

TABLE 29-B

Companies with domestic R&D paid for and performed by the company, by industry, company size, and state (N-Z): 2020

(Millions of U.S. dollars and number of companies)

Industry and company size	NAICS code	Companies, U.S. total ^a (number)	United States	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico	New York	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island	South Carolina	South Dakota	Tennessee	Texas	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming	Undistributed ^b				
All industries	21-23, 31-33, 42-81	28,720	466,162	769	707	1,093	18,054	857	21,062	9,242	331	7,511	945	10,190	13,544	581	1,337	209	1,568	22,834	2,981	295	5,072	40,576	203	5,506	1,035	707				
Manufacturing industries	31-33	15,420	264,596	234	374	702	14,211	282	8,949	5,634	163	6,058	612	8,643	10,523	518	991	157	990	15,059	1,447	171	1,365	5,061	170	3,486	1,010	425				
Food	311	970	4,985	56	2 e	13	254	2 i	50	159	4	153	66	19	70	1 e	7	5 i	27	53	7	3	51	50	* e	111	0-69 e	0-69				
Beverage and tobacco products	312	240	1,056	* e	* e	* e	1 e	* e	306	98	* e	1 i	1 i	3	5	* e	* e	* e	* e	204	* i	1 i	91	8	* e	7	* e	6				
Textile, apparel, and leather products	313-16	230	812	* e	* e	5	18	* e	23	40	* e	82	1	19	3	i	* e	64	* e	1 e	1 e	6	* e	1	* e	20	0-28	0-28				
Wood products	321	130	183	* e	* e	* e	* e	*	* i	5 i	7	2	*	2	4	i	2	* e	* e	4	7	* i	* i	7	* e	16	* e	10				
Paper	322	100	927	1	* e	2	14	* e	16	38	0	25	*	*	18	4	143	* e	15	5	* e	* e	62	11	* e	338	* e	5				
Printing and related support activities	323	210	282	* e	* e	*	1 i	1 i	7	17	* e	4	*	1 i	15	* i	1 i	* e	13	1	1 i	* e	* e	6	4	31	* e	12				
Petroleum and coal products	324	100	1,222	* e	2 e	* e	345	* e	7 e	4 e	0	13 e	0-58	3	20	* e	11	* e	1 e	597	4	0	7	1 e	* e	4	0	0-70				
Chemicals	325	2,450	89,403	23	20	48	11,883	14 e	4,460	2,103	3	2,486	25	133	7,421	41	116	35	319	1,340	332	20	228	1,336	i	132	558	2	40			
Basic chemicals	3251	300	2,523	5 e	2 e	2	166	8 e	157	36	1 e	249	10	9	212	3 e	25	31	229	232	2	0	116	19	10	50	1	8				
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	150	1,161	* e	*	* e	8	0	31	i	9	0	246	1	3	113	2	15	2	6	253	* e	* e	29	i	7	25	7	0	3		
Pesticide, fertilizer, and other agricultural chemicals	3253	130	775	1	* e	*	158	* e	2 e	268	*	4	* e	1	3 e	0	*	*	1	8	* e	* e	13	4	* e	27	0	4				
Pharmaceuticals and medicines	3254	1,190	80,858	14	16	i	39	11,267	6	4,036	1,700	1	585	9	30	6,920	33	53	1 e	71	779	324	15	59	1,264	i	96	328	* e	3		
Soap, cleaning compound, and toilet preparation	3256	340	2,476	2	* e	* e	212	i	* e	198	i	24	0	1,140	* e	2 e	17	i	3	3	i	* e	6	29	1 e	4	1 e	2 e	1 e	131	0	7
Paint, coating, adhesive, and other chemicals	3255, 3259	370	1,610	* e	1 i	6	71	* e	36	66	*	263	5	87	156	* e	20	* e	6	41	5	* i	9	39	* e	15	* e	15				
Plastics and rubber products	326	1,020	2,607	14	2 e	14	11 e	* e	168	119	1 e	443	84	5	i	86	9	51	3	34	117	3	* e	24	15	1 e	172	0-59	0-59			
Nonmetallic mineral products	327	240	1,619	i	* e	1 e	11	* e	913-1,060	i	12	* e	88	1 e	4	51	* e	8	* e	5	i	11	1 e	1	i	1 e	11	2	10	0-147 e	0-147	
Primary metals	331	270	795	* e	* e	8	3 e	4 i	11	11	* e	57	4	5	128	1 e	8	1	3 e	190	4	1	i	2	3 e	1	36	0-31 e	0-31			
Fabricated metal products	332	2,250	3,336	10	8 e	49	52	3 e	85 e	61	2 e	242	23 e	27 e	126 e	13	51	3 e	47	313	24	2 e	27 e	169	5 e	181	2	55				
Machinery	333	2,050	15,071	49	43	51	173	i	5	601	301	142	427	257	612	329	40	246	19	84	1,389	54	16	71	85	6 e	1,067	6	68			

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Industry and company size	NAICS code	Companies, U.S. total ^a (number)	United States	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico	New York	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island	South Carolina	South Dakota	Tennessee	Texas	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming	Undistributed ^b
Agricultural implement	33311	160	1,760	41	* i	0	* i	* e	1 e	36	55	72	0-92	2 i	0-92	*	3	8	5	2	3	0	* e	9	0	20	* e	0-38
Semiconductor machinery	333242	60	4,121	0	0	0	50 i	0	65 i	*	0	* e	0	446	21 i	0	0	0	* i	312 i	0	2 i	0	0	0	0	0	1
Engine, turbine, and power transmission equipment	3336	90	1,523	* e	3	1	15	0	313	12	* e	48	2	1	6	1 i	180	* e	* e	3	* e	0	32	4	* e	612	0	31
Other machinery	other 333	1,760	7,667	9 e	40	50	107 i	5	223	253	86	306	162-256	163	208-304	39	62	11	79	1,071	51	14	39	72	6 e	435	6	0-38
Computer and electronic products	334	2,090	88,505	43	45	406	796	243	1,476	1,939	2 e	605	54	7,092	1,032	48	122	32	92	9,180 i	500	105	295	1,048	5	155	821-1,002	0-165
Communications equipment	3342	360	11,107	7	21	122	369	11	360 i	792	1	86	12	47	209	6	0-32	1	41	614	110	2	181	186	2	23	0-99	0
Semiconductor and other electronic components	3344	530	40,801	8	4 i	101	191 i	227	303	770	0	105	0-9 e	6,722	418	26	38	2 e	17	2,730	202	97	35 i	179	1 e	48	489-1,002	0-165
Navigational, measuring, electromedical, and control instruments	3345	1,000	11,012	27	5	157	212	0-7	321	155	1 e	367	35	142	300	15	54	29	30	922	133 i	0-8	60	297	1 e	70	1 e	0-165
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	180	2,606	* e	0-4	59	17	0	43	13	0	61	1	2	134	* e	5	* e	21	11	97 i	* e	5	55	0	13	0	0-20 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	130	3,561	10	2	76	0-196 i	1	100	39	0	67	23	65	52	13	0-50	0	1	312-912	1 e	*	29	84	0	3	1 e	0
Other measuring and controlling device	other 3345	700	4,844	17	0-4 e	21	0-196	0-6	178	103	1 e	238 i	11	75	114	2 e	0-50	29	8	0-598	36	0-8	25	158	1 e	53	* e	0-165
Other computer and electronic products	other 334	210	25,585	1	14	27	24	0-6	493 i	223	* e	46 i	0-9	181	105	*	0-32	* i	4	4,913 i	55	0-8	20	386	1	15	0-232	0-165
Electrical equipment, appliances, and components	335	640	4,492	1 e	2 e	10	197	1	84	189	* e	154	14 i	75	366	13	37	50	29	147	2 i	2 e	24	54	1 e	128	0-41 i	0-41
Transportation equipment	336	900	30,232	29	9	9	110	5	278	222 i	2	931	24	338	233	6	117	5	136	1,159	212	7	410	1,849	11	271	0-25 e	6-34
Motor vehicles, bodies, trailers, and parts	3361-63	470	19,522	5	1	4	16	*	124	185 i	*	454	8	300	70	* e	93	1	103	140	40	*	12	115	1 e	82	* e	4
Aerospace products and parts	3364	310	9,111	23	9	5	90	5	149	16	1	447	13	37	119	5	6	*	20	997	169	6	139	1,730	10	17	0-25 e	0-25

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Aircraft, aircraft engine, and aircraft parts	336411-13	280	8,281	23	9	5	89	2	145	16	1	441	13	34	118	5	5	*	16	934	169	6	128	1,724	10	17	0-25	e	0-25																					
Guided missile, space vehicle, and related parts	336414-15, 336419	40	831	0	*	0	*	2	4	1	i	0	6	1	3	1	0	1	0	5	63	0	0	11	7	0	*	0	0																					
Military armored vehicle, tank, and tank component	336992	10	4	0	0	0	0	0	0	*	i	0	1	i	0	0	*	e	0	*	e	0	0	0	0	0	0	0	1																					
Other transportation	other 336	130	1,594	1	0	* e	5	0	5	20	*	29	2	i	1	e	45	i	*	e	18	3	12	22	3	* e	259	3	e	* e	173	0	3																	
Furniture and related products	337	240	492	* e	* e	1	e	3	* e	5	e	39	* e	11	1	e	5	22	* e	* e	* e	11	16	13	3	14	4	e	1	14	* e	14																		
Miscellaneous	339	1,420	18,576	7	239	85	338	i	3	e	303-451	276	1	e	337	6-64	301	594	340	i	9	e	3	e	170	328	282	11	49	387	2	e	367	i	0-147	48-197														
Medical equipment and supplies	3391	830	15,944	4	5	e	46	297	i	1	e	259	243	1	e	302	7	85	548	27	5	e	1	e	159	283	264	7	36	255	1	e	332	i	0	49														
Other miscellaneous manufacturing	3399	600	2,632	4	235	39	41	1	e	44-191	i	33	*	e	35	0-58	e	215	47	313	i	5	e	2	e	11	45	18	4	12	132	i	1	e	34	0-147	0-147													
Nonmanufacturing industries	21-23, 42-81	13,310	201,566	535	334	i	392	3,843	575	12,113	3,608	167	1,453	333	1,547	3,021	63	346	52	579	7,775	1,534	124	3,707	35,515	33	2,020	25	282																					
Mining, quarrying, oil and gas extraction, and support activities	21	280	1,121	* e	1	e	* e	* e	10	* e	2	7	i	1	e	57	i	* e	14	i	* e	* e	* i	2	i	749	10	i	* e	* e	1	i	1	e	9	i	2	i	3											
Utilities	22	50	224	5	0	0	3	0	9	*	7	16	*	*	5	0	0	7	0	5	1	0	0	16	4	*	7	1	i																					
Wholesale trade	42	1,100	1,001	7	2	e	3	e	31	1	e	56	71	i	4	i	35	3	e	16	18	e	1	e	13	3	10	e	58	11	i	* e	0-71	e	20	i	1	e	50	i	* e	0-71								
Electronic shopping and electronic auctions	454111-12	90	3,837-19,343	i	* e	0-158	i	7	i	0-275	i	1	i	0-710	i	15	i	1	i	132	i	1	i	323	i	0-148	i	1	i	14	i	* i	6	i	0-801	i	23	i	* e	1,040	i	11,076	i	0-0	0-0	0-0	0-128	i	* e	2
Transportation and warehousing	48-49	50	4,954	i	7	1	e	* e	3	e	* e	0-710	i	8	* e	24	1	e	12	265	i	* e	1	e	* e	45	25	6	* e	1,040	e	0-1,276	i	* e	6	* e	0-96													
Information	51	3,740	128,350	419	90	e	235	2,136	100	7,781	2,014	112	584	210	951	1,590	32	220	19	384	2,971	1,121	73	1,169	23,215	8	1,144	11	e	82																				
Publishing	511	1,630	34,516	28	39	143	268	22	737	1,133	97	317	34	407	357	12	e	27	8	35	773	244	41	288	15,915	4	808	3	0-83																					
Newspaper, periodical, book, and directory publishers	5111	30	60	* e	* e	1	*	* e	1	1	* e	1	* e	2	1	*	*	* e	*	1	* e	* e	14	*	*	*	* e	0-12																						
Software publishers	5112	1,610	34,456	28	39	143	267	22	736	1,132	97	316	34	405	356	12	e	27	8	34	771	244	41	274	15,914	3	808	3	0-83																					
Telecommunications	517	130	3,371	1	e	3	6	1,203	0-79	382	59	1	e	7	3	e	8	6	0-3	5	1	e	8	58	4	*	47	339	0-3	e	17	1	e	0-83																
Data processing, hosting, and related services	518	1,640	41,105	315	43	e	83	425	0-49	e	2,198	662	12	e	210	e	131	378	609	19	159	8	e	309	1,757	621	31	682	1,766	3	e	288	7	e	0-49															

Note(s):

Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. 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. 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, 2020.