

TABLE 14

Domestic R&D paid for by the company and others and performed by the company, by source of funds and core-based statistical area: 2021

(Millions of U.S. dollars)

Core-based statistical area (CBSA)	CBSA code	Total	Paid for by the company	Paid for by others
All locations		602,499	527,804	74,695
San Jose-Sunnyvale-Santa Clara, CA	41940	90,418	86,522	3,896
San Francisco-Oakland-Hayward, CA	41860	71,969	70,114	1,855
Seattle-Tacoma-Bellevue, WA	42660	47,360	46,029	1,331
New York-Newark-Jersey City, NY-NJ-PA	35620	40,089	35,657	4,432
Boston-Cambridge-Newton, MA-NH	14460	36,881	31,435	5,446
San Diego-Carlsbad, CA	41740	19,403 i	16,898 i	2,505 i
Los Angeles-Long Beach-Anaheim, CA	31080	18,844	15,646	3,198
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	37980	17,302	13,187	4,115 i
Detroit-Warren-Dearborn, MI	19820	17,103	15,133	1,970
Chicago-Naperville-Elgin, IL-IN-WI	16980	13,765	12,883	882 i
Portland-Vancouver-Hillsboro, OR-WA	38900	11,023	10,703	320
Dallas-Fort Worth-Arlington, TX	19100	9,985 i	7,951	2,033 i
Washington-Arlington-Alexandria, DC-VA-MD-WV	47900	9,680	6,772	2,908
Austin-Round Rock, TX	12420	9,350 i	8,860 i	491 i
Minneapolis-St. Paul-Bloomington, MN-WI	33460	7,641	7,120	521
Durham-Chapel Hill, NC	20500	7,508 i	3,213	4,296 i
Phoenix-Mesa-Scottsdale, AZ	38060	7,024 i	5,876 i	1,148
Indianapolis-Carmel-Anderson, IN	26900	6,978 i	5,529 i	1,449
Houston-The Woodlands-Sugar Land, TX	26420	5,638	4,661	976 i
St. Louis, MO-IL	41180	5,610	3,499	2,112 i
Atlanta-Sandy Springs-Roswell, GA	12060	5,425	4,389	1,036 i
Trenton, NJ	45940	5,178	3,431	1,747
Cincinnati, OH-KY-IN	17140	4,638	2,956	1,683 i
Norwich-New London, CT	35980	3,953	2,449 - 3,954	0 - 1,504
Denver-Aurora-Lakewood, CO	19740	3,927	3,638	288 i
Raleigh, NC	39580	3,635	2,697	938 i
Miami-Fort Lauderdale-West Palm Beach, FL	33100	3,058	2,646	412 i
Kansas City, MO-KS	28140	3,037	2,271	766 i
Sacramento-Roseville-Arden-Arcade, CA	40900	2,875 i	2,741 i	134
Baltimore-Columbia-Towson, MD	12580	2,854	2,408	445
Madison, WI	31540	2,583	1,760	823 i
Oxnard-Thousand Oaks-Ventura, CA	37100	2,518	2,108	410 i
Tampa-St. Petersburg-Clearwater, FL	45300	2,446	1,618	828
Pittsburgh, PA	38300	2,403	2,226	177 i
Manchester-Nashua, NH	31700	2,324	713	1,612
Columbus, OH	18140	2,320	1,189 i	1,131
Salt Lake City, UT	41620	2,177	2,123	54 i
Milwaukee-Waukesha-West Allis, WI	33340	2,160	2,078	82
Providence-Warwick, RI-MA	39300	2,158	1,989	170 i
Riverside-San Bernardino-Ontario, CA	40140	2,008 i	1,891 i	117 i
Tucson, AZ	46060	1,945 i	670 i	1,275 i
Boulder, CO	14500	1,925 i	1,828 i	96
Boise City, ID	14260	1,898	1,863	35
Kalamazoo-Portage, MI	28020	1,867	1,445	422
Hartford-West Hartford-East Hartford, CT	25540	1,865	1,255	610
Charlotte-Concord-Gastonia, NC-SC	16740	1,811	1,661	149
Cleveland-Elyria, OH	17460	1,700	1,559	142 i
Bridgeport-Stamford-Norwalk, CT	14860	1,607	1,556	51
Albuquerque, NM	10740	1,564	1,243	321 i

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Huntsville, AL	26620	1,553	365	1,189
Worcester, MA-CT	49340	1,553	1,317	236
Orlando-Kissimmee-Sanford, FL	36740	1,550 i	1,241 i	309 i
Nashville-Davidson-Murfreesboro-Franklin, TN	34980	1,311 i	578 i	732 i
Albany-Schenectady-Troy, NY	10580	1,215	780	435
Provo-Orem, UT	39340	1,209	1,119	91
Brownsville-Harlingen, TX	15180	1,126	1,125	1 i
Colorado Springs, CO	17820	1,003 i	916 i	88
Palm Bay-Melbourne-Titusville, FL	37340	993 i	594 i	399 i
Des Moines-West Des Moines, IA	19780	980	932	48
Columbus, IN	18020	968	899	69
Santa Maria-Santa Barbara, CA	42200	948 i	773 i	175 i
Corning, NY	18500	930	929	1 i
Rochester, NY	40380	928 i	854 i	74
Peoria, IL	37900	895 i	878 i	18 i
Grand Rapids-Wyoming, MI	24340	879	647	232
Cedar Rapids, IA	16300	864 i	0 - 865 i	0 - 865 i
New Haven-Milford, CT	35300	863 i	0 - 864 i	0 - 864
Richmond, VA	40060	822 i	742 i	80
Akron, OH	10420	822	724	98 i
Greensboro-High Point, NC	24660	813 i	798 i	14 i
San Antonio-New Braunfels, TX	41700	812 i	628 i	184 i
Omaha-Council Bluffs, NE-IA	36540	812	767	45
Buffalo-Cheektowaga-Niagara Falls, NY	15380	752 i	512	240 i
Bloomington, IL	14010	741	607	134
Allentown-Bethlehem-Easton, PA-NJ	10900	736	709	28 i
Ann Arbor, MI	11460	684	458	226
Jacksonville, FL	27260	678	629	49 i
Santa Rosa, CA	42220	647 i	636 i	11 i
Fort Collins, CO	22660	632 i	593 i	39
Memphis, TN-MS-AR	32820	618	535	83
Dayton, OH	19380	615	307 i	308
Las Vegas-Henderson-Paradise, NV	29820	556 i	547 i	9 e
Louisville-Jefferson County, KY-IN	31140	534	277	257
Wichita, KS	48620	530	504	26
Virginia Beach-Norfolk-Newport News, VA-NC	47260	474	314	160
Oshkosh-Neenah, WI	36780	454	452	3
Charleston-North Charleston, SC	16700	449	252	197
Syracuse, NY	45060	446	361	86 i
Portland-South Portland, ME	38860	438	386	52
Davenport-Moline-Rock Island, IA-IL	19340	395	390	5
Birmingham-Hoover, AL	13820	389 i	357 i	32 i
Reno, NV	39900	389	130 i	259
Pueblo, CO	39380	383 i	22 i	360 i
Oklahoma City, OK	36420	381	330	50 i
Winston-Salem, NC	49180	369 i	305	65 i
Corpus Christi, TX	18580	367	365	2 e
Bakersfield, CA	12540	350	309	41 i
Warsaw, IN	47700	349	348	2
Ogden-Clearfield, UT	36260	348 i	274 i	74

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Santa Cruz-Watsonville, CA	42100	346	0 - 347	0 - 347 i
All other CBSAs		29,262	25,647	3,615 i
Locations outside a CBSA		3,129	2,729	400 i
Undistributed ^a		780	712	67

e = more than 50% of value is modeled—see "Technical Notes"; i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

^a Includes data reported that were not allocated to a specific location by multi-establishment companies. For single-establishment companies, data reported were allocated to the location in the address used to mail the survey form.

Note(s):

Detail may not add to total because of rounding. Statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D and are not comparable with estimates published for years prior to 2018. For a given estimate in this table, if the conditions are satisfied for both the "i" and "e" flags, the e flag is assigned because the imputation rate may be found in the corresponding table of imputation rates (available from the Survey Manager upon request). A CBSA is a U.S. geographic area that consists of one or more counties (or equivalents) anchored by an urban center of at least 10,000 people plus adjacent counties that are socioeconomically tied to the urban center by commuting. CBSAs are defined by the Office of Management and Budget in the Executive Office of the President. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2021.