	1	0	0	0	5	3	4	7	3	4
South Dakota	0	0	0	0	3	1	0	1	1	1
Tennessee	0	5	7	2	7	8	4	16	13	15
Texas	16	30	36	50	94	175	110	115	131	138
Utah	1	1	2	6	12	21	24	24	20	31
Vermont	0	0	0	0	0	1	2	1	1	3
Virginia	3	7	21	24	48	76	46	46	56	49
Washington	7	19	17	37	57	97	63	76	75	104
West Virginia	0	0	0	0	1	1	1	1	4	1

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Wisconsin	1	4	1	3	6	14	7	6	11	12
Wyoming	0	0	0	0	0	0	0	0	1	0
Puerto Rico	0	0	0	0	0	0	0	0	0	0

Science and Engineering Indicators 2018

State Indicators

Venture capital deals

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	2,928	3,250	4,115	4,519	4,267	5,109	6,001	7,190	8,336	9,264
Alabama	8	10	12	11	12	14	11	16	12	17
Alaska	0	0	0	0	1	0	3	2	2	5
Arizona	23	32	41	40	39	40	50	63	74	84
Arkansas	3	5	4	1	7	10	9	11	24	29
California	1,156	1,337	1,605	1,755	1,598	1,805	2,198	2,642	3,038	3,438
Colorado	82	78	106	128	116	132	161	190	177	225
Connecticut	29	23	41	51	49	61	71	80	132	95
Delaware	6	4	6	12	10	12	12	35	33	43
District of Columbia	14	11	17	18	18	25	32	47	74	75
Florida	49	58	69	64	68	81	97	131	170	217
Georgia	55	55	72	78	72	92	98	110	122	137
Hawaii	9	8	11	15	12	21	19	19	19	22
Idaho	4	7	8	7	6	4	7	7	17	9
Illinois	51	65	68	83	55	108	164	198	221	257
Indiana	17	21	33	35	61	32	40	32	45	79
Iowa	2	4	5	9	10	15	12	16	17	28
Kansas	4	5	12	12	7	17	27	15	20	18
Kentucky	8	8	14	8	16	24	14	30	17	35
Louisiana	4	3	9	10	8	14	14	22	21	25
Maine	11	6	12	10	13	14	15	19	25	21
Maryland	85	75	75	95	88	116	114	121	155	193
Massachusetts	317	323	435	445	423	513	535	598	641	620
Michigan	31	22	29	47	46	73	76	116	134	142

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	31	43	53	47	50	51	65	51	73	79
Mississippi	4	3	4	4	4	5	2	4	3	6
Missouri	14	19	23	29	23	24	52	81	87	94
Montana	4	0	4	3	4	1	5	8	7	13
Nebraska	4	4	4	6	3	14	11	17	29	28
Nevada	7	6	6	10	15	12	16	26	27	34
New Hampshire	12	10	17	30	25	18	20	31	22	25
New Jersey	71	71	93	97	88	104	97	92	106	94
New Mexico	8	7	14	12	9	14	18	13	21	27
New York	139	200	273	363	317	452	624	787	987	1,112
North Carolina	55	64	72	76	74	84	85	109	123	122
North Dakota	3	1	4	5	1	3	3	1	1	6
Ohio	43	39	61	64	96	83	125	176	163	178
Oklahoma	5	10	7	12	14	12	11	14	27	18
Oregon	30	23	32	38	41	47	64	69	85	90
Pennsylvania	87	119	133	152	174	215	197	224	252	275
Rhode Island	10	10	16	15	12	19	16	29	24	17
South Carolina	6	6	18	14	22	20	14	28	29	47
South Dakota	0	0	1	0	2	0	0	2	4	5
Tennessee	18	8	21	38	26	48	79	121	120	156
Texas	162	182	209	203	232	269	260	289	401	420
Utah	32	36	55	54	46	57	76	60	69	105
Vermont	1	4	11	7	6	10	15	10	12	13
Virginia	76	79	100	110	64	100	112	122	135	151
Washington	112	117	157	158	150	181	186	234	268	247
West Virginia	3	2	3	2	2	4	4	3	7	4

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	22	23	35	33	31	35	62	63	59	79
Wyoming	1	2	3	2	0	2	3	2	3	4
Puerto Rico	0	2	2	1	0	2	0	3	1	1

Science and Engineering Indicators 2018

State Indicators

Venture capital deals

State	2015	2016
United States	8,925	7,644
Alabama	12	11
Alaska	0	1
Arizona	90	76
Arkansas	24	12
California	3,343	2,849
Colorado	220	175
Connecticut	78	64
Delaware	39	31
District of Columbia	59	61
Florida	186	167
Georgia	133	107
Hawaii	14	10
Idaho	13	9
Illinois	233	244
Indiana	68	76
Iowa	22	22
Kansas	26	13
Kentucky	25	25
Louisiana	12	19
Maine	14	16
Maryland	159	134
Massachusetts	695	572
Michigan	127	100

State Indicators

State	2015	2016
Minnesota	79	54
Mississippi	3	2
Missouri	101	66
Montana	11	10
Nebraska	28	21
Nevada	32	26
New Hampshire	30	18
New Jersey	98	74
New Mexico	26	15
New York	1,089	942
North Carolina	155	118
North Dakota	3	0
Ohio	152	116
Oklahoma	21	8
Oregon	84	86
Pennsylvania	246	257
Rhode Island	19	25
South Carolina	47	32
South Dakota	8	7
Tennessee	117	75
Texas	384	348
Utah	113	90
Vermont	11	7
Virginia	112	134
Washington	258	243
West Virginia	3	1

State Indicators

State	2015	2016
Wisconsin	94	67
Wyoming	3	2
Puerto Rico	6	6
Science and Engineering Indicators 2018		

State Indicators

High SET employment establishments

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
United States	590,417	603,642	617,878	633,727	650,707	646,195	642,568	648,993	651,275	662,832
Alabama	6,347	6,407	6,463	6,613	6,783	6,754	6,806	6,786	6,757	6,753
Alaska	1,345	1,358	1,425	1,494	1,538	1,489	1,654	1,698	1,672	1,654
Arizona	10,433	10,901	11,401	11,942	12,540	12,269	12,018	11,875	11,748	11,884
Arkansas	4,012	4,142	4,249	4,373	4,550	4,675	4,755	4,852	4,891	4,890
California	77,614	79,288	82,087	85,514	87,815	86,312	85,247	85,787	86,854	89,168
Colorado	15,532	16,027	16,652	17,259	18,016	18,047	18,129	18,306	18,385	18,928
Connecticut	7,827	7,794	7,750	7,810	7,868	7,736	7,590	7,472	7,450	7,391
Delaware	3,964	3,907	3,806	3,700	3,573	3,407	3,296	3,256	3,182	3,012
District of Columbia	2,589	2,695	2,872	3,062	3,158	3,111	3,369	3,507	3,592	3,628
Florida	38,118	40,165	42,294	43,678	44,745	44,285	43,699	44,577	45,104	46,868
Georgia	18,820	19,424	20,029	20,825	21,586	21,402	21,257	21,413	21,411	21,769
Hawaii	2,097	2,152	2,233	2,325	2,305	2,294	2,338	2,309	2,271	2,226
Idaho	2,515	2,582	2,725	2,912	3,107	3,083	3,073	3,071	3,034	3,061
Illinois	27,606	28,200	28,583	28,821	29,222	29,265	28,802	28,886	28,728	29,192
Indiana	9,626	9,858	9,968	10,158	10,355	10,132	10,147	10,276	10,125	10,183
Iowa	4,316	4,324	4,396	4,548	4,679	4,659	4,655	4,745	4,747	4,738
Kansas	5,716	5,900	5,930	6,035	6,076	6,004	6,053	6,144	6,148	6,160
Kentucky	5,453	5,585	5,686	5,769	5,850	5,893	5,888	5,913	5,899	5,947
Louisiana	7,218	7,192	7,235	7,439	7,574	7,670	7,741	7,850	8,017	8,167
Maine	2,466	2,541	2,578	2,612	2,612	2,642	2,684	2,652	2,666	2,755
Maryland	13,428	13,974	14,341	14,632	15,151	15,009	15,195	15,589	15,605	15,919
Massachusetts	17,183	17,305	17,098	17,107	17,470	17,434	17,188	17,148	17,177	17,539
Michigan	16,937	16,988	17,175	17,049	17,321	16,773	16,357	16,555	16,676	16,643

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Minnesota	12,834	13,055	13,318	13,348	13,590	13,257	13,042	13,014	13,103	13,314
Mississippi	3,269	3,274	3,251	3,336	3,405	3,469	3,490	3,496	3,565	3,566
Missouri	9,562	9,745	9,831	10,130	10,238	10,178	10,218	9,956	9,863	9,852
Montana	2,108	2,229	2,314	2,415	2,515	2,564	2,557	2,593	2,590	2,658
Nebraska	2,797	2,864	2,964	3,072	3,257	3,269	3,335	3,361	3,328	3,435
Nevada	5,387	5,493	5,794	5,975	6,087	6,024	5,915	6,031	5,986	6,134
New Hampshire	3,511	3,559	3,525	3,554	3,575	3,603	3,565	3,539	3,456	3,506
New Jersey	24,286	24,256	24,426	24,534	24,688	24,307	23,598	23,686	23,413	23,352
New Mexico	3,322	3,385	3,455	3,553	3,658	3,635	3,686	3,611	3,607	3,548
New York	35,926	36,706	37,056	37,346	38,368	38,308	38,024	38,636	38,759	39,331
North Carolina	14,869	15,426	16,110	16,908	17,671	17,582	17,479	17,967	17,952	18,524
North Dakota	964	972	1,005	1,035	1,075	1,117	1,127	1,151	1,230	1,373
Ohio	19,875	20,120	20,214	20,347	20,486	20,127	20,007	20,180	19,937	20,003
Oklahoma	6,859	6,965	7,088	7,301	7,512	7,536	7,569	7,610	7,664	7,748
Oregon	7,500	7,659	7,941	8,083	8,453	8,525	8,399	8,587	8,544	8,673
Pennsylvania	22,266	22,796	23,191	23,486	23,778	23,930	23,717	23,956	23,918	24,044
Rhode Island	1,976	2,043	2,038	2,059	2,108	2,076	2,047	2,071	2,099	2,090
South Carolina	5,869	6,048	6,307	6,551	6,942	6,978	6,950	7,010	6,974	7,036
South Dakota	1,206	1,234	1,249	1,266	1,347	1,397	1,415	1,426	1,428	1,469
Tennessee	8,196	8,226	8,364	8,772	8,980	8,882	8,826	8,702	8,777	8,870
Texas	45,062	45,522	46,119	47,520	49,237	49,419	49,390	50,180	51,090	52,966
Utah	5,474	5,716	6,135	6,531	6,960	6,913	6,953	7,139	7,261	7,468
Vermont	1,453	1,498	1,511	1,535	1,570	1,548	1,555	1,581	1,569	1,578
Virginia	18,868	19,758	20,616	21,678	22,607	22,482	23,041	23,623	23,851	24,334
Washington	13,171	13,480	13,902	14,411	15,138	15,116	15,118	15,335	15,245	15,494
West Virginia	2,257	2,259	2,314	2,308	2,352	2,343	2,396	2,490	2,491	2,417

State Indicators

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Wisconsin	9,035	9,249	9,393	9,438	9,591	9,609	9,554	9,709	9,638	9,719
Wyoming	1,353	1,396	1,471	1,558	1,625	1,656	1,654	1,686	1,798	1,855
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

High SET employment establishments

State	2013	2014
United States	673,071	688,985
Alabama	6,860	7,025
Alaska	1,679	1,720
Arizona	12,092	12,408
Arkansas	4,881	4,963
California	91,000	93,710
Colorado	19,360	19,926
Connecticut	7,398	7,455
Delaware	3,053	3,131
District of Columbia	3,830	3,942
Florida	47,571	49,232
Georgia	21,958	22,355
Hawaii	2,217	2,260
Idaho	3,023	3,095
Illinois	29,319	29,704
Indiana	10,129	10,377
Iowa	4,835	4,844
Kansas	6,193	6,273
Kentucky	6,037	6,266
Louisiana	8,308	8,621
Maine	2,740	2,704
Maryland	16,370	16,806
Massachusetts	17,979	18,018
Michigan	16,607	16,648

State Indicators

State	2013	2014
Minnesota	13,493	13,645
Mississippi	3,590	3,684
Missouri	9,907	10,069
Montana	2,768	2,774
Nebraska	3,524	3,529
Nevada	6,344	6,476
New Hampshire	3,509	3,483
New Jersey	23,697	23,645
New Mexico	3,520	3,577
New York	40,102	40,942
North Carolina	18,790	19,287
North Dakota	1,430	1,510
Ohio	19,847	20,367
Oklahoma	7,785	8,093
Oregon	8,805	8,926
Pennsylvania	24,366	24,854
Rhode Island	2,130	2,175
South Carolina	7,169	7,264
South Dakota	1,533	1,552
Tennessee	8,896	9,024
Texas	54,298	56,855
Utah	7,697	7,914
Vermont	1,573	1,579
Virginia	24,880	25,565
Washington	15,831	16,331
West Virginia	2,445	2,441

State Indicators

State	2013	2014
Wisconsin	9,778	9,906
Wyoming	1,925	2,035
Puerto Rico	NA	NA

NA not available

Science and Engineering Indicators 2018

State Indicators

S-60 Venture Capital Disbursed Per Venture Capital Deal

Description

This indicator represents the average size of the venture capital investments being made in a state. The indicator is expressed as the total dollars of venture capital invested in millions divided by the number of companies receiving venture capital. This indicator provides some measure of the magnitude of investment that developing companies in a state have attracted from venture capital sources, though does not necessarily reflect the level of overall venture investment or deals in a state. The availability of venture capital may vary widely based on stage of investment, type of company, and numerous other factors.

Venture capital data include financing at seed, early, and later stages of venture investment. Seed financing supports proof-of-concept development and initial product development and marketing. Early stage financing supports product development and marketing, the initiation of commercial manufacturing, and sales; it also supports company expansion and provides financing to prepare for an initial public offering. Later-stage financing includes acquisition financing and management and leveraged buyouts.

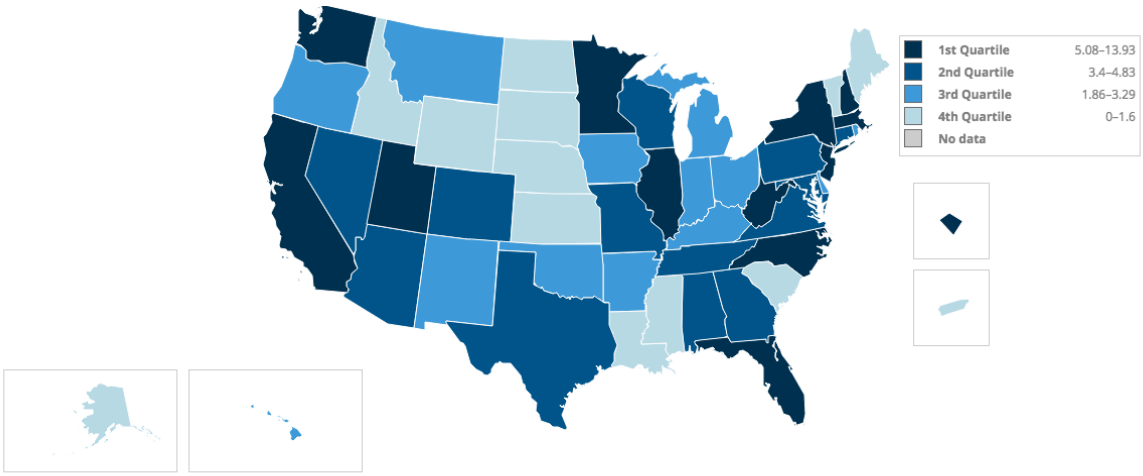
Some states have relatively few venture capital deals taking place in a given year; thus, the value of this indicator may show large fluctuations on a year-to-year basis. In states that report only several venture capital deals per year, a single large or small investment can substantially affect the value of this indicator.

Data source: PitchBook, Venture capital and private equity database.

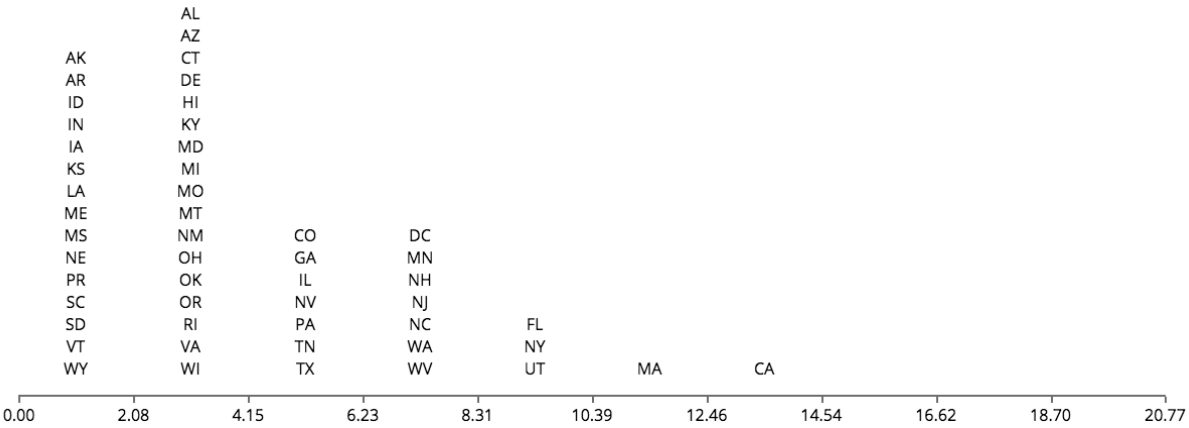
State Indicators

S-60 Venture Capital Disbursed Per Venture Capital Deal

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

Venture Capital Disbursed Per Venture Capital Deal

($millions)

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	3.95	5.07	6.43	7.04	12.62	17.15	13.26	9.20	8.18	8.43
Alabama	1.23	18.50	0.00	0.00	1.26	5.62	6.36	5.17	9.01	7.15
Alaska	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arizona	10.11	2.29	9.14	7.23	3.31	9.95	7.46	4.77	4.63	6.14
Arkansas	0.00	0.00	0.00	0.80	6.00	0.00	2.40	2.00	1.12	0.76
California	4.40	5.25	7.20	6.94	13.20	18.63	15.19	11.17	9.56	9.63
Colorado	5.26	6.85	10.87	8.07	24.36	26.83	12.16	9.93	8.51	6.09
Connecticut	1.06	2.76	6.43	12.51	10.26	18.94	7.56	8.59	11.12	7.28
Delaware	0.00	0.05	0.00	0.00	6.25	5.17	2.50	3.99	5.64	6.28
District of Columbia	0.00	0.35	0.00	3.10	2.58	16.85	16.57	8.16	11.30	5.09
Florida	4.02	5.98	11.54	11.48	14.75	22.25	11.22	9.84	6.72	7.82
Georgia	3.67	6.02	3.00	7.77	9.94	13.25	10.71	10.09	5.92	8.99
Hawaii	0.00	0.00	0.00	0.00	0.90	0.00	3.00	3.48	0.65	2.39
Idaho	0.00	0.00	0.00	12.00	0.00	2.00	2.23	3.56	0.77	0.68
Illinois	3.75	0.50	2.66	4.33	6.74	13.88	8.95	7.80	4.52	5.07
Indiana	7.00	4.36	0.00	0.00	1.32	5.05	3.54	5.86	2.68	4.02
Iowa	0.00	0.00	0.15	0.00	2.60	2.02	3.00	1.28	0.75	0.37
Kansas	0.00	0.33	0.00	0.00	9.40	12.96	0.40	0.45	0.82	4.06
Kentucky	0.00	0.00	0.72	8.00	14.46	22.20	2.77	1.17	1.29	8.71
Louisiana	0.00	3.00	13.83	0.00	0.00	10.60	3.25	0.28	0.74	1.07
Maine	0.00	0.00	0.10	0.00	0.00	11.80	0.04	2.52	0.96	1.55
Maryland	4.54	3.46	4.12	6.40	11.64	16.25	12.31	6.75	7.38	5.37
Massachusetts	3.84	4.25	6.57	7.66	10.23	15.61	13.06	9.60	9.54	10.00

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Michigan	0.00	4.71	3.25	4.09	2.80	5.95	4.28	7.51	4.81	5.32
Minnesota	11.11	3.29	4.00	5.93	8.19	17.69	12.37	8.06	6.49	7.17
Mississippi	0.00	0.00	0.00	0.00	0.00	4.50	23.00	0.85	1.50	0.95
Missouri	0.00	2.00	5.05	12.78	70.61	18.10	9.77	4.32	5.91	3.88
Montana	0.00	0.00	0.00	0.00	0.00	10.88	0.00	0.00	0.10	2.79
Nebraska	0.00	0.00	0.00	0.00	8.83	24.20	19.30	0.00	1.56	0.00
Nevada	0.00	0.00	0.00	0.00	3.20	3.70	0.00	5.33	1.75	14.45
New Hampshire	0.85	0.00	4.44	3.97	6.29	16.47	12.31	9.83	8.61	6.91
New Jersey	1.28	10.26	4.49	7.45	29.98	16.04	19.34	9.44	12.98	11.24
New Mexico	0.00	0.00	0.00	60.00	0.00	33.50	6.00	19.46	33.50	2.96
New York	2.17	2.97	2.58	7.97	11.74	13.59	9.07	6.03	4.75	5.43
North Carolina	2.00	7.67	2.66	5.16	13.92	16.40	8.81	7.17	5.72	6.63
North Dakota	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.88	19.55
Ohio	2.73	1.48	8.38	9.01	6.75	9.92	6.56	4.53	5.85	4.20
Oklahoma	0.00	0.00	0.00	4.40	0.00	0.00	0.15	4.60	7.20	3.06
Oregon	2.53	2.17	4.30	3.41	7.58	14.76	15.14	7.56	5.95	7.21
Pennsylvania	2.76	6.45	5.27	4.69	11.96	15.30	14.67	6.54	6.29	7.41
Rhode Island	0.00	0.00	0.85	0.00	0.55	4.20	2.54	4.41	4.92	7.57
South Carolina	0.00	0.00	0.00	0.00	0.87	48.08	22.27	1.23	26.15	1.64
South Dakota	0.00	0.00	0.00	0.00	12.33	10.00	0.00	1.20	0.30	0.00
Tennessee	0.00	12.29	1.90	3.25	6.17	5.10	2.13	3.20	5.91	7.85
Texas	1.85	4.67	7.78	5.96	11.14	21.14	16.59	10.43	8.79	8.75
Utah	0.00	5.00	1.75	6.12	9.86	12.44	7.81	3.97	3.51	7.81
Vermont	0.00	0.00	0.00	0.00	0.00	4.00	8.00	0.30	0.01	2.48
Virginia	12.23	9.83	4.52	5.14	10.06	23.81	13.57	5.90	6.21	5.39
Washington	3.88	6.63	8.28	5.66	14.30	12.19	13.55	8.36	5.98	9.55

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
West Virginia	0.00	0.00	0.00	0.00	1.50	0.88	0.75	0.50	0.29	3.10
Wisconsin	0.00	0.55	3.93	5.49	5.13	14.77	7.53	5.84	3.23	5.98
Wyoming	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00
Puerto Rico	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note(s):
The national total for venture capital for the United States includes U.S. territories.

Source(s):
PItchBook, Venture capital and private equity database, data as of October 2017; PitchBook, Venture capital and private equity database, data as of October 2017.

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Science and Engineering Indicators 2018

State Indicators

Venture Capital Disbursed Per Venture Capital Deal

($millions)

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	7.98	8.91	8.56	8.06	6.38	6.10	7.34	5.62	5.41	7.34
Alabama	0.77	2.85	3.35	2.14	1.71	2.59	1.67	3.38	4.02	10.82
Alaska	0.00	0.00	0.00	0.00	3.74	0.00	1.57	0.61	0.38	18.44
Arizona	3.56	9.30	6.65	7.93	4.14	3.19	5.19	7.07	5.19	4.54
Arkansas	0.35	3.66	6.37	1.10	0.47	1.11	0.74	0.97	4.32	1.75
California	9.64	10.34	10.00	9.67	8.39	8.03	10.08	7.51	6.91	10.78
Colorado	8.39	9.52	6.49	11.12	6.23	5.24	4.65	4.21	3.58	5.37
Connecticut	7.34	10.99	15.50	6.09	4.37	5.24	2.72	4.31	2.86	8.04
Delaware	25.25	16.35	8.20	3.78	3.23	1.18	1.93	2.02	1.59	1.18
District of Columbia	6.53	6.81	3.56	2.94	3.82	11.52	20.77	1.78	7.20	4.23
Florida	6.72	7.56	9.44	6.91	5.04	4.30	5.43	6.14	5.83	5.71
Georgia	7.18	6.82	6.86	5.06	4.73	5.01	4.40	4.42	5.55	4.87
Hawaii	3.33	4.74	1.98	3.41	1.56	2.98	1.92	0.85	1.69	1.09
Idaho	1.90	1.04	2.79	3.75	2.69	1.05	3.09	1.44	0.82	1.41
Illinois	5.13	7.04	6.76	13.02	5.27	9.75	12.94	4.07	3.16	5.34
Indiana	1.20	2.23	5.35	3.68	5.66	4.53	4.66	3.75	1.41	3.14
Iowa	0.29	12.78	7.01	3.19	1.78	2.54	4.69	3.53	2.42	2.51
Kansas	2.47	0.31	2.17	9.51	0.34	3.31	3.64	2.71	3.28	3.50
Kentucky	26.19	11.12	9.55	1.42	7.17	3.89	1.20	1.98	0.68	1.81
Louisiana	1.13	1.39	2.45	2.53	1.29	2.11	0.84	0.84	3.76	0.45
Maine	2.68	2.67	2.25	1.15	2.56	1.90	8.52	1.51	2.45	4.61
Maryland	6.65	8.38	6.94	5.26	4.00	4.10	8.24	2.95	3.40	2.81
Massachusetts	8.07	9.75	9.81	8.59	7.60	7.13	7.86	7.57	7.32	8.46

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Michigan	5.24	4.94	4.27	4.44	6.33	4.15	3.59	3.45	1.92	2.25
Minnesota	6.85	7.03	8.33	10.35	7.55	5.58	5.96	7.11	6.18	5.49
Mississippi	3.88	7.83	11.29	7.25	1.35	15.72	1.11	2.72	0.27	0.28
Missouri	4.48	7.82	5.81	9.81	4.33	4.21	5.78	1.01	1.91	2.89
Montana	0.29	0.00	0.86	9.78	1.28	1.50	1.15	1.26	0.51	2.82
Nebraska	4.04	6.91	0.76	0.61	0.32	0.67	0.63	1.46	0.82	0.98
Nevada	9.85	6.19	1.28	1.22	1.90	2.37	1.80	1.19	1.92	2.64
New Hampshire	6.93	6.83	9.63	8.37	5.46	5.41	5.08	6.39	4.88	6.46
New Jersey	8.02	11.01	11.28	10.88	6.83	5.94	7.42	7.50	4.42	7.32
New Mexico	10.39	3.72	8.47	5.13	0.46	1.87	4.98	2.96	2.50	1.46
New York	7.66	6.22	5.95	6.03	3.81	4.85	5.30	3.39	4.44	5.99
North Carolina	7.72	6.22	7.50	8.18	4.88	6.17	4.49	4.19	4.42	3.79
North Dakota	2.08	0.05	0.64	3.29	0.15	1.88	0.38	2.40	1.00	0.79
Ohio	2.69	3.86	5.46	2.76	1.76	2.14	1.96	3.11	2.45	3.29
Oklahoma	2.30	5.05	2.76	5.10	1.38	0.80	4.50	3.53	0.58	2.66
Oregon	3.80	4.32	5.50	5.58	4.08	4.16	6.43	3.24	14.00	3.33
Pennsylvania	6.55	5.61	8.12	4.78	4.12	3.63	4.05	3.79	2.40	4.87
Rhode Island	7.17	8.54	1.26	1.47	1.86	3.79	2.52	4.49	4.99	3.89
South Carolina	2.07	1.96	6.69	1.66	0.93	3.65	1.31	1.62	2.19	1.74
South Dakota	0.00	0.00	7.90	0.00	1.10	0.00	0.00	6.01	2.98	2.29
Tennessee	6.97	7.52	8.96	3.09	4.63	1.72	2.65	2.01	2.63	3.23
Texas	7.13	8.32	8.03	7.73	5.96	5.58	7.01	5.66	5.61	5.67
Utah	4.53	6.60	4.64	7.85	4.33	3.69	5.00	5.18	6.15	9.86
Vermont	0.00	0.87	1.58	9.49	0.12	5.21	5.19	1.74	3.09	3.72
Virginia	6.07	5.92	5.85	7.49	5.20	4.67	5.47	3.83	4.40	3.90
Washington	8.43	15.06	10.92	6.75	7.64	3.98	4.08	7.54	4.76	7.41

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
West Virginia	0.63	2.15	2.06	0.88	0.85	0.94	0.68	5.15	0.82	0.06
Wisconsin	3.91	2.91	2.46	2.63	1.55	3.72	2.41	2.34	2.36	3.04
Wyoming	0.10	0.77	1.25	1.13	0.00	0.05	0.47	0.07	15.60	2.12
Puerto Rico	0.00	5.41	0.00	11.82	0.00	0.27	0.00	3.85	0.00	0.18

Note(s):
The national total for venture capital for the United States includes U.S. territories.

Source(s):
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Science and Engineering Indicators 2018

State Indicators

Venture Capital Disbursed Per Venture Capital Deal

($millions)

State	2015	2016
United States	8.67	9.19
Alabama	4.29	3.90
Alaska	0.00	0.14
Arizona	2.16	3.40
Arkansas	1.38	1.86
California	12.63	13.93
Colorado	5.14	4.79
Connecticut	5.48	3.48
Delaware	3.20	3.28
District of Columbia	5.05	7.16
Florida	4.46	9.19
Georgia	7.64	4.23
Hawaii	0.95	2.39
Idaho	4.47	0.36
Illinois	5.49	5.08
Indiana	2.35	1.93
Iowa	0.97	1.95
Kansas	3.42	1.48
Kentucky	1.06	3.22
Louisiana	43.81	0.74
Maine	6.57	1.60
Maryland	5.46	4.15
Massachusetts	11.60	10.96

State Indicators

State	2015	2016
Michigan	3.42	2.78
Minnesota	6.60	7.98
Mississippi	0.12	0.05
Missouri	2.63	3.48
Montana	1.90	2.08
Nebraska	3.98	0.87
Nevada	1.56	4.24
New Hampshire	5.73	7.68
New Jersey	11.23	7.67
New Mexico	4.59	3.29
New York	7.57	9.03
North Carolina	7.83	6.33
North Dakota	0.27	0.00
Ohio	2.42	3.05
Oklahoma	1.57	2.29
Oregon	2.72	3.16
Pennsylvania	3.57	4.83
Rhode Island	5.58	2.30
South Carolina	1.22	1.20
South Dakota	2.22	1.29
Tennessee	2.74	4.33
Texas	5.75	4.81
Utah	5.61	8.67
Vermont	3.54	1.52
Virginia	4.09	4.11
Washington	7.94	6.62

State Indicators

State	2015	2016
West Virginia	0.85	7.00
Wisconsin	2.16	3.42
Wyoming	2.65	0.56
Puerto Rico	0.37	0.65

Note(s):
The national total for venture capital for the United States includes U.S. territories.

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Science and Engineering Indicators 2018

State Indicators

Venture capital disbursed

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	1,166.67	2,726.75	4,512.47	6,923.94	22,431.28	50,822.23	23,880.30	19,376.35	18,110.49	21,704.68
Alabama	2.46	37.00	0.00	0.00	2.52	33.70	38.17	31.04	90.12	92.95
Alaska	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arizona	20.21	4.58	36.56	65.09	33.15	179.17	74.56	62.06	60.18	116.74
Arkansas	0.00	0.00	0.00	0.80	12.00	0.00	2.40	4.00	1.12	1.52
California	559.40	1,234.74	2,281.15	2,996.54	9,967.24	21,557.64	10,554.64	9,155.70	8,340.22	9,714.41
Colorado	21.04	109.55	184.83	161.39	1,096.06	1,824.35	462.08	536.33	442.57	456.97
Connecticut	3.19	24.88	51.43	225.18	287.22	757.50	204.14	240.52	189.03	145.61
Delaware	0.00	0.05	0.00	0.00	12.50	31.00	7.50	15.97	28.20	31.40
District of Columbia	0.00	0.71	0.00	3.10	15.48	320.22	116.00	81.56	112.97	45.85
Florida	36.20	65.74	184.56	264.04	707.79	1,201.55	269.31	265.68	228.38	344.17
Georgia	29.40	66.18	41.94	178.77	467.38	1,006.77	450.03	534.76	248.78	476.40
Hawaii	0.00	0.00	0.00	0.00	0.90	0.00	3.00	13.93	1.29	23.88
Idaho	0.00	0.00	0.00	12.00	0.00	2.00	2.23	10.67	3.06	0.68
Illinois	7.51	2.00	18.64	69.33	222.58	846.48	411.73	343.24	207.99	167.23
Indiana	7.00	17.43	0.00	0.00	1.32	55.50	17.70	70.37	26.80	68.41
Iowa	0.00	0.00	0.15	0.00	2.60	6.05	3.00	5.12	1.50	1.10
Kansas	0.00	1.00	0.00	0.00	9.40	64.82	1.59	2.25	3.27	36.51
Kentucky	0.00	0.00	2.16	32.00	57.83	111.00	8.31	3.50	3.86	26.13
Louisiana	0.00	12.01	41.50	0.00	0.00	10.60	9.76	0.28	1.48	8.53
Maine	0.00	0.00	0.20	0.00	0.00	82.60	0.15	15.09	5.76	1.55
Maryland	36.30	24.22	45.29	115.27	349.20	1,154.00	430.81	398.17	376.52	349.34
Massachusetts	165.02	365.35	591.45	980.75	2,239.42	5,589.95	2,755.53	2,361.31	2,403.18	3,300.46
Michigan	0.00	14.12	6.50	24.55	33.65	95.26	47.12	90.15	101.01	95.69

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Minnesota	77.79	26.30	40.00	65.27	180.23	583.81	309.24	265.97	233.63	308.46
Mississippi	0.00	0.00	0.00	0.00	0.00	9.00	23.00	0.85	3.00	0.95
Missouri	0.00	4.00	5.05	63.90	564.90	217.18	68.36	47.56	70.97	50.43
Montana	0.00	0.00	0.00	0.00	0.00	21.77	0.00	0.00	0.10	2.79
Nebraska	0.00	0.00	0.00	0.00	26.50	72.60	38.60	0.00	4.67	0.00
Nevada	0.00	0.00	0.00	0.00	6.40	11.10	0.00	10.67	3.50	43.34
New Hampshire	1.70	0.00	17.75	23.84	44.02	263.49	110.75	147.45	111.87	82.91
New Jersey	8.95	92.36	53.82	171.39	929.36	1,187.14	1,025.05	556.70	818.00	730.49
New Mexico	0.00	0.00	0.00	60.00	0.00	67.00	6.00	136.25	100.50	23.70
New York	17.34	53.40	84.99	406.63	1,326.90	2,880.34	970.04	554.57	541.63	602.32
North Carolina	12.00	46.03	47.80	144.42	529.14	951.05	334.60	401.80	337.69	357.92
North Dakota	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.88	39.10
Ohio	13.63	7.40	67.01	54.07	94.45	257.83	137.75	122.23	111.07	113.30
Oklahoma	0.00	0.00	0.00	4.40	0.00	0.00	0.15	27.60	7.20	15.30
Oregon	12.67	17.40	30.07	17.04	90.92	546.08	287.71	136.12	119.06	194.59
Pennsylvania	41.44	96.80	142.33	93.86	538.20	1,422.84	1,026.71	379.57	497.28	651.71
Rhode Island	0.00	0.00	0.85	0.00	1.10	42.02	15.27	48.52	54.13	68.11
South Carolina	0.00	0.00	0.00	0.00	4.35	144.25	89.10	8.58	78.45	6.55
South Dakota	0.00	0.00	0.00	0.00	37.00	10.00	0.00	1.20	0.30	0.00
Tennessee	0.00	61.46	13.32	6.50	43.21	40.82	8.51	51.15	76.82	117.77
Texas	29.54	139.98	280.03	298.03	1,046.93	3,699.26	1,824.96	1,199.86	1,151.22	1,207.89
Utah	0.00	5.00	3.50	36.70	118.37	261.23	187.41	95.25	70.12	242.22
Vermont	0.00	0.00	0.00	0.00	0.00	4.00	16.00	0.30	0.01	7.45
Virginia	36.70	68.82	94.93	123.35	483.09	1,809.22	624.36	271.35	347.83	264.23
Washington	27.18	126.03	140.73	209.25	815.30	1,182.39	853.52	635.55	448.14	992.75
West Virginia	0.00	0.00	0.00	0.00	1.50	0.88	0.75	0.50	1.18	3.10

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Wisconsin	0.00	2.21	3.93	16.48	30.79	206.77	52.70	35.05	35.55	71.77
Wyoming	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00
Puerto Rico	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Science and Engineering Indicators 2018

State Indicators

Venture capital disbursed

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	23,379.13	28,969.62	35,231.61	36,430.56	27,208.48	31,171.89	44,044.62	40,419.88	45,076.16	68,027.11
Alabama	6.18	28.47	40.14	23.57	20.52	36.26	18.37	54.01	48.28	184.02
Alaska	0.00	0.00	0.00	0.00	3.74	0.00	4.71	1.23	0.76	92.18
Arizona	81.97	297.52	272.47	317.23	161.65	127.73	259.28	445.21	384.14	381.31
Arkansas	1.04	18.30	25.48	1.10	3.26	11.08	6.69	10.67	103.77	50.66
California	11,141.17	13,828.41	16,053.83	16,979.34	13,412.46	14,492.46	22,161.50	19,832.51	20,981.70	37,056.93
Colorado	687.77	742.85	688.05	1,422.91	723.07	691.28	747.93	800.81	633.95	1,208.77
Connecticut	212.78	252.72	635.45	310.38	214.20	319.58	193.19	344.62	377.91	763.47
Delaware	151.48	65.41	49.22	45.35	32.29	14.17	23.15	70.75	52.57	50.88
District of Columbia	91.40	74.87	60.54	52.86	68.77	287.99	664.76	83.52	532.91	317.20
Florida	329.40	438.28	651.36	442.01	342.77	348.38	526.91	804.29	991.86	1,239.52
Georgia	395.01	374.84	493.85	394.30	340.45	460.85	431.58	485.94	676.50	667.42
Hawaii	29.97	37.93	21.78	51.17	18.70	62.64	36.50	16.15	32.14	23.88
Idaho	7.60	7.31	22.29	26.27	16.15	4.22	21.60	10.07	14.02	12.67
Illinois	261.64	457.74	459.49	1,080.95	290.02	1,052.95	2,122.66	804.96	697.91	1,373.58
Indiana	20.44	46.73	176.61	128.80	345.38	144.80	186.34	120.04	63.46	247.67
Iowa	0.58	51.10	35.07	28.75	17.76	38.16	56.33	56.50	41.06	70.25
Kansas	9.89	1.57	26.05	114.17	2.37	56.19	98.33	40.62	65.66	62.95
Kentucky	209.49	88.95	133.67	11.37	114.72	93.31	16.84	59.28	11.56	63.19
Louisiana	4.51	4.16	22.01	25.29	10.31	29.48	11.83	18.51	79.02	11.30
Maine	29.51	16.04	26.96	11.46	33.33	26.58	127.82	28.73	61.23	96.87
Maryland	565.20	628.79	520.86	499.53	352.35	475.37	939.35	357.29	526.67	542.57
Massachusetts	2,558.99	3,148.59	4,269.15	3,824.12	3,214.76	3,659.39	4,205.70	4,526.62	4,692.72	5,242.99
Michigan	162.29	108.77	123.78	208.69	291.26	302.76	272.81	400.42	257.92	319.89

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	212.25	302.28	441.40	486.29	377.66	284.76	387.45	362.69	451.37	434.04
Mississippi	15.52	23.50	45.17	29.00	5.39	78.61	2.22	10.89	0.82	1.69
Missouri	62.75	148.64	133.59	284.48	99.53	101.04	300.50	81.56	166.39	271.44
Montana	1.15	0.00	3.45	29.35	5.12	1.50	5.77	10.07	3.58	36.68
Nebraska	16.15	27.64	3.04	3.67	0.96	9.35	6.98	24.77	23.77	27.53
Nevada	68.95	37.16	7.66	12.17	28.56	28.46	28.87	30.91	51.74	89.91
New Hampshire	83.13	68.35	163.71	251.11	136.53	97.36	101.64	198.15	107.43	161.50
New Jersey	569.66	781.48	1,048.73	1,055.33	600.80	617.65	719.62	689.83	468.06	687.73
New Mexico	83.10	26.04	118.61	61.54	4.14	26.12	89.70	38.46	52.48	39.54
New York	1,064.18	1,243.51	1,625.18	2,188.35	1,207.17	2,192.97	3,308.66	2,666.26	4,378.37	6,662.13
North Carolina	424.76	398.26	539.96	621.77	361.29	518.59	381.59	456.68	543.58	462.08
North Dakota	6.24	0.05	2.55	16.47	0.15	5.64	1.13	2.40	1.00	4.71
Ohio	115.54	150.42	332.78	176.73	169.30	177.70	244.90	547.84	399.73	584.75
Oklahoma	11.50	50.47	19.29	61.16	19.33	9.60	49.48	49.38	15.64	47.81
Oregon	114.01	99.30	176.12	212.06	167.47	195.66	411.80	223.84	1,190.20	299.58
Pennsylvania	569.82	667.18	1,079.95	726.53	717.40	780.09	797.61	849.71	605.00	1,338.92
Rhode Island	71.70	85.44	20.18	22.06	22.32	72.01	40.39	130.22	119.83	66.16
South Carolina	12.43	11.75	120.40	23.29	20.36	72.93	18.33	45.25	63.54	81.87
South Dakota	0.00	0.00	7.90	0.00	2.20	0.00	0.00	12.02	11.93	11.47
Tennessee	125.53	60.15	188.14	117.35	120.38	82.78	209.39	243.22	315.09	503.81
Texas	1,154.64	1,514.70	1,678.52	1,570.00	1,383.28	1,500.05	1,822.51	1,636.43	2,248.11	2,380.98
Utah	144.95	237.67	254.99	424.15	199.02	210.07	379.89	310.70	424.51	1,034.95
Vermont	0.00	3.49	17.43	66.40	0.70	52.08	77.88	17.43	37.07	48.32
Virginia	461.16	467.80	584.96	823.46	332.85	466.92	612.14	467.23	593.95	589.11
Washington	943.76	1,761.47	1,713.88	1,065.72	1,146.11	719.59	758.52	1,764.84	1,276.90	1,831.00
West Virginia	1.89	4.30	6.18	1.75	1.70	3.75	2.71	15.44	5.75	0.24

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	85.95	66.87	85.98	86.68	48.12	130.34	149.36	147.70	139.10	240.33
Wyoming	0.10	1.53	3.75	2.25	0.00	0.10	1.40	0.15	46.80	8.48
Puerto Rico	0.00	10.82	0.00	11.82	0.00	0.54	0.00	11.56	0.00	0.18

Science and Engineering Indicators 2018

State Indicators

Venture capital disbursed

State	2015	2016
United States	77,397.51	70,281.89
Alabama	51.51	42.92
Alaska	0.00	0.14
Arizona	194.46	258.13
Arkansas	33.14	22.27
California	42,229.22	39,681.67
Colorado	1,131.16	838.06
Connecticut	427.47	222.73
Delaware	124.94	101.57
District of Columbia	297.92	436.68
Florida	828.64	1,534.89
Georgia	1,016.43	452.93
Hawaii	13.23	23.87
Idaho	58.11	3.23
Illinois	1,278.31	1,240.11
Indiana	159.75	146.75
Iowa	21.44	42.95
Kansas	88.80	19.22
Kentucky	26.51	80.55
Louisiana	525.71	14.12
Maine	92.02	25.54
Maryland	868.34	555.57
Massachusetts	8,063.15	6,267.25
Michigan	434.53	278.11

State Indicators

State	2015	2016
Minnesota	521.54	430.81
Mississippi	0.35	0.10
Missouri	265.78	229.39
Montana	20.92	20.83
Nebraska	111.51	18.19
Nevada	49.99	110.20
New Hampshire	171.82	138.29
New Jersey	1,100.06	567.63
New Mexico	119.25	49.38
New York	8,242.65	8,502.21
North Carolina	1,213.82	746.60
North Dakota	0.80	0.00
Ohio	368.37	353.47
Oklahoma	32.99	18.30
Oregon	228.66	271.67
Pennsylvania	879.17	1,240.55
Rhode Island	106.06	57.55
South Carolina	57.34	38.36
South Dakota	17.74	9.04
Tennessee	320.74	324.95
Texas	2,208.01	1,673.20
Utah	633.70	780.49
Vermont	38.90	10.64
Virginia	458.23	550.08
Washington	2,048.66	1,609.83
West Virginia	2.54	7.00

State Indicators

State	2015	2016
Wisconsin	202.97	228.84
Wyoming	7.95	1.11
Puerto Rico	2.20	3.92
Science and Engineering Indicators 2018		

State Indicators

Venture capital deals

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
United States	295	538	702	983	1,778	2,963	1,801	2,106	2,214	2,574
Alabama	2	2	0	0	2	6	6	6	10	13
Alaska	0	0	0	0	0	0	0	0	0	0
Arizona	2	2	4	9	10	18	10	13	13	19
Arkansas	0	0	0	1	2	0	1	2	1	2
California	127	235	317	432	755	1,157	695	820	872	1,009
Colorado	4	16	17	20	45	68	38	54	52	75
Connecticut	3	9	8	18	28	40	27	28	17	20
Delaware	0	1	0	0	2	6	3	4	5	5
District of Columbia	0	2	0	1	6	19	7	10	10	9
Florida	9	11	16	23	48	54	24	27	34	44
Georgia	8	11	14	23	47	76	42	53	42	53
Hawaii	0	0	0	0	1	0	1	4	2	10
Idaho	0	0	0	1	0	1	1	3	4	1
Illinois	2	4	7	16	33	61	46	44	46	33
Indiana	1	4	0	0	1	11	5	12	10	17
Iowa	0	0	1	1	1	3	1	4	2	3
Kansas	0	3	0	0	1	5	4	5	4	9
Kentucky	1	0	3	4	4	5	3	3	3	3
Louisiana	0	4	3	0	0	1	3	1	2	8
Maine	0	0	2	2	0	7	4	6	6	1
Maryland	8	7	11	18	30	71	35	59	51	65
Massachusetts	43	86	90	128	219	358	211	246	252	330
Michigan	0	3	2	6	12	16	11	12	21	18

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Minnesota	7	8	10	11	22	33	25	33	36	43
Mississippi	0	0	0	0	0	2	1	1	2	1
Missouri	0	2	1	5	8	12	7	11	12	13
Montana	0	0	1	0	0	2	0	0	1	1
Nebraska	0	0	0	0	3	3	2	0	3	0
Nevada	0	0	0	0	2	3	2	2	2	3
New Hampshire	2	1	4	6	7	16	9	15	13	12
New Jersey	7	9	12	23	31	74	53	59	63	65
New Mexico	1	0	1	1	0	2	1	7	3	8
New York	8	18	33	51	113	212	107	92	114	111
North Carolina	6	6	18	28	38	58	38	56	59	54
North Dakota	0	0	0	0	0	0	0	1	1	2
Ohio	5	5	8	6	14	26	21	27	19	27
Oklahoma	0	0	0	1	0	0	1	6	1	5
Oregon	5	8	7	5	12	37	19	18	20	27
Pennsylvania	15	15	27	20	45	93	70	58	79	88
Rhode Island	0	0	1	1	2	10	6	11	11	9
South Carolina	1	0	0	0	5	3	4	7	3	4
South Dakota	0	0	0	0	3	1	0	1	1	1
Tennessee	0	5	7	2	7	8	4	16	13	15
Texas	16	30	36	50	94	175	110	115	131	138
Utah	1	1	2	6	12	21	24	24	20	31
Vermont	0	0	0	0	0	1	2	1	1	3
Virginia	3	7	21	24	48	76	46	46	56	49
Washington	7	19	17	37	57	97	63	76	75	104
West Virginia	0	0	0	0	1	1	1	1	4	1

State Indicators

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Wisconsin	1	4	1	3	6	14	7	6	11	12
Wyoming	0	0	0	0	0	0	0	0	1	0
Puerto Rico	0	0	0	0	0	0	0	0	0	0

Science and Engineering Indicators 2018

State Indicators

Venture capital deals

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
United States	2,928	3,250	4,115	4,519	4,267	5,109	6,001	7,190	8,336	9,264
Alabama	8	10	12	11	12	14	11	16	12	17
Alaska	0	0	0	0	1	0	3	2	2	5
Arizona	23	32	41	40	39	40	50	63	74	84
Arkansas	3	5	4	1	7	10	9	11	24	29
California	1,156	1,337	1,605	1,755	1,598	1,805	2,198	2,642	3,038	3,438
Colorado	82	78	106	128	116	132	161	190	177	225
Connecticut	29	23	41	51	49	61	71	80	132	95
Delaware	6	4	6	12	10	12	12	35	33	43
District of Columbia	14	11	17	18	18	25	32	47	74	75
Florida	49	58	69	64	68	81	97	131	170	217
Georgia	55	55	72	78	72	92	98	110	122	137
Hawaii	9	8	11	15	12	21	19	19	19	22
Idaho	4	7	8	7	6	4	7	7	17	9
Illinois	51	65	68	83	55	108	164	198	221	257
Indiana	17	21	33	35	61	32	40	32	45	79
Iowa	2	4	5	9	10	15	12	16	17	28
Kansas	4	5	12	12	7	17	27	15	20	18
Kentucky	8	8	14	8	16	24	14	30	17	35
Louisiana	4	3	9	10	8	14	14	22	21	25
Maine	11	6	12	10	13	14	15	19	25	21
Maryland	85	75	75	95	88	116	114	121	155	193
Massachusetts	317	323	435	445	423	513	535	598	641	620
Michigan	31	22	29	47	46	73	76	116	134	142

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Minnesota	31	43	53	47	50	51	65	51	73	79
Mississippi	4	3	4	4	4	5	2	4	3	6
Missouri	14	19	23	29	23	24	52	81	87	94
Montana	4	0	4	3	4	1	5	8	7	13
Nebraska	4	4	4	6	3	14	11	17	29	28
Nevada	7	6	6	10	15	12	16	26	27	34
New Hampshire	12	10	17	30	25	18	20	31	22	25
New Jersey	71	71	93	97	88	104	97	92	106	94
New Mexico	8	7	14	12	9	14	18	13	21	27
New York	139	200	273	363	317	452	624	787	987	1,112
North Carolina	55	64	72	76	74	84	85	109	123	122
North Dakota	3	1	4	5	1	3	3	1	1	6
Ohio	43	39	61	64	96	83	125	176	163	178
Oklahoma	5	10	7	12	14	12	11	14	27	18
Oregon	30	23	32	38	41	47	64	69	85	90
Pennsylvania	87	119	133	152	174	215	197	224	252	275
Rhode Island	10	10	16	15	12	19	16	29	24	17
South Carolina	6	6	18	14	22	20	14	28	29	47
South Dakota	0	0	1	0	2	0	0	2	4	5
Tennessee	18	8	21	38	26	48	79	121	120	156
Texas	162	182	209	203	232	269	260	289	401	420
Utah	32	36	55	54	46	57	76	60	69	105
Vermont	1	4	11	7	6	10	15	10	12	13
Virginia	76	79	100	110	64	100	112	122	135	151
Washington	112	117	157	158	150	181	186	234	268	247
West Virginia	3	2	3	2	2	4	4	3	7	4

State Indicators

State	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Wisconsin	22	23	35	33	31	35	62	63	59	79
Wyoming	1	2	3	2	0	2	3	2	3	4
Puerto Rico	0	2	2	1	0	2	0	3	1	1

Science and Engineering Indicators 2018

State Indicators

Venture capital deals

State	2015	2016
United States	8,925	7,644
Alabama	12	11
Alaska	0	1
Arizona	90	76
Arkansas	24	12
California	3,343	2,849
Colorado	220	175
Connecticut	78	64
Delaware	39	31
District of Columbia	59	61
Florida	186	167
Georgia	133	107
Hawaii	14	10
Idaho	13	9
Illinois	233	244
Indiana	68	76
Iowa	22	22
Kansas	26	13
Kentucky	25	25
Louisiana	12	19
Maine	14	16
Maryland	159	134
Massachusetts	695	572
Michigan	127	100

State Indicators

State	2015	2016
Minnesota	79	54
Mississippi	3	2
Missouri	101	66
Montana	11	10
Nebraska	28	21
Nevada	32	26
New Hampshire	30	18
New Jersey	98	74
New Mexico	26	15
New York	1,089	942
North Carolina	155	118
North Dakota	3	0
Ohio	152	116
Oklahoma	21	8
Oregon	84	86
Pennsylvania	246	257
Rhode Island	19	25
South Carolina	47	32
South Dakota	8	7
Tennessee	117	75
Texas	384	348
Utah	113	90
Vermont	11	7
Virginia	112	134
Washington	258	243
West Virginia	3	1

State Indicators

State	2015	2016
Wisconsin	94	67
Wyoming	3	2
Puerto Rico	6	6
Science and Engineering Indicators 2018		