

## Chapter 8. State Indicators

### 8-41 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 recipients of federal obligations are located. Federal obligations for R&D come from the National Center for Science and Engineering Statistics and include data reported by 11 federal agencies. 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. They include engineers and computer, mathematical, life, physical, and social scientists, and postsecondary teachers in these S&E fields. Managers, technicians, elementary and secondary schoolteachers, and medical personnel are not included. Data on individuals in S&E occupations come from a sample survey of workplaces that assigns workers to a state based on where they work. Estimates do not include self-employed persons and are developed by the Bureau of Labor Statistics (BLS) from data provided by state workforce agencies.

Estimates for states with smaller populations are generally less precise than estimates for states with larger populations. While this shows the distribution of federal R&D obligations compared to the distribution of S&E occupations, many persons in S&E occupations do not receive federal money for R&D.

#### Findings

- The federal government obligated approximately \$123 billion for R&D in 2013—\$19,969 for each person employed in an S&E occupation on the national level. This was a decrease from 2003 when the obligated amount per S&E worker was \$20,353.
- In constant dollars, federal R&D obligations decreased 1% from 2003 to 2013 (from \$116 billion to \$115 billion), while individuals employed in S&E occupations increased by 24% (from approximately 5 million to 6 million).
- Federal R&D obligations per person employed in an S&E occupation ranged across the states from \$4,433 to \$98,036 in 2013.
- The distribution of values was highly skewed in 2013, with only 10 states plus the District of Columbia above the national average. High values were reported in the District of Columbia and adjoining states and also in states where federal facilities or major defense contractors are located. States in the top quartile tended to be homes to major research laboratories, research universities, or research-intensive industries.

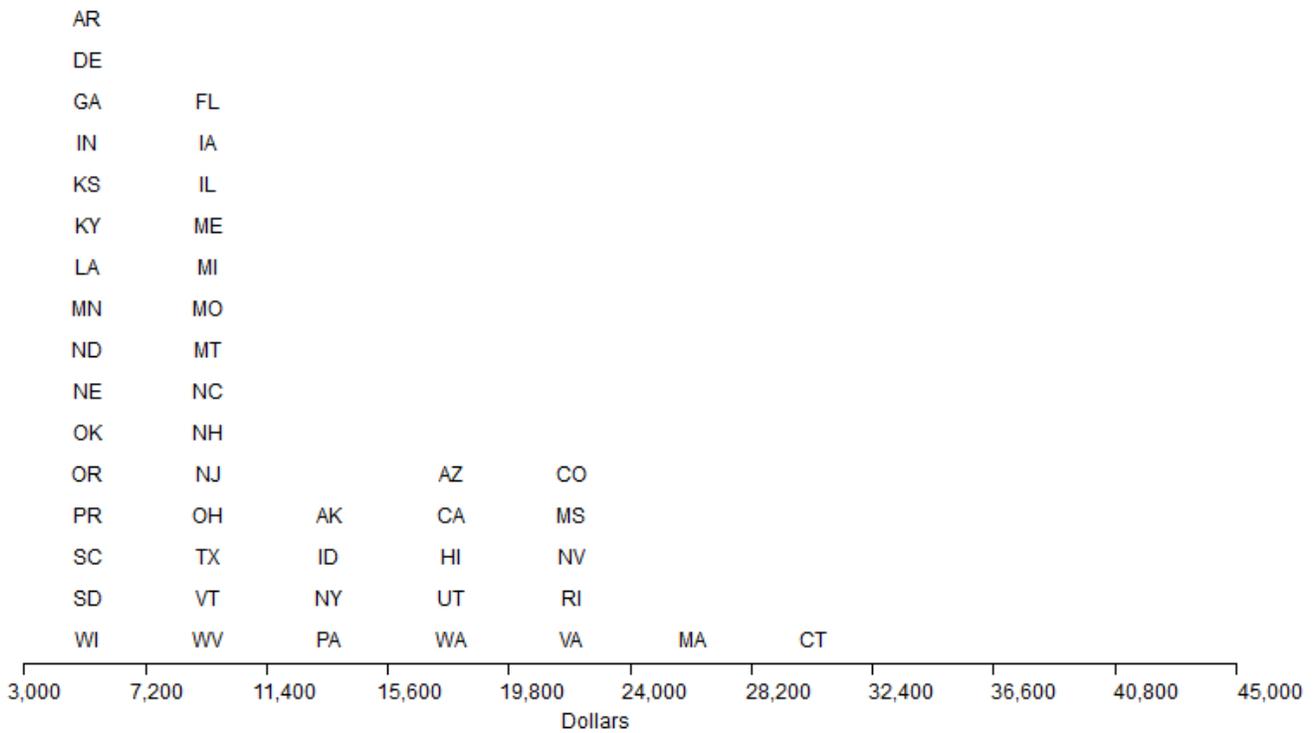


## 8-41 Federal R&D Obligations per Individual in Science and Engineering Occupation

Year: 2013

### Distribution of states across indicator values

---



Histograms do not display states with extreme values. Please consult the data tables for exact indicator values for each state.

## Chapter 8. State Indicators


**Table 8-41 Federal R&D Obligations per Individual in Science and Engineering Occupation**

State	Federal R&D obligations/individual in S&E occupation (Dollars)										
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
United States	20,353	21,162	22,228	22,006	22,297	21,594	23,968	24,836	22,108	22,739	19,969
Alabama	56,967	50,693	49,501	33,256	32,270	40,569	44,027	50,795	74,009	70,789	61,532
Alaska	37,679	42,439	44,091	19,790	22,018	16,754	16,733	15,267	12,529	9,782	12,194
Arizona	25,895	26,867	30,690	25,070	23,660	23,988	30,554	33,300	25,293	20,570	19,198
Arkansas	6,812	6,069	6,690	6,509	6,244	4,956	5,447	6,225	6,087	6,225	5,458
California	29,829	27,386	27,862	NA	35,812	25,183	33,938	35,880	28,446	21,948	19,047
Colorado	13,977	16,477	17,960	16,367	20,128	18,150	26,081	30,363	26,360	25,129	22,036
Connecticut	25,411	25,317	28,590	24,523	26,368	22,611	29,870	29,250	31,691	28,440	31,916
Delaware	5,492	4,872	5,228	5,228	5,900	6,463	10,143	6,171	5,115	4,639	5,096
District of Columbia	54,391	54,172	65,633	65,397	67,739	276,787	69,476	64,976	48,094	52,505	59,849
Florida	12,910	13,884	10,747	13,593	16,704	9,228	15,115	13,115	10,131	9,488	9,116
Georgia	14,795	13,693	15,859	12,829	12,319	9,404	NA	10,467	9,619	7,615	7,026
Hawaii	25,727	27,692	34,379	20,079	20,236	18,468	20,373	19,972	20,078	18,276	16,460
Idaho	9,834	12,518	12,155	NA	11,816	15,247	16,496	19,851	16,578	17,693	14,732
Illinois	9,159	8,583	9,601	9,006	9,526	9,665	12,414	13,349	14,079	10,898	10,260
Indiana	7,317	6,878	7,093	7,280	7,182	7,398	12,223	10,899	9,643	8,860	6,866
Iowa	13,384	13,437	12,101	12,564	14,581	13,747	14,512	20,596	14,211	12,037	10,688
Kansas	5,170	5,460	6,930	6,057	6,351	5,536	8,260	7,097	7,137	4,547	4,572
Kentucky	5,454	5,756	6,654	5,372	4,531	NA	6,233	5,891	4,654	5,944	5,691
Louisiana	10,821	10,506	10,814	8,030	10,908	9,718	9,295	7,484	13,969	6,833	5,946
Maine	11,101	14,036	18,847	14,370	23,735	9,883	10,845	9,336	10,290	13,833	9,017
Maryland	53,784	79,625	78,072	79,931	73,249	79,683	94,199	95,255	91,033	86,872	83,552
Massachusetts	29,734	31,230	34,123	34,609	36,617	31,674	41,559	42,023	35,158	27,401	24,984
Michigan	9,255	5,927	6,125	8,154	8,140	9,136	12,928	14,214	11,431	11,109	8,788



State	Federal R&D obligations/individual in S&E occupation (Dollars)										
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Minnesota	7,396	7,010	6,353	9,859	10,681	10,362	11,566	8,494	7,283	7,298	7,035
Mississippi	53,222	69,600	18,665	22,276	17,002	15,959	14,828	17,737	25,089	22,953	23,344
Missouri	16,036	33,313	45,541	13,644	11,947	10,544	12,315	11,252	11,159	10,255	10,005
Montana	11,460	16,218	15,247	11,632	49,368	NA	12,069	9,523	12,143	12,382	8,639
Nebraska	5,469	6,627	6,123	5,481	7,323	6,429	6,927	7,753	7,756	7,544	5,497
Nevada	18,761	22,708	24,314	16,198	11,926	11,451	20,254	14,151	16,852	17,842	21,772
New Hampshire	21,850	16,477	19,144	14,466	11,948	10,096	15,004	12,002	13,876	16,951	10,408
New Jersey	12,933	13,220	14,488	12,313	11,777	11,071	12,735	15,391	14,174	11,940	9,349
New Mexico	91,967	105,099	110,463	107,631	104,008	101,357	100,015	92,387	97,303	95,684	98,036
New York	16,086	15,911	18,408	17,497	16,643	14,245	19,786	NA	16,238	14,705	13,800
North Carolina	12,212	12,340	13,449	12,763	12,789	11,534	12,722	13,876	12,727	11,449	10,113
North Dakota	12,723	12,834	13,001	12,591	11,985	10,405	10,187	10,822	9,752	6,712	7,150
Ohio	16,754	15,422	16,371	14,709	18,641	12,507	21,447	20,929	17,078	NA	11,126
Oklahoma	12,855	10,762	8,642	5,340	4,924	5,332	8,090	9,722	9,822	8,921	5,055
Oregon	8,398	7,788	10,480	7,906	7,459	8,293	9,123	NA	NA	8,341	6,692
Pennsylvania	21,499	19,084	18,003	15,354	15,350	14,436	NA	NA	NA	NA	13,514
Rhode Island	30,181	33,216	49,158	34,469	34,118	35,584	37,497	36,784	31,369	27,622	23,454
South Carolina	9,315	7,559	9,765	7,023	7,792	7,841	11,532	11,777	8,140	8,792	6,102
South Dakota	5,988	7,349	7,398	7,503	5,361	6,435	6,855	6,723	5,181	5,264	4,433
Tennessee	17,754	21,025	21,479	22,212	26,941	23,226	30,179	29,295	24,457	26,455	NA
Texas	14,823	14,318	13,315	14,472	15,162	10,843	12,832	15,278	11,673	11,376	10,175
Utah	17,630	26,159	23,458	17,022	19,308	13,314	22,792	33,620	34,205	17,769	15,844
Vermont	17,614	33,341	20,564	8,259	8,493	9,788	11,844	11,227	9,500	8,032	7,969
Virginia	32,058	31,244	36,960	35,732	35,681	35,800	35,523	35,620	30,966	29,641	23,486
Washington	16,256	14,742	16,409	23,793	25,835	NA	21,116	21,027	25,063	NA	16,372
West Virginia	23,637	19,743	50,345	17,575	13,231	13,210	16,062	18,323	13,104	13,230	8,797
Wisconsin	7,056	6,889	6,965	6,563	6,756	6,500	8,783	8,017	7,254	7,127	6,158
Wyoming	7,011	6,839	5,107	4,734	4,511	5,351	7,304	4,445	4,407	8,678	NA



Federal R&D obligations/individual in S&E occupation (Dollars)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Puerto Rico	5,628	4,898	4,842	4,142	3,633	3,697	4,222	4,547	4,638	3,280	3,623

NA = not available.

NOTES: 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 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.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, Federal Funds for Research and Development (various years); Bureau of Labor Statistics, OES Survey (various years).

*Science and Engineering Indicators 2016*



State	Federal R&D obligations (\$thousands)										
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
United States	100,982,216	109,498,568	116,328,328	119,002,944	124,682,072	124,844,680	138,672,944	137,839,280	128,115,456	135,712,496	122,592,616
Alabama	3,211,827	3,035,516	3,108,183	2,198,241	2,247,589	2,782,193	3,023,301	3,476,887	5,202,092	5,159,117	4,716,401
Alaska	399,401	461,308	495,147	212,144	263,999	222,163	247,310	235,562	196,455	159,056	185,468
Arizona	2,385,404	2,643,735	2,958,775	2,459,645	2,422,351	2,449,176	3,141,545	3,425,571	2,917,048	2,405,217	2,369,256
Arkansas	145,361	146,682	164,975	161,824	177,694	145,265	171,160	181,783	178,642	183,827	167,348
California	20,169,640	19,259,424	19,964,268	26,897,630	26,987,180	19,938,652	26,988,820	27,226,904	22,768,912	18,036,282	16,180,810
Colorado	1,735,047	2,068,038	2,264,933	2,188,732	2,797,532	2,668,121	3,862,299	4,348,333	3,815,539	3,744,745	3,394,037
Connecticut	2,067,969	2,122,540	2,399,563	1,946,644	2,116,827	1,815,401	2,364,526	2,193,459	2,425,968	2,231,082	2,516,608
Delaware	95,399	89,747	94,151	112,658	130,615	144,314	225,170	129,091	114,728	108,746	112,268
District of Columbia	2,985,543	3,329,397	4,161,778	4,193,242	4,277,707	17,537,244	4,267,934	3,890,121	3,013,539	3,339,296	3,908,128
Florida	2,854,088	3,265,014	2,590,033	3,346,486	4,078,193	2,290,401	3,734,400	3,142,237	2,481,827	2,355,839	2,282,029
Georgia	2,133,046	1,906,523	2,181,847	1,750,782	1,686,209	1,386,021	1,957,570	1,519,954	1,421,812	1,133,314	1,129,956
Hawaii	413,945	488,209	600,260	380,297	379,219	347,753	387,488	389,447	403,574	382,508	347,961
Idaho	217,820	288,538	290,256	300,045	287,474	355,408	387,978	478,995	430,212	446,936	380,814
Illinois	1,934,661	1,880,072	2,127,824	2,003,465	2,145,050	2,168,530	2,745,521	2,631,274	2,878,085	2,399,463	2,327,486
Indiana	573,693	556,743	566,818	583,214	596,645	672,029	1,109,218	988,688	903,000	838,297	692,598
Iowa	499,484	538,270	487,663	548,687	662,401	634,853	683,222	909,096	695,339	613,269	560,471
Kansas	268,669	287,446	357,797	294,492	317,801	300,406	464,230	347,529	367,780	231,602	234,254
Kentucky	246,664	251,763	296,308	240,041	222,172	252,464	319,129	287,437	241,959	308,087	306,846
Louisiana	453,420	446,722	443,708	322,644	419,401	406,131	405,553	330,803	597,294	313,774	277,976
Maine	166,733	210,258	292,125	229,196	378,810	168,009	194,231	163,103	179,969	247,753	169,887
Maryland	8,027,300	12,608,595	12,500,835	12,746,621	11,905,814	13,312,685	15,970,508	15,879,006	15,750,593	15,597,818	15,605,883
Massachusetts	5,491,660	5,963,595	6,591,926	6,875,787	7,528,907	6,883,096	9,047,013	8,747,479	7,758,388	6,279,278	5,690,763
Michigan	1,693,104	1,117,762	1,177,007	1,700,258	1,726,084	1,866,491	2,427,422	2,509,681	2,153,449	2,206,422	1,826,143
Minnesota	866,231	831,259	768,269	1,241,556	1,386,789	1,393,037	1,550,573	1,062,556	949,293	961,092	939,742
Mississippi	1,181,001	1,598,715	438,243	554,898	433,902	435,207	384,647	421,613	588,083	542,610	567,723
Missouri	1,349,450	3,058,821	4,201,656	1,315,557	1,220,627	1,111,285	1,284,600	1,151,046	1,193,266	1,124,477	1,057,857
Montana	131,213	188,774	182,053	151,336	653,627	159,461	171,494	139,222	181,657	190,191	134,505



Federal R&D obligations (\$thousands)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Nebraska	167,955	210,458	193,069	178,121	230,075	204,579	220,221	239,814	262,148	261,912	200,523
Nevada	418,931	554,983	593,264	436,217	321,050	312,624	558,210	379,814	478,099	481,734	584,582
New Hampshire	511,948	422,144	513,830	400,408	339,923	294,312	458,369	350,471	406,012	490,721	296,213
New Jersey	2,087,600	2,273,723	2,524,843	2,172,700	2,191,960	2,192,726	2,492,168	2,852,962	2,582,709	2,166,953	1,726,856
New Mexico	3,090,089	3,363,175	3,593,366	3,315,034	3,478,018	3,502,888	3,695,553	3,337,955	3,456,208	3,378,591	3,421,466
New York	4,382,460	4,505,321	5,320,079	5,368,152	5,367,562	4,651,187	6,242,013	5,602,222	5,042,120	4,727,247	4,605,210
North Carolina	1,617,325	1,683,581	1,806,115	1,771,359	1,828,443	1,772,567	2,021,757	2,151,161	2,060,306	1,922,260	1,759,196
North Dakota	107,257	108,573	117,921	117,851	115,779	98,326	101,155	119,582	117,703	88,065	89,515
Ohio	2,967,071	2,794,181	2,961,450	2,723,931	3,660,876	2,580,353	4,459,527	4,098,787	3,554,656	3,436,331	2,425,734
Oklahoma	570,249	498,478	400,746	271,137	253,227	260,753	369,962	429,597	462,536	449,813	262,352
Oregon	514,212	504,810	650,069	510,101	506,417	581,074	635,230	675,292	711,081	632,076	528,961
Pennsylvania	3,989,278	3,731,084	3,677,377	3,299,694	3,359,930	3,279,378	4,297,552	4,963,404	4,512,982	3,724,886	3,295,421
Rhode Island	565,592	642,064	888,779	622,502	627,776	643,721	679,453	669,846	610,133	557,413	486,437
South Carolina	454,018	384,307	492,735	373,812	421,688	453,003	661,614	662,206	496,684	555,367	397,477
South Dakota	54,788	70,036	69,982	75,926	61,925	76,379	79,313	74,962	61,087	63,168	56,607
Tennessee	1,130,563	1,381,987	1,425,989	1,489,072	1,907,931	1,689,925	2,081,442	2,104,843	1,898,595	2,111,931	2,118,645
Texas	5,414,373	5,506,721	5,187,008	5,914,690	6,692,848	5,029,588	6,031,095	6,896,125	5,475,367	5,619,673	5,234,156
Utah	803,382	1,183,694	1,058,179	845,844	991,251	699,929	1,168,540	1,708,887	1,756,403	972,325	918,647
Vermont	201,149	417,091	262,601	105,544	108,366	120,985	151,369	142,251	124,444	103,372	102,954
Virginia	6,709,197	7,298,269	8,746,472	8,994,337	9,088,208	9,282,197	9,381,331	9,111,678	8,287,063	8,129,999	6,487,535
Washington	2,442,177	2,311,260	2,641,154	4,087,134	4,751,106	4,339,544	4,156,709	3,915,467	4,931,381	2,757,414	3,433,474
West Virginia	383,400	315,693	807,540	301,416	219,100	224,575	262,617	312,779	239,807	263,276	171,449
Wisconsin	658,448	645,875	651,821	635,675	671,413	660,915	885,729	795,573	742,243	734,288	654,033
Wyoming	42,979	47,596	37,538	36,169	36,583	47,358	65,152	36,720	37,193	75,589	41,207
Puerto Rico	112,225	100,904	101,433	98,790	85,850	84,929	96,101	94,795	97,351	71,336	82,563



Federal R&D obligations (\$thousands)

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
-------	------	------	------	------	------	------	------	------	------	------	------

NA = not available.

NOTES: 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 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.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, Federal Funds for Research and Development (various years); Bureau of Labor Statistics, OES Survey (various years).

*Science and Engineering Indicators 2016*

Individuals in S&E occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
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	6,139,220
Alabama	56,380	59,880	62,790	66,100	69,650	68,580	68,670	68,450	70,290	72,880	76,650
Alaska	10,600	10,870	11,230	10,720	11,990	13,260	14,780	15,430	15,680	16,260	15,210
Arizona	92,120	98,400	96,410	98,110	102,380	102,100	102,820	102,870	115,330	116,930	123,410
Arkansas	21,340	24,170	24,660	24,860	28,460	29,310	31,420	29,200	29,350	29,530	30,660
California	676,180	703,250	716,530	NA	753,570	791,750	795,240	758,830	800,430	821,780	849,510
Colorado	124,140	125,510	126,110	133,730	138,990	147,000	148,090	143,210	144,750	149,020	154,020
Connecticut	81,380	83,840	83,930	79,380	80,280	80,290	79,160	74,990	76,550	78,450	78,850
Delaware	17,370	18,420	18,010	21,550	22,140	22,330	22,200	20,920	22,430	23,440	22,030
District of Columbia	54,890	61,460	63,410	64,120	63,150	63,360	61,430	59,870	62,660	63,600	65,300
Florida	221,070	235,170	241,000	246,190	244,140	248,200	247,070	239,600	244,970	248,300	250,330
Georgia	144,170	139,230	137,580	136,470	136,880	147,380	NA	145,220	147,820	148,830	160,820
Hawaii	16,090	17,630	17,460	18,940	18,740	18,830	19,020	19,500	20,100	20,930	21,140
Idaho	22,150	23,050	23,880	NA	24,330	23,310	23,520	24,130	25,950	25,260	25,850
Illinois	211,230	219,040	221,630	222,470	225,180	224,370	221,170	197,120	204,420	220,170	226,850
Indiana	78,410	80,950	79,910	80,110	83,080	90,840	90,750	90,710	93,640	94,620	100,870
Iowa	37,320	40,060	40,300	43,670	45,430	46,180	47,080	44,140	48,930	50,950	52,440
Kansas	51,970	52,650	51,630	48,620	50,040	54,260	56,200	48,970	51,530	50,930	51,240
Kentucky	45,230	43,740	44,530	44,680	49,030	NA	51,200	48,790	51,990	51,830	53,920
Louisiana	41,900	42,520	41,030	40,180	38,450	41,790	43,630	44,200	42,760	45,920	46,750
Maine	15,020	14,980	15,500	15,950	15,960	17,000	17,910	17,470	17,490	17,910	18,840
Maryland	149,250	158,350	160,120	159,470	162,540	167,070	169,540	166,700	173,020	179,550	186,780
Massachusetts	184,690	190,960	193,180	198,670	205,610	217,310	217,690	208,160	220,670	229,160	227,780
Michigan	182,940	188,580	192,150	208,520	212,040	204,290	187,760	176,570	188,380	198,610	207,800
Minnesota	117,120	118,590	120,930	125,930	129,840	134,440	134,060	125,100	130,340	131,690	133,580
Mississippi	22,190	22,970	23,480	24,910	25,520	27,270	25,940	23,770	23,440	23,640	24,320
Missouri	84,150	91,820	92,260	96,420	102,170	105,390	104,310	102,300	106,930	109,650	105,730
Montana	11,450	11,640	11,940	13,010	13,240	NA	14,210	14,620	14,960	15,360	15,570



Individuals in S&E occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Nebraska	30,710	31,760	31,530	32,500	31,420	31,820	31,790	30,930	33,800	34,720	36,480
Nevada	22,330	24,440	24,400	26,930	26,920	27,300	27,560	26,840	28,370	27,000	26,850
New Hampshire	23,430	25,620	26,840	27,680	28,450	29,150	30,550	29,200	29,260	28,950	28,460
New Jersey	161,420	171,990	174,270	176,460	186,120	198,060	195,690	185,360	182,210	181,480	184,720
New Mexico	33,600	32,000	32,530	30,800	33,440	34,560	36,950	36,130	35,520	35,310	34,900
New York	272,440	283,150	289,010	306,810	322,520	326,510	315,480	NA	310,510	321,480	333,710
North Carolina	132,440	136,430	134,290	138,790	142,970	153,680	158,920	155,030	161,880	167,900	173,960
North Dakota	8,430	8,460	9,070	9,360	9,660	9,450	9,930	11,050	12,070	13,120	12,520
Ohio	177,100	181,180	180,900	185,190	196,390	206,320	207,930	195,840	208,140	NA	218,030
Oklahoma	44,360	46,320	46,370	50,770	51,430	48,900	45,730	44,190	47,090	50,420	51,900
Oregon	61,230	64,820	62,030	64,520	67,890	70,070	69,630	NA	NA	75,780	79,040
Pennsylvania	185,560	195,510	204,270	214,910	218,890	227,170	NA	NA	NA	NA	243,850
Rhode Island	18,740	19,330	18,080	18,060	18,400	18,090	18,120	18,210	19,450	20,180	20,740
South Carolina	48,740	50,840	50,460	53,230	54,120	57,770	57,370	56,230	61,020	63,170	65,140
South Dakota	9,150	9,530	9,460	10,120	11,550	11,870	11,570	11,150	11,790	12,000	12,770
Tennessee	63,680	65,730	66,390	67,040	70,820	72,760	68,970	71,850	77,630	79,830	NA
Texas	365,270	384,600	389,550	408,710	441,410	463,850	470,010	451,390	469,080	493,980	514,400
Utah	45,570	45,250	45,110	49,690	51,340	52,570	51,270	50,830	51,350	54,720	57,980
Vermont	11,420	12,510	12,770	12,780	12,760	12,360	12,780	12,670	13,100	12,870	12,920
Virginia	209,280	233,590	236,650	251,720	254,710	259,280	264,090	255,800	267,620	274,280	276,230
Washington	150,230	156,780	160,960	171,780	183,900	NA	196,850	186,210	196,760	NA	209,710
West Virginia	16,220	15,990	16,040	17,150	16,560	17,000	16,350	17,070	18,300	19,900	19,490
Wisconsin	93,320	93,760	93,590	96,860	99,380	101,680	100,850	99,240	102,320	103,030	106,210
Wyoming	6,130	6,960	7,350	7,640	8,110	8,850	8,920	8,260	8,440	8,710	NA
Puerto Rico	19,940	20,600	20,950	23,850	23,630	22,970	22,760	20,850	20,990	21,750	22,790



## Individuals in S&amp;E occupations

State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
-------	------	------	------	------	------	------	------	------	------	------	------

NA = not available.

NOTES: 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 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.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, Federal Funds for Research and Development (various years); Bureau of Labor Statistics, OES Survey (various years).

*Science and Engineering Indicators 2016*