

TABLE 20

Companies with domestic R&D paid for by the company and others and performed by the company in the nanotechnology focus area, by industry and company size: 2015

(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D		Nanotechnology R&D							
				Total		Paid for by company		Paid for by others			
		Companies (number) ^a	Amount	Companies (number) ^b	Amount	Companies (number) ^b	Amount	Companies (number) ^b	Amount		
All industries	21-23, 31-33, 42-81	54,759	355,821	1,689	21,617	1,501	20,123	364	1,494		
Manufacturing industries	31-33	27,891	236,132	1,241	20,325	1,151	19,256	190	1,069		
Food	311	1,378	4,838	D	*	D	*	0	0		
Chemicals	325	2,843	68,196	349	1,169	346	1,118	18	51		
Basic chemicals	3251	312	3,042	57	59	55	34	6	26		
Pharmaceuticals and medicines	3254	830	58,675	21	172	20	148	9	25		
Other chemicals	other 325	1,701	6,480	271	938	271	937	3	1		
Plastics and rubber products	326	1,657	2,541	14	10	14	9	D	*		
Nonmetallic mineral products	327	498	1,259	109	18	109	15	D	3		
Fabricated metal products	332	4,669	2,261	9	33	9	33	0	0		
Machinery	333	4,353	13,426	87	2,265	83	2,184	6	81		
Agricultural implements	33311	265	1,531	D	*	D	*	0	0		
Semiconductor machinery	333242	65	3,214	32	2,178	29	2,145	3	33		
Engines, turbines, and power transmission equipment	3336	379	2,535	D	*	D	*	0	0		
Other machinery	other 333	3,646	6,146	D	87	D	39	3	48		
Computer and electronic products	334	3,352	72,110	413	16,414	339	15,491	137	923		
Semiconductors and other electronic components	3344	1,032	30,451	187	15,701	155	14,818	64	883		
Other electronic products	other 334	2,320	41,658	226	713	184	674	73	40		
Electrical equipment, appliances, and components	335	1,036	4,335	119	35	118	34	D	*		
Transportation equipment	336	1,896	49,274	27	147	25	140	4	7		
Automobiles, bodies, trailers, and parts	3361-63	1,108	19,078	10	16	9	15	D	1		
Other transportation	other 336	787	30,196	17	131	16	125	D	7		
Miscellaneous manufacturing	339	2,558	13,690	95	227	90	225	15	2		
Other manufacturing	312-16, 321-24, 331, 337	3,660	4,201	D	7	D	6	5	1		
Nonmanufacturing industries	21-23, 42-81	26,870	119,690	448	1,292	349	867	174	425		
Mining, extraction, and support activities	21	324	4,012	D	D	5	21	D	D		
Utilities	22	73	480	D	1	D	1	0	0		
Wholesale trade	42	6,115	1,768	D	*	D	*	0	0		
Information	51	3,369	65,513	34	518	31	503	5	15		
Publishing	511	1,397	33,346	30	511	27	496	D	15		
Telecommunications	517	467	3,607	D	2	D	2	0	0		
Data processing, hosting, and related services	518	1,168	9,416	D	D	D	D	D	0		
Other information	other 51	337	19,144	D	D	D	D	0	0		
Professional, scientific, and technical services	54	14,711	38,626	D	D	308	339	D	D		
Architectural, engineering, and related services	5413	3,181	4,128	71	64	70	64	D	1		

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		Companies (number) ^a	Amount	Companies (number) ^b	Amount	Companies (number) ^b	Amount	Companies (number) ^b	Amount		
Scientific research and development services	5417	2,599	16,329	229	i 450	i 152	i 146	i 137	i 304	i	
Biotechnology research and development	541711	715	5,693	i 54	i 243	i 37	i 32	i 32	i 211	i	
Other scientific research and development	other 5417	1,884	10,636	175	i 207	i 115	i 114	i 105	i 94		
Other professional, scientific, and technical services	other 54	8,931	18,168	D	D	86	i 130	D	D		
Health care services	621-23	754	758	i D	1	D	1	0	0		
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	1,526	8,533	D	2	D	2	i D	*		
All companies (number of domestic employees)	-	54,759	355,821	1,689	i 21,617	i 1,501	i 20,123	i 364	i 1,494	i	
Micro companies ^c											
5-9	-	11,869	2,988	i 332	i 97	i 259	i 59	i 105	i 38	i	
Small companies											
10-19	-	13,460	5,680	i 375	i 153	i 332	i 115	i 76	i 37	i	
20-49	-	13,821	10,249	i 393	i 321	i 362	i 239	i 81	i 81	i	
Medium companies											
50-99	-	6,910	11,509	241	i 345	i 220	i 251	i 39	i 95		
100-249	-	4,420	13,602	124	i 498	i 115	i 374	i 20	124	i	
Large companies											
250-499	-	1,857	13,553	67	523	63	477	14	46	i	
500-999	-	951	15,217	43	629	i 41	458	i 5	171		
1,000-4,999	-	1,008	58,094	66	4,573	i 63	4,227	i 14	346	i	
5,000-9,999	-	206	38,838	19	3,105	19	2,972	3	133	i	
10,000-24,999	-	155	59,328	20	5,717	i 19	5,480	i 5	236		
25,000 or more	-	101	126,763	9	5,656	i 8	5,471	i 3	184	i	

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

^b Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. These company count estimates reflect a new imputation process implemented for survey year 2014. This change has affected the comparability of these company count estimates with estimates published for years prior to 2014. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

^c Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

Note(s)

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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 R&D. Some R&D may be reported in more than one application area. Some R&D is not classified in any application area.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2015.