

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.

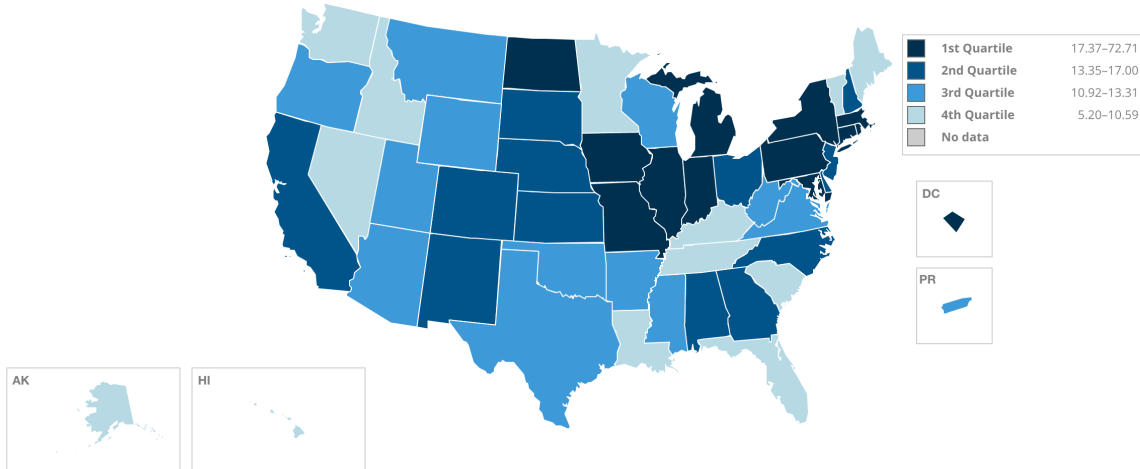
A high value for this indicator may suggest the successful provision of graduate training in SEH fields. Student mobility after graduation is not accounted for, which may make this indicator less meaningful in predicting the qualifications of a state's future technical workforce. A state's value for 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.

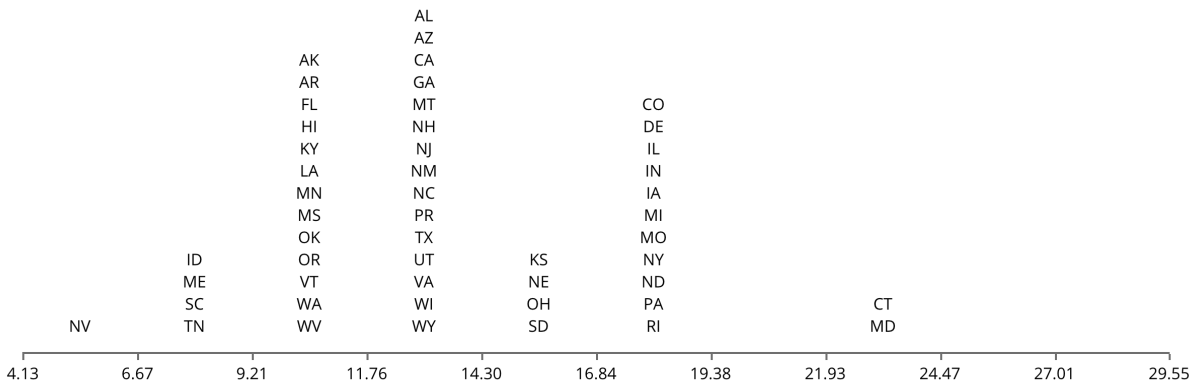
State Indicators

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 2018.

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: September 27, 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	14.25	14.21	14.76	15.01	14.76
Alabama	12.48	15.21	14.47	14.69	14.05	14.55	13.77
Alaska	11.71	11.46	10.80	10.84	10.51	10.13	9.34
Arizona	11.09	11.58	11.91	11.61	12.12	12.07	12.14
Arkansas	8.64	8.31	8.55	7.98	9.09	10.35	11.61
California	13.56	13.18	12.88	13.16	13.90	14.03	13.35
Colorado	17.00	17.39	16.90	16.80	17.82	17.60	17.00
Connecticut	23.91	20.66	19.78	20.91	22.05	23.68	23.91
Delaware	18.96	18.12	17.95	18.06	18.69	18.37	16.98
District of Columbia	85.17	81.41	77.92	74.84	73.38	78.16	72.71
Florida	12.36	11.70	11.38	11.10	10.70	10.79	10.02
Georgia	9.50	9.92	10.32	10.36	12.45	13.06	13.77
Hawaii	12.55	13.42	12.07	10.96	11.39	10.76	9.82
Idaho	10.84	10.66	9.72	9.31	8.82	8.92	8.92
Illinois	16.47	16.39	16.16	16.25	17.80	18.61	18.53
Indiana	15.33	15.15	15.83	15.74	17.44	17.64	18.25
Iowa	16.67	15.59	14.92	15.26	17.09	17.62	17.91
Kansas	17.01	16.40	15.92	15.66	16.30	15.98	15.59
Kentucky	9.68	9.58	9.42	9.28	10.00	9.84	9.67
Louisiana	11.52	11.11	10.65	11.02	10.95	10.31	9.85
Maine	5.22	5.64	4.71	4.69	7.24	8.09	8.68
Maryland	20.47	19.81	19.05	18.28	22.33	22.88	23.03
Massachusetts	33.79	33.08	33.47	34.62	34.33	33.54	34.12

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
Michigan	16.95	16.28	16.23	16.68	17.55	18.11	18.08
Minnesota	23.66	23.07	22.30	20.76	9.06	9.52	10.59
Mississippi	10.18	10.27	10.10	9.89	11.57	11.88	11.42
Missouri	12.35	12.14	12.66	13.31	15.97	17.64	17.37
Montana	12.17	11.68	11.42	11.01	11.90	11.39	12.60
Nebraska	17.21	15.39	15.30	16.01	16.03	16.37	16.35
Nevada	6.74	5.99	6.02	5.65	5.62	5.36	5.20
New Hampshire	13.24	12.65	13.51	13.40	14.24	14.00	13.90
New Jersey	12.28	11.49	11.99	11.87	12.73	13.94	13.42
New Mexico	16.01	15.48	15.10	14.62	14.57	14.06	13.96
New York	19.52	19.15	18.55	18.13	18.94	19.08	18.83
North Carolina	14.10	14.43	14.43	13.97	14.59	14.99	14.28
North Dakota	20.51	20.00	19.71	19.03	17.14	16.74	18.25
Ohio	16.81	16.41	16.54	16.25	16.23	16.48	16.26
Oklahoma	11.72	11.93	11.60	11.35	12.82	12.62	11.70
Oregon	10.99	10.62	11.03	11.39	11.29	11.70	11.71
Pennsylvania	16.96	15.93	16.47	16.81	18.06	17.79	18.58
Rhode Island	20.25	19.33	19.01	18.20	17.75	18.64	18.24
South Carolina	7.57	7.90	8.06	8.49	8.55	8.55	8.18
South Dakota	14.89	13.29	13.90	12.99	15.67	15.80	15.04
Tennessee	9.48	9.47	9.56	8.96	8.90	9.03	8.62
Texas	12.59	12.26	12.21	12.25	13.09	13.51	12.93
Utah	12.92	13.79	13.18	13.30	13.37	13.47	13.14
Vermont	11.16	10.43	9.78	8.80	9.56	9.78	9.70
Virginia	15.54	14.99	14.19	13.76	13.62	13.69	13.31
Washington	9.88	9.86	9.84	9.71	10.40	10.18	10.22

State Indicators

State	2010	2011	2012	2013	2014	2015	2016
West Virginia	11.73	11.03	11.13	11.08	11.23	11.48	10.92
Wisconsin	13.97	13.63	13.93	13.47	13.04	12.75	12.93
Wyoming	14.10	14.21	14.26	13.12	13.30	12.97	12.44
Puerto Rico	7.04	6.87	6.23	6.43	10.25	10.66	11.76

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 2018.

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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	2017
United States	41,703,611	42,284,981	42,780,243	43,323,216	43,934,897	44,514,001	45,196,925	45,757,255
Alabama	610,594	614,205	616,063	619,053	623,845	628,930	635,122	640,302
Alaska	104,487	108,103	111,289	114,878	116,790	118,112	120,495	120,215
Arizona	858,411	866,311	873,715	884,036	899,288	915,204	936,102	955,894
Arkansas	376,989	380,059	381,987	383,272	385,052	387,896	391,929	395,464
California	5,334,655	5,415,219	5,497,370	5,599,927	5,721,427	5,831,951	5,948,409	6,023,779
Colorado	729,893	747,094	763,213	779,149	796,798	822,140	847,796	870,662
Connecticut	422,209	429,108	433,653	437,960	438,880	438,923	440,412	444,198
Delaware	111,973	114,357	116,783	119,833	123,135	125,804	127,901	129,278
District of Columbia	126,798	135,956	143,915	150,148	153,043	156,402	160,123	162,602
Florida	2,301,242	2,357,850	2,412,676	2,464,045	2,534,775	2,612,807	2,691,756	2,742,680
Georgia	1,337,881	1,349,753	1,359,654	1,364,773	1,382,174	1,401,414	1,427,101	1,453,326
Hawaii	186,463	191,298	196,132	201,114	203,781	206,358	208,011	206,560
Idaho	209,317	210,542	210,701	211,812	214,080	216,039	220,187	225,719
Illinois	1,778,747	1,786,098	1,786,921	1,791,535	1,789,389	1,780,827	1,780,180	1,776,073
Indiana	828,826	832,921	834,000	839,960	844,393	847,412	855,876	868,804
Iowa	383,873	388,167	388,589	389,308	390,844	391,269	393,337	395,643
Kansas	379,466	382,252	385,106	385,304	385,681	385,191	384,066	383,787
Kentucky	567,317	567,935	565,944	565,042	566,227	568,062	574,475	580,996
Louisiana	632,908	644,928	654,244	662,547	670,843	677,739	682,961	679,687
Maine	144,770	146,602	147,921	149,639	151,836	153,188	155,578	158,413
Maryland	767,025	785,644	801,806	815,409	823,923	829,952	834,344	837,918
Massachusetts	850,669	873,536	896,509	917,723	934,832	947,715	960,083	973,931
Michigan	1,163,707	1,167,478	1,171,449	1,180,988	1,195,315	1,214,845	1,243,080	1,269,103

State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Minnesota	717,710	728,884	736,365	743,393	747,024	746,946	749,123	757,175
Mississippi	388,257	389,650	389,224	389,337	390,807	390,459	392,597	393,592
Missouri	778,635	787,863	791,562	796,759	801,929	805,084	812,014	820,863
Montana	123,279	124,959	125,910	127,564	129,014	130,535	132,440	135,024
Nebraska	246,275	249,647	251,612	253,158	253,946	253,184	253,948	255,515
Nevada	387,072	388,723	393,249	398,741	407,512	417,927	429,439	440,358
New Hampshire	144,991	146,861	148,581	150,633	153,897	155,899	159,000	163,419
New Jersey	1,113,086	1,124,329	1,131,644	1,138,432	1,144,179	1,147,952	1,158,348	1,171,073
New Mexico	268,883	273,140	275,599	277,478	278,346	278,574	280,724	281,932
New York	2,671,215	2,726,267	2,772,084	2,820,111	2,858,198	2,889,961	2,919,380	2,936,919
North Carolina	1,251,817	1,261,325	1,267,176	1,280,234	1,296,555	1,314,918	1,343,587	1,370,247
North Dakota	91,379	94,865	99,133	104,653	109,203	114,339	114,896	114,253
Ohio	1,412,663	1,423,731	1,430,798	1,446,879	1,466,398	1,481,966	1,501,484	1,523,761
Oklahoma	508,344	515,527	521,442	528,905	534,816	540,341	545,320	545,596
Oregon	524,907	529,871	532,796	536,221	544,092	556,247	575,291	587,032
Pennsylvania	1,519,217	1,551,301	1,580,155	1,607,595	1,634,179	1,653,929	1,670,673	1,688,589
Rhode Island	127,585	129,559	132,055	135,032	138,496	141,235	143,833	145,146
South Carolina	593,901	598,968	603,862	612,311	625,207	639,988	654,536	665,507
South Dakota	106,033	108,015	109,891	111,677	112,574	112,259	112,566	113,605
Tennessee	825,841	832,343	840,490	847,921	861,393	875,924	896,668	915,996
Texas	3,630,538	3,701,503	3,774,067	3,844,745	3,933,097	4,018,958	4,099,461	4,162,040
Utah	446,390	445,954	442,319	440,844	440,916	442,135	450,300	457,423
Vermont	69,774	70,594	70,940	71,622	71,786	71,782	72,285	72,980
Virginia	1,097,205	1,120,882	1,139,479	1,154,926	1,164,913	1,170,125	1,176,162	1,185,270
Washington	937,801	957,939	973,939	991,774	1,017,108	1,046,590	1,084,063	1,117,379
West Virginia	220,985	220,794	219,827	218,300	217,540	216,935	217,330	216,070



State Indicators

State	2010	2011	2012	2013	2014	2015	2016	2017
Wisconsin	723,361	729,351	730,344	730,490	729,722	725,717	726,473	731,360
Wyoming	77,995	79,166	80,898	81,613	82,124	82,402	81,662	79,514
Puerto Rico	490,252	477,554	465,162	454,413	443,575	433,510	423,998	414,583

Science and Engineering Indicators 2018