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Employees, turnover and intramural R&D expenditure of enterprises, by economic activities and employment size classes¹²

Economic activity	2019					
	Employees ³	Turnover ³	Intramural R&D expenditure			
			Total	Per employee	Share of turnover	
	1,000	Millions of €	Millions of €	Thousands of €	in %	
A 01-03	Agriculture, forestry and fishing	8	2,205	185	24.2	8.4
B 05-09	Mining and quarrying	24	3,395	20	0.8	0.6
C 10-33	Manufacturing	3,669	1,374,254	64,361	17.5	4.7
10-12	Manufacture of food products; manufacture of tobacco products	111	49,535	337	3.0	0.7
13-15	Manufacture of textiles and wearing apparel; manufacture of leather and related products	39	10,825	115	2.9	1.1
16-18	Manufacture of wood and products of wood and cork (except furniture); manufacture of paper and paper products; publishing, printing and reproduction of recorded media	57	16,345	232	4.1	1.4
19	Manufacture of coke and refined petroleum products	7	23,064	159	22.4	0.7
20	Manufacture of chemicals and chemical products	257	104,493	4,411	17.1	4.2
21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	141	50,077	5,434	38.6	10.9
22	Manufacture of rubber and plastic products	162	44,660	1,333	8.2	3.0
23	Manufacture of other non-metallic mineral products	87	23,770	376	4.3	1.6
24	Manufacture of basic metals	170	80,932	543	3.2	0.7
25	Manufacture of fabricated metal products, except machinery and equipment	239	50,254	1,024	4.3	2.0
26	Manufacture of computer, electronic and optical products	361	104,296	8,721	24.2	8.4
27	Manufacture of electrical equipment	216	62,246	2,695	12.5	4.3
28	Manufacture of machinery and equipment n.e.c.	642	185,254	7,450	11.6	4.0
29	Manufacture of motor vehicles, trailers and semi-trailers	944	493,945	28,253	29.9	5.7
30	Manufacture of other transport equipment	100	37,508	1,977	19.8	5.3
31-33	Manufacture of furniture; other manufacturing; repair and installation of machinery and equipment	136	37,049	1,299	9.5	3.5
D; E 35; 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	187	163,706	187	1.0	0.1
F 41-43	Construction	104	20,837	117	1.1	0.6
J 58-63	Information and communication	287	65,316	4,295	14.9	6.6
K 64-66	Financial and insurance activities	115	92,664	337	2.9	0.4
M 69-75	Professional, scientific and technical activities	450	67,495	5,547	12.3	8.2
G-I, L, N-U	Remaining categories	1,321	335,622	782	0.6	0.2
Total		6,164	2,125,494	75,830	12.3	3.6

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Employees, turnover and intramural R&D expenditure of enterprises, by economic activities and employment size classes¹²

Employment size classes	2019				
	Employees ³	Turnover ³	Intramural R&D expenditure		
			Total	Per employee	Share of turnover
	1,000	Millions of €	Millions of €	Thousands of €	in %
Enterprises with employees					
Less than 100	360	76,763	3,816	10.6	5.0
100 to 249	387	95,204	2,892	7.5	3.0
250 to 499	400	114,144	3,373	8.4	3.0
Sub-total	1,147	286,112	10,081	8.8	3.5
500 to 999	466	151,815	4,189	9.0	2.8
1,000 to 1,999	555	219,455	6,254	11.3	2.8
2,000 to 4,999	715	343,628	8,189	11.5	2.4
5,000 to 9,999	542	217,634	8,646	16.0	4.0
10,000 and more	2,739	906,850	38,471	14.0	4.2
Sub-total	5,017	1,839,382	65,749	13.1	3.6
Total	6,164	2,125,494	75,830	12.3	3.6

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Employees, turnover and intramural R&D expenditure of enterprises, by economic activities and employment size classes¹²

Economic activity	2021					
	Employees ³	Turnover ³	Intramural R&D expenditure			
			Total	Per employee	Share of turnover	
	1,000	Millions of €	Millions of €	Thousands of €	in %	
A 01-03	Agriculture, forestry and fishing	9	2,912	228	24.6	7.8
B 05-09	Mining and quarrying	17	2,470	21	1.2	0.9
C 10-33	Manufacturing	3,657	1,365,053	62,638	17.1	4.6
10-12	Manufacture of food products; manufacture of tobacco products	113	51,050	336	3.0	0.7
13-15	Manufacture of textiles and wearing apparel; manufacture of leather and related products	44	18,063	131	2.9	0.7
16-18	Manufacture of wood and products of wood and cork (except furniture); manufacture of paper and paper products; publishing, printing and reproduction of recorded media	61	17,638	231	3.8	1.3
19	Manufacture of coke and refined petroleum products	11	27,508	143	13.2	0.5
20	Manufacture of chemicals and chemical products	254	107,173	4,599	18.1	4.3
21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	130	68,508	5,527	42.6	8.1
22	Manufacture of rubber and plastic products	159	40,532	1,338	8.4	3.3
23	Manufacture of other non-metallic mineral products	83	23,705	346	4.2	1.5
24	Manufacture of basic metals	161	88,535	502	3.1	0.6
25	Manufacture of fabricated metal products, except machinery and equipment	228	57,589	1,043	4.6	1.8
26	Manufacture of computer, electronic and optical products	364	107,335	9,034	24.8	8.4
27	Manufacture of electrical equipment	218	54,613	2,885	13.2	5.3
28	Manufacture of machinery and equipment n.e.c.	643	162,150	7,175	11.2	4.4
29	Manufacture of motor vehicles, trailers and semi-trailers	901	467,243	26,011	28.9	5.6
30	Manufacture of other transport equipment	148	37,816	1,774	12.0	4.7
31-33	Manufacture of furniture; other manufacturing; repair and installation of machinery and equipment	140	35,596	1,564	11.2	4.4
D; E 35; 36-39	Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities	195	250,335	198	1.0	0.1
F 41-43	Construction	126	26,488	119	0.9	0.4
J 58-63	Information and communication	307	88,592	5,465	17.8	6.2
K 64-66	Financial and insurance activities	93	64,473	350	3.8	0.5
M 69-75	Professional, scientific and technical activities	461	90,415	6,002	13.0	6.6
G-I, L, N-U	Remaining categories	1,412	345,195	739	0.5	0.2
Total		6,278	2,235,933	75,761	12.1	3.4

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Employees, turnover and intramural R&D expenditure of enterprises, by economic activities and employment size classes^{1,2}

Employment size classes	2021				
	Employees ³	Turnover ³	Intramural R&D expenditure		
			Total	Per employee	Share of turnover
	1,000	Millions of €	Millions of €	Thousands of €	in %
Enterprises with employees					
Less than 100	395	79,812	4,230	10.7	5.3
100 to 249	420	103,428	2,943	7.0	2.8
250 to 499	416	120,348	3,325	8.0	2.8
Sub-total	1,231	303,588	10,498	8.5	3.5
500 to 999	498	167,255	5,079	10.2	3.0
1,000 to 1,999	577	266,963	6,495	11.3	2.4
2,000 to 4,999	777	399,791	9,790	12.6	2.4
5,000 to 9,999	572	186,517	8,029	14.0	4.3
10,000 and more	2,623	911,820	35,870	13.7	3.9
Sub-total	5,047	1,932,345	65,263	12.9	3.4
Total	6,278	2,235,933	75,761	12.1	3.4

1 Including institutions for cooperative industrial research and experimental development.

2 Classification of economic activities, 2008 edition (based on NACE 2008 - Nomenclature statistique des activités économiques dans la Communauté européenne).

3 Employees and turnover of enterprises with internal and/or external R&D expenditure.

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Source: Special evaluation of the Stifterverband Wissenschaftsstatistik

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