

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: 2018**

(Millions of U.S. dollars)

Core-based statistical area	CBSA code	Total	Paid for by the company		Paid for by others
All locations		441,036		377,806	63,230
San Jose-Sunnyvale-Santa Clara, CA	41940	67,394		62,670	4,725
San Francisco-Oakland-Berkeley, CA	41860	40,364		39,010	1,355
New York-Newark-Jersey City, NY-NJ-PA	35620	29,782		26,436	3,346
Seattle-Tacoma-Bellevue, WA	42660	29,321		28,605	716
Boston-Cambridge-Newton, MA-NH	14460	25,458		20,888	4,570
Detroit-Warren-Dearborn, MI	19820	17,943		16,753	1,190
Los Angeles-Long Beach-Anaheim, CA	31080	16,565		11,380	5,186
San Diego-Chula Vista-Carlsbad, CA	41740	12,445	i	10,400	2,046
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	37980	11,780		9,483	2,297
Chicago-Naperville-Elgin, IL-IN-WI	16980	10,678		9,867	812
Portland-Vancouver-Hillsboro, OR-WA	38900	8,451		8,226	226
Austin-Round Rock-Georgetown, TX	12420	7,812	i	7,066	745
Dallas-Fort Worth-Arlington, TX	19100	7,180		5,926	1,253
Washington-Arlington-Alexandria, DC-VA-MD-WV	47900	7,092		4,799	2,293
Minneapolis-St. Paul-Bloomington, MN-WI	33460	6,757		6,365	391
St. Louis, MO-IL	41180	5,918		2,823	3,095
Indianapolis-Carmel-Anderson, IN	26900	4,750		3,937	814
Houston-The Woodlands-Sugar Land, TX	26420	4,540		4,023	516
Phoenix-Mesa-Chandler, AZ	38060	4,437	i	3,606	830
Durham-Chapel Hill, NC	20500	4,430		2,498	1,933
Atlanta-Sandy Springs-Alpharetta, GA	12060	4,172		3,265	906
Norwich-New London, CT	35980	3,914		2,154 - 3,915	0 - 1,760
Cincinnati, OH-KY-IN	17140	3,643		2,764	879
Raleigh-Cary, NC	39580	3,465		2,131	1,334
Baltimore-Columbia-Towson, MD	12580	2,674		1,929	745
Kansas City, MO-KS	28140	2,530		1,578	953
Sacramento-Roseville-Folsom, CA	40900	2,444	i	1,733	711
Boise City, ID	14260	2,393		2,234	159
Denver-Aurora-Lakewood, CO	19740	2,213		2,045	168
Oxnard-Thousand Oaks-Ventura, CA	37100	2,195		1,838	357
Milwaukee-Waukesha, WI	33340	2,170		2,113	57
Trenton-Princeton, NJ	45940	2,045		1,068	977
Manchester-Nashua, NH	31700	1,957		555	1,401
Columbus, OH	18140	1,813		830	983
Madison, WI	31540	1,742		1,317	425
Miami-Fort Lauderdale-Pompano Beach, FL	33100	1,642		1,427	215
Bridgeport-Stamford-Norwalk, CT	14860	1,632		1,409	223
Cleveland-Elyria, OH	17460	1,625		1,485	140
Pittsburgh, PA	38300	1,523		1,420	103
Salt Lake City, UT	41620	1,516	i	1,319	197
Boulder, CO	14500	1,507		1,398	109
Tampa-St. Petersburg-Clearwater, FL	45300	1,506		988	518
Providence-Warwick, RI-MA	39300	1,505		1,451	54
Huntsville, AL	26620	1,457		575	882
Tucson, AZ	46060	1,425	i	750	675
Charlotte-Concord-Gastonia, NC-SC	16740	1,361	i	1,307	54
Worcester, MA-CT	49340	1,172		1,019	153
Albany-Schenectady-Troy, NY	10580	1,169		920	249
Cedar Rapids, IA	16300	1,080		0 - 1,081	0 - 1,081

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Palm Bay-Melbourne-Titusville, FL	37340	1,065	i	230	i	834	i
New Haven-Milford, CT	35300	1,021		967		54	
Orlando-Kissimmee-Sanford, FL	36740	978	i	708		270	i
Rochester, NY	40380	956		905		51	
Kalamazoo-Portage, MI	28020	947		589		359	
Corning, NY	18500	827	i	826	i	*	e
Peoria, IL	37900	819	i	0 - 820	i	0 - 820	i
Des Moines-West Des Moines, IA	19780	806	i	0 - 807	i	0 - 807	i
Hartford-East Hartford-Middletown, CT	25540	802		751		51	
Santa Maria-Santa Barbara, CA	42200	789		572		217	i
Greensboro-High Point, NC	24660	786	i	712	i	73	i
Provo-Orem, UT	39340	766		699		67	
Ann Arbor, MI	11460	759	i	557		202	
Grand Rapids-Kentwood, MI	24340	740		564		176	
Richmond, VA	40060	728		700		28	i
Riverside-San Bernardino-Ontario, CA	40140	710		650		60	i
Akron, OH	10420	700		490		210	i
Syracuse, NY	45060	675	i	482		193	i
Buffalo-Cheektowaga, NY	15380	674		501		173	i
Las Vegas-Henderson-Paradise, NV	29820	647		514		132	i
Jacksonville, FL	27260	634		597		37	i
Dayton-Kettering, OH	19430	624		295		329	
Albuquerque, NM	10740	618		314		304	i
Ogden-Clearfield, UT	36260	598	i	493	i	105	i
Columbus, IN	18020	580	i	502	i	79	
San Antonio-New Braunfels, TX	41700	579		505		73	i
Bloomington, IL	14010	577		561		16	i
Wichita, KS	48620	555		547		7	
Charleston-North Charleston, SC	16700	541		407		135	i
Allentown-Bethlehem-Easton, PA-NJ	10900	536		510		26	
Greenville-Anderson, SC	24860	491		460		31	i
Santa Rosa-Petaluma, CA	42220	485	i	469	i	16	i
Virginia Beach-Norfolk-Newport News, VA-NC	47260	471		294		177	
Elizabethtown-Fort Knox, KY	21060	443		443		*	e
Colorado Springs, CO	17820	428	i	349	i	79	
Oshkosh-Neenah, WI	36780	427		425		2	
Winston-Salem, NC	49180	413		356		57	
Fort Collins, CO	22660	411		359		52	
Omaha-Council Bluffs, NE-IA	36540	387		342		45	
Davenport-Moline-Rock Island, IA-IL	19340	385		383		1	e
Niles, MI	35660	375		375		*	e
Memphis, TN-MS-AR	32820	359		341		18	
Burlington, NC	15500	358	i	34	i	324	i
Binghamton, NY	13780	353	i	115	i	238	i
Waterloo-Cedar Falls, IA	47940	348		347		*	e
Pueblo, CO	39380	346		22	i	324	
Oklahoma City, OK	36420	324		294		30	
Bakersfield, CA	12540	301	i	186	i	116	i
Midland, MI	33220	0 - 384		0 - 383		1	i
Savannah, GA	42340	303 - 687		304		0 - 383	i

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Spokane-Spokane Valley, WA	44060	302 - 686	i	303	i	0 - 383	i
All other CBSAs		23,542		20,206		3,336	
Locations outside a CBSA		2,235		1,984		251	i
Undistributed <sup>a</sup>		2,584		2,399		186	

\* = amount < \$500,000; e = estimated, > 50% of the estimate is modeled—see Technical notes; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

CBSA = core-based statistical area.

<sup>a</sup> Includes data reported that were not allocated to a specific state by multi-establishment companies. For single-establishment companies, data reported were allocated to the state 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. 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 U.S. Census Bureau, Business Research and Development Survey, 2018.