

TABLE 97

Federal obligations for research and development, by state or location: FYs 2013–21

(Dollars in millions)

State or location	2013	2014	2015	2016	2017	2018	2019	2020	2021
All locations	122,985	127,927	125,846	113,002	115,508	125,737	138,170	162,959	189,398
Alabama	4,716	4,484	4,538	4,354	8,663	5,174	5,414	3,070	3,967
Alaska	185	137	208	212	280	300	334	279	323
Arizona	2,369	1,606	1,644	1,549	1,199	1,737	2,001	1,939	1,663
Arkansas	167	191	106	308	170	206	179	501	300
California	16,181	15,799	15,281	15,756	15,887	17,237	19,159	22,464	22,618
Colorado	3,394	3,611	3,506	4,183	3,396	4,917	5,268	5,024	6,230
Connecticut	2,517	2,287	2,293	2,366	2,349	2,568	2,673	2,566	2,597
Delaware	112	130	108	142	169	162	163	222	307
District of Columbia	3,908	3,980	4,222	4,204	4,867	6,158	6,228	16,315	39,039
Florida	2,282	2,448	2,933	2,782	2,880	3,179	3,892	4,061	4,095
Georgia	1,130	1,253	1,182	1,301	1,285	1,350	1,504	1,913	1,654
Hawaii	348	326	305	284	275	441	412	394	486
Idaho	381	598	533	568	679	824	920	840	672
Illinois	2,327	2,369	2,483	3,922	2,553	2,911	2,998	3,209	3,533
Indiana	693	771	678	719	690	781	894	1,104	1,081
Iowa	560	512	567	496	520	525	518	702	686
Kansas	234	187	194	188	212	233	283	352	414
Kentucky	307	297	297	273	289	303	313	354	542
Louisiana	278	285	254	279	397	321	432	437	457
Maine	170	131	138	137	158	188	189	185	249
Maryland	15,606	16,890	16,751	16,640	15,417	17,779	16,992	22,736	17,565
Massachusetts	5,691	6,269	6,055	5,533	5,238	6,036	6,838	8,850	9,496
Michigan	1,826	1,853	1,799	1,796	1,491	1,630	2,054	1,925	2,070
Minnesota	940	947	817	859	986	1,031	1,029	1,448	1,145
Mississippi	568	590	489	448	449	820	505	472	455
Missouri	1,056	1,039	1,296	1,259	1,604	1,492	2,375	2,080	2,059
Montana	135	171	152	170	151	195	191	213	287
Nebraska	201	234	216	205	211	211	244	255	303
Nevada	585	510	394	286	338	400	375	306	552
New Hampshire	296	336	342	374	351	472	669	483	523
New Jersey	1,727	1,968	1,632	1,677	1,963	2,367	2,834	2,885	3,398
New Mexico	3,421	3,714	3,543	3,662	3,383	3,630	3,756	3,502	3,881
New York	4,605	4,581	4,567	4,744	4,955	5,366	6,162	8,148	6,831
North Carolina	1,759	1,881	1,892	1,906	2,005	2,270	2,417	3,271	3,620
North Dakota	90	80	82	104	75	111	73	140	168
Ohio	2,426	2,454	2,639	2,497	2,550	4,207	5,188	5,216	3,856
Oklahoma	262	317	450	349	368	481	506	537	1,505
Oregon	529	602	558	544	573	627	697	814	1,070
Pennsylvania	3,295	3,695	3,710	3,981	3,788	4,148	4,093	5,214	4,545
Rhode Island	486	555	519	627	615	662	723	876	866
South Carolina	397	476	447	461	505	561	646	822	1,434
South Dakota	57	69	73	69	77	81	89	131	132
Tennessee	2,119	2,023	2,313	2,479	2,491	2,564	3,578	3,151	3,462
Texas	5,234	4,678	5,574	5,296	5,319	4,677	5,067	6,135	6,131
Utah	919	1,222	1,144	938	1,058	1,110	1,301	1,141	2,440
Vermont	103	116	82	82	81	97	120	129	244
Virginia	6,488	7,652	7,487	7,384	6,311	7,187	8,029	9,650	9,741
Washington	3,433	3,565	2,362	2,084	2,624	2,746	3,195	3,280	3,736
West Virginia	171	208	239	456	141	281	142	150	199
Wisconsin	654	701	701	723	730	759	840	908	989

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(Dollars in millions)

State or location	2013	2014	2015	2016	2017	2018	2019	2020	2021
Wyoming	41	46	53	44	46	49	68	87	197
Outlying areas	229	318	347	331	104	496	521	195	229
Puerto Rico	83	71	66	72	68	75	82	88	120
Other areas ^a	146	247	281	259	36	421	439	107	109
Offices abroad ^b	166	38	28	4	2	12	4	48	179
Undistributed ^c	15,211	16,728	15,624	969	2,594	1,666	3,073	1,829	5,177

^a Includes American Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

^b Includes R&D performed or administered in foreign countries by the U.S. government.

^c Undistributed totals include Department of Defense (DOD) obligations for which the location of performance is not reported. It includes DOD obligations for businesses (formerly, "industry") R&D that were included in individual state totals prior to FY 2012 and obligations for other performers that were not reported prior to FY 2011. The undistributed total for FY 2019 also include Department of Health and Human Services' Biomedical Advanced Research and Development Authority obligations for which the location of performance could not be reported.

Note(s):

Because of rounding, detail may not add to total. Through volume 70 (FYs 2020–21), 11 agencies were required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented more than 97% of total federal R&D obligations in FY 2020. As of volume 71, all agencies report data for this section of the survey; therefore, the data are not directly comparable with totals reported in previous years. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to businesses reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. Beginning with FY 2016, the totals reported for development obligations represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the DOD Budget Activity 7 (Operational Systems Development) obligations. Those funds, previously included in DOD's development obligation totals, support the development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. FYs 2020 and 2021 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.