

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: 2019**

(Millions of U.S. dollars)

Core-based statistical area (CBSA)	CBSA code	Total	Paid for by the company	Paid for by others
All locations		492,956	428,968	63,989
San Jose-Sunnyvale-Santa Clara, CA	41940	75,055	70,610	4,445
San Francisco-Oakland-Berkeley, CA	41860	58,258	56,280	1,977
Seattle-Tacoma-Bellevue, WA	42660	36,265	34,861	1,404
New York-Newark-Jersey City, NY-NJ-PA	35620	32,146	28,458	3,688 i
Boston-Cambridge-Newton, MA-NH	14460	28,368	23,938	4,430
Los Angeles-Long Beach-Anaheim, CA	31080	17,180 i	13,837 i	3,343 i
Detroit-Warren-Dearborn, MI	19820	16,206	14,852	1,354
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	37980	13,995	11,676	2,318
San Diego-Chula Vista-Carlsbad, CA	41740	13,410	11,183	2,227 i
Chicago-Naperville-Elgin, IL-IN-WI	16980	11,718	11,069	648
Austin-Round Rock-Georgetown, TX	12420	8,966 i	8,004 i	962
Dallas-Fort Worth-Arlington, TX	19100	7,835 i	6,566	1,269 i
Portland-Vancouver-Hillsboro, OR-WA	38900	7,517	7,325	192
Minneapolis-St. Paul-Bloomington, MN-WI	33460	7,276	6,794	482
Washington-Arlington-Alexandria, DC-VA-MD-WV	47900	7,272	5,016	2,256
Indianapolis-Carmel-Anderson, IN	26900	5,513	4,628	885
Durham-Chapel Hill, NC	20500	5,378 i	3,560	1,818 i
Houston-The Woodlands-Sugar Land, TX	26420	5,370	4,788	582
St. Louis, MO-IL	41180	5,358	3,213	2,145 i
Phoenix-Mesa-Chandler, AZ	38060	4,333 i	3,534 i	798 i
Cincinnati, OH-KY-IN	17140	4,091	2,801	1,290 i
Atlanta-Sandy Springs-Alpharetta, GA	12060	3,934	3,109	826 i
Norwich-New London, CT	35980	3,877	2,960	917
Raleigh-Cary, NC	39580	3,677	2,208	1,469 i
Trenton-Princeton, NJ	45940	2,699	1,271	1,427
Kansas City, MO-KS	28140	2,617	1,744	874 i
Oxnard-Thousand Oaks-Ventura, CA	37100	2,616	2,222	394 i
Denver-Aurora-Lakewood, CO	19740	2,600	2,413	187
Boise City, ID	14260	2,485	2,417	69
Milwaukee-Waukesha, WI	33340	2,347	2,271	76
Tampa-St. Petersburg-Clearwater, FL	45300	2,241	1,601	640 i
Baltimore-Columbia-Towson, MD	12580	2,210	1,614	596
Madison, WI	31540	2,158	1,573	585 i
Miami-Fort Lauderdale-Pompano Beach, FL	33100	2,131	1,871	259 i
Columbus, OH	18140	2,127 i	882	1,245 i
Sacramento-Roseville-Folsom, CA	40900	2,110 i	1,935 i	175
Manchester-Nashua, NH	31700	1,903	504	1,399
Boulder, CO	14500	1,645	1,513	131
Cleveland-Elyria, OH	17460	1,638	1,409	229
Providence-Warwick, RI-MA	39300	1,626 i	1,560 i	66
Tucson, AZ	46060	1,624 i	640 i	984 i
Bridgeport-Stamford-Norwalk, CT	14860	1,619	1,383	236
Pittsburgh, PA	38300	1,606	1,497	109 i
Worcester, MA-CT	49340	1,579	1,126	453
Huntsville, AL	26620	1,505	354	1,151
Salt Lake City, UT	41620	1,288	1,097	191 i
Charlotte-Concord-Gastonia, NC-SC	16740	1,284 i	1,147 i	137 i

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Kalamazoo-Portage, MI	28020	1,164	849	315
Cedar Rapids, IA	16300	1,113 i	367 i	746 i
New Haven-Milford, CT	35300	1,102	1,077	25
Albany-Schenectady-Troy, NY	10580	1,036	777	259 i
Provo-Orem, UT	39340	1,033	941	92
Orlando-Kissimmee-Sanford, FL	36740	1,031 i	772 i	259 i
Rochester, NY	40380	965	874	91 i
Akron, OH	10420	892	683	209 i
Corning, NY	18500	885 i	882 i	3 i
Grand Rapids-Kentwood, MI	24340	883	616	266
Peoria, IL	37900	868 i	856 i	12 i
Riverside-San Bernardino-Ontario, CA	40140	790	716	74 i
Richmond, VA	40060	788 i	638 i	151 i
Lancaster, PA	29540	759 i	699 i	61 i
Santa Maria-Santa Barbara, CA	42200	757 i	522	234 i
Greensboro-High Point, NC	24660	752 i	710 i	41
Columbus, IN	18020	704	621	84
Allentown-Bethlehem-Easton, PA-NJ	10900	703	660	43
Fort Collins, CO	22660	693 i	654 i	39
Hartford-East Hartford-Middletown, CT	25540	692	630	63
Las Vegas-Henderson-Paradise, NV	29820	657	619	38
Wilmington, NC	48900	654 i	183 i	471 i
Des Moines-West Des Moines, IA	19780	628 i	610 i	17 i
Cheyenne, WY	16940	622 i	622 i	1 e
Ann Arbor, MI	11460	614	368	245
Omaha-Council Bluffs, NE-IA	36540	605	559	45 i
Louisville-Jefferson County, KY-IN	31140	593	331	262
Colorado Springs, CO	17820	583 i	507 i	76
Palm Bay-Melbourne-Titusville, FL	37340	576 i	319	257 i
Buffalo-Cheektowaga, NY	15380	574 i	385	189 i
San Antonio-New Braunfels, TX	41700	568 i	480 i	89
Santa Rosa-Petaluma, CA	42220	564	547	16 i
Dayton-Kettering, OH	19430	541	286	255
Wichita, KS	48620	537	517	19
Charleston-North Charleston, SC	16700	534	390	143
Albuquerque, NM	10740	531	301	230
Jacksonville, FL	27260	513 i	473 i	41 i
Bloomington, IL	14010	510	491	19 i
Syracuse, NY	45060	480 i	411 i	69 i
Virginia Beach-Norfolk-Newport News, VA-NC	47260	464	313	151
Nashville-Davidson-Murfreesboro-Franklin, TN	34980	460 i	319	142 i
Pueblo, CO	39380	436	14 i	422
Davenport-Moline-Rock Island, IA-IL	19340	428	425	3 e
Memphis, TN-MS-AR	32820	421 i	396	25 i
Winston-Salem, NC	49180	419 i	405 i	14
Oshkosh-Neenah, WI	36780	384	381	3 i
Ogden-Clearfield, UT	36260	378	282	96
Niles, MI	35660	370	363	7

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Greenville-Anderson, SC	24860	367	343	25 i
Waterloo-Cedar Falls, IA	47940	361	361	1 e
Portland-South Portland, ME	38860	356 i	315 i	41 i
Oklahoma City, OK	36420	347	286	61 i
Salisbury, MD-DE	41540	337 i	324 i	13 i
All other CBSAs		26,625	22,937	3,688
Locations outside a CBSA		2,620	2,327	293 i
Undistributed <sup>a</sup>		1,034	916	117

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

<sup>a</sup> 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. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. This change has affected the comparability of these estimates 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. 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.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2019.