

Table 17. Summary of R&D personnel

Persons, Person-years

Year	R&D personnel							R&D personnel indicators		
	Total	Researchers (1)		Technicians		Supporting staff		Resear- chers per 1,000 population	Resear- chers per 1,000 labor force	Annual R&D expenditure per researcher (Million NT\$)
		Female	Female	Female	Female					
1999	134 845	67 165	13 307	51 754	11 633	15 926	8 025	3.0	7.0	2.84
2001	138 409	73 239	13 334	48 886	11 830	16 283	9 096	3.3	7.4	2.80
2004	187 001	108 891	20 490	60 425	15 550	17 684	9 760	4.8	10.6	2.42
2005	195 721	115 954	22 712	62 298	16 194	17 469	9 559	5.1	11.2	2.42
2006	212 483	126 168	25 820	67 715	17 828	18 600	10 889	5.5	12.0	2.43
2007	228 987	136 249	27 294	72 799	19 115	19 939	11 773	5.9	12.7	2.44
2008	241 366	144 234	28 994	77 218	20 523	19 914	11 885	6.3	13.3	2.44
2009	256 543	155 216	31 899	80 271	22 368	21 056	11 818	6.7	14.2	2.37
2010	273 447	165 585	34 613	86 809	23 745	21 053	12 358	7.1	15.0	2.39
2011	288 726	174 600	37 626	91 757	25 087	22 369	13 463	7.5	15.6	2.37
2012	296 724	179 830	39 144	94 966	26 037	21 928	12 501	7.7	15.9	2.41
2013	301 001	180 353	39 599	98 497	26 566	22 151	13 126	7.7	15.8	2.54
2014	307 933	182 119	40 276	103 431	27 317	22 383	12 869	7.8	15.8	2.65
2015	313 463	183 571	40 805	106 800	27 985	23 092	13 069	7.8	15.8	2.78
2016	317 014	185 472	41 551	108 718	28 964	22 824	12 891	7.9	15.8	2.92
Year	Researchers (Full time equivalent)									
	Total	By field of science and technology						By qualification		
		Natural sciences	Engi- neering & techno- logy	Medical sciences	Agricul- tural sciences	Humanities	Social sciences	Ph.D.	Master	Bachelor
1999	54 844	7 962	35 172	4 189	2 949	2 046	2 526	11 614	20 435	22 795
2001	59 656	8 692	38 874	4 433	3 037	1 588	3 033	12 797	24 825	22 034
2004	81 209	12 035	54 040	6 246	2 835	1 807	4 245	14 655	41 657	24 898
2005	88 859	13 891	58 846	6 477	3 070	2 071	4 504	15 450	47 056	26 353
2006	95 176	15 327	62 759	6 611	3 239	2 058	5 182	16 792	49 545	28 839
2007	103 786	17 204	68 616	6 707	3 208	2 391	5 660	18 264	54 324	31 197
2008	110 461	18 489	73 077	7 375	3 216	2 524	5 779	19 580	58 157	32 725
2009	119 583	19 558	79 249	8 129	3 271	2 904	6 471	20 989	64 056	34 539
2010	128 347	20 727	85 692	8 807	3 594	2 984	6 544	22 473	68 462	37 412
2011	134 762	21 614	90 747	9 024	3 538	3 204	6 637	23 847	71 262	39 653
2012	140 102	22 611	94 278	9 500	3 504	3 187	7 022	25 025	74 101	40 976
2013	141 159	23 181	94 792	9 516	3 554	3 169	6 947	25 988	75 505	39 666
2014	142 983	23 387	96 245	9 883	3 466	3 203	6 799	26 143	77 240	39 600
2015	145 381	23 877	98 024	10 144	3 345	3 234	6 757	26 728	79 549	39 104
2016	147 710	24 011	100 371	10 223	3 274	3 128	6 703	26 949	81 815	38 946
Business enterprise	102 721	15 439	82 890	2 444	404	195	1 350	6 425	61 325	34 972
Government	15 366	2 830	7 947	2 187	1 505	346	551	5 293	8 167	1 907
Higher education	29 099	5 696	9 429	5 450	1 294	2 575	4 655	15 004	12 111	1 984
Private non-profit	523	46	105	142	71	12	147	228	212	84

Note: R&D personnel do not include the personnel of defense from 1999 to 2001 and include the students of Ph. D. program from 2002.

Source: Ministry of Science and Technology