



ENGINEERS
AUSTRALIA

Australia's Next Generation of Engineers

UNIVERSITY STATISTICS FOR ENGINEERING

2020

AUSTRALIA'S NEXT GENERATION OF ENGINEERS; University statistics for engineering

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1 Executive Summary

Australia sources its engineering labour force from national engineering education programs and from permanent and temporary skilled migration programs. At present the structural balance is weighted in favour of overseas born engineers which presents the risk that migration factors may change adversely. Therefore, it is important that Australia continues to increase the production of its own engineers through its education system. This report presents Australian higher education statistics for engineering to 2018.

The report reviews statistics for both domestic students and overseas students. Domestic students are citizens and permanent residents and production of engineers from this group demonstrates progress toward mitigating the risks associated with high dependence on skilled migration. Overseas students are those studying in Australia under temporary visa arrangements related to their education. Some overseas students when they complete their engineering education seek to join the Australian engineering labour force. This is possible but only by negotiating skilled migration arrangements. In the main, overseas students studying engineering in Australia are part of Australia's third largest export industry—the export of education services—and the statistics reported demonstrate progress in this area as well as the potential available for skilled migration programs.

The main focus of the report is the contribution of engineering education to increasing the national supply of engineers. It also provides detailed statistics for each state and territory and a discussion about the distribution of course commencements and completions between them.

The downwards trend in engineering course commencements by domestic students in university engineering courses reported in 2018 appears to have abated. This result was due to a reversal of the trends in entry level commencements which grew by 3.8% over 2017. Post-graduate commencements by domestic students continued to fall for the fourth consecutive year but when combined with the increase in entry level commencements an overall increase eventuated.

With entry level course commencements falling since 2013, it was expected that completions of these courses would fall and this appeared to be the case in 2017. However, in 2018 there was a 7.3% increase in the completion of entry level courses by domestic students and the completions achieved was the highest on record. However, completions of post-graduate courses by domestic students continued to fall.

In contrast, the overseas student market in engineering courses has boomed with substantial growth in commencements in entry level courses and double-digit growth in commencements of post-graduate courses. Consequently, the population of overseas engineering students attending Australia's universities has continued to grow rapidly. This rapid growth is now feeding into course completions at all levels, but particularly bachelor level and coursework master level degrees.

Until 2015 there had been a strong upwards trend in the number of new graduates qualifying to join the Australian engineering team, but this appeared to stall in 2016 and 2017. However, in 2018 this situation was broken with a 6.6% increase in new course completions adding 8,444 new engineers to Australia's supply. The number of women engineers has continued to grow but proportionally progress is not as good with the share of women in 2018 at 14.6%, lower than in 2001.

Cumulatively from 2010, Australian universities have produced 69,030 new graduates eligible to join the engineering team: 4,279 new engineering associates; 4,800 new engineering technologists and 59,951 new professional engineers.

2 Objective

This report updates and expands on statistics on university education in engineering that were reported in the Engineers Australia 2019 report, *Australia's Next Generation of Engineers*¹. National level statistics on commencements in university engineering courses, enrolments in these courses and completions in these courses are reported for the period 2001 to 2018. Statistics for both domestic students (students eligible for student loan schemes) and overseas students (fee paying students) are considered.

Entry level university course completions are examined in greater detail that focuses on the different course durations that lead to the three components of the engineering team and on broad engineering specialisations. Only statistics for domestic students are examined to avoid double counting because overseas students that migrate to Australia should be counted in migration statistics. Unfortunately, in a departure from previous practice, the Home Affairs department has not released statistics on permanent visas granted to engineers since 2015 even though large numbers continue to enter Australia under skilled migration programs.

A new component of this year's report is coverage of statistics for states and territories. Commencements and completions of courses in engineering and related technologies are reported for each jurisdiction as well as a duration breakdown of completions of entry level courses by domestic students.

3 Domestic students

Domestic students are either Australian citizens or permanent residents eligible to participate in university loan schemes. Table 1 presents statistics on course commencements, Table 2 presents statistics on course enrolments and Table 3 provides statistics on course completions.

The statistics cover all level of courses from undergraduate preparatory through to doctoral degrees. These statistics were provided on request by the Higher Education Division of the Commonwealth Department of Education and Training.

In 2019, Engineers Australia reported that total commencements in university engineering courses had been in decline since 2015. The peak in commencements occurred in 2014 when there were 21,456 commencements. By 2017, this number had fallen to 18,826, a reduction of 12.3%. It now appears that this contraction has stopped with a small increase of 0.2% in total course commencements to 18,855 in 2018, around about the level achieved in 2011.

The reversal was the result a 3.8% increase in entry level course commencements to 15,333. Because commencements in these courses accounted for 81.3% of all commencements in 2018, they were able to offset a 14.8% contraction in commencements in post-graduate courses to 2,907. There have now been four successive years of falls in post graduate commencements and this has meant an effective static situation since 2001 with the long-term growth rate just 0.8% per year. There have only been five years since 2001 when commencements in post-graduate courses were lower.

1. Engineers Australia, *Australia's Next generation of Engineers: university statistics for engineering, 2019*. Available at: <https://www.engineersaustralia.org.au/Government-And-Policy/Statistics>.

The proportion of women commencing engineering courses has slowly increased over the past three years after a period of more-or-less no change. In 2018, 18% of total engineering course commencements were from women; higher in post-graduate courses with 21.6% of commencements but still on the increase for entry level courses with 17.6%. The slow progress should be balanced regarding the increase in absolute numbers: 3,397 total commencements in 2018 compared to a low of 1,876 in 2005.

Last year we reported that the domestic engineering student population peaked at 68,028 in 2015 followed by two years of falls as a result of falling commencements (see Table 2). The 2018 increase in commencements was insufficient to staunch that trend and for a third year the domestic engineering student population fell, this time to 66,084. This change reflected shifts in the composition of commencements; the post-graduate student population fell by 6.9% while the entry level student population increased by 0.7%.

We also observed last year that the decline of domestic commencements resulted in two years of falling course completions. These falls were fairly small (0.4% in 2016 and 0.9% in 2017), but in 2018 an increase in completions of 4.5% to 11,915 more than offset them. This is a record high for completions of engineering courses by domestic students.

Previously, Engineers Australia had expressed some concern about the 0.3% fall in entry level course completions in 2017 because the reductions in commencements in these courses suggested that further falls in completions might be on the horizon. This has not eventuated because there was a 7.3% increase in completions of entry level courses to 8,836, also the highest number on record. Australia in 2018 produced 42.5% more entry level engineers than it did in 2001.

However, the negative trend in completions of post-graduate courses by domestic students continued. There have now been three successive years of decline with falls of 5.6% in 2016, 1.8% in 2017 and 2.6% in 2018.

The main reason for the falls was that there were fewer completions of post graduate diploma and certificates. There were 641 doctorates completed, a slight increase on the year before; 1,601 coursework masters completed, again a small increase over 2017. There were fewer research master degree completions but a 14.5% reduction in post-graduate diplomas or certificates.

The proportion of women completing engineering courses matched corresponding commencements. In 2018, 17.6% of commencements were by women as were 16.2% of completions. For post-graduate courses 21.6% of commencements were from women as were 21.0% of completions. These relationships have been consistent over time and suggest a greater propensity on the part of women to pursue post-graduate engineering studies.

Table 1: Domestic Students Commencing Engineering and Related Technologies Courses

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	406	472	492	537	437	378	418	380	443	514	480	435	496	490	537	529	531	427
Doctoral	272	292	246	269	232	211	179	143	247	244	171	174	179	208	204	162	133	103
Research masters	646	849	840	795	727	759	853	916	1211	1284	1287	1423	1447	1651	1699	1768	1596	1325
Coursework masters	906	823	947	850	901	841	791	864	937	909	490	530	938	934	689	564	479	425
Other postgraduate	9148	8792	8667	8574	8663	8913	9460	9698	10300	10731	11327	11739	12677	12800	12634	12136	11418	11651
Bachelors	212	232	233	240	331	349	459	759	849	1221	1155	1396	1715	1256	1051	974	941	976
Ass degrees & advanced diplomas	26	67	42	45	46	45	155	163	200	259	274	332	353	478	415	460	565	546
Diplomas	208	519	547	496	366	394	421	137	172	294	742	726	295	255	0	112	8	5
Other undergraduate	11824	12046	12014	11806	11703	11890	12736	13060	14359	15456	15926	16755	18100	18072	17229	16705	15671	15458
Total																		
Women	128	142	123	150	113	108	101	118	143	164	141	166	166	183	181	172	181	162
Doctoral	52	74	76	78	60	46	55	44	51	59	48	57	55	50	49	52	43	25
Research masters	152	158	167	169	149	184	178	212	238	257	275	267	333	392	392	355	335	346
Coursework masters	194	175	159	167	191	198	162	216	221	225	109	117	229	184	155	118	115	94
Other postgraduate	1638	1486	1422	1336	1257	1375	1591	1597	1752	1810	1827	1856	2140	2285	2262	2254	2318	2587
Bachelors	14	32	17	<10	42	42	65	83	81	136	102	140	175	114	127	115	100	119
Ass degrees & advanced diplomas	0	4	3	<10	0	2	15	21	33	25	25	26	47	43	23	55	60	62
Diplomas	29	54	52	27	64	86	97	89	116	220	360	326	188	133	0	76	3	2
Other undergraduate	2207	2125	2019	1936	1876	2041	2264	2380	2635	2896	2887	2955	3333	3384	3189	3197	3155	3397
Total																		
All domestic commencements	534	614	615	687	550	486	519	498	586	678	621	601	662	673	718	701	712	589
Doctoral	324	366	322	347	292	257	234	187	298	303	219	231	234	258	253	214	176	128
Research masters	798	1007	1007	964	876	943	1031	1128	1449	1541	1562	1690	1780	2043	2091	2123	1931	1671
Coursework masters	1100	998	1106	1017	1092	1039	953	1080	1158	1134	599	647	1167	1118	844	682	594	519
Other postgraduate	10786	10278	10089	9910	9920	10288	11051	11295	12052	12541	13154	13595	14817	15085	14896	14390	13736	14238
Bachelors	226	264	250	240	373	391	524	842	930	1357	1257	1536	1890	1370	1178	1089	1041	1095
Ass degrees & advanced diplomas	26	71	45	45	46	47	170	184	233	284	299	358	400	521	438	515	625	608
Diplomas	237	573	599	523	430	480	518	226	288	514	1102	1052	483	388	0	188	11	7
Other undergraduate	14031	14171	14033	13742	13579	13931	15000	15440	16994	18352	18813	19710	21433	21456	20418	19902	18826	18855
Total																		

Source: Data provided by the DET

Table 2: Domestic Students Enrolled in Engineering & Related Technologies Courses

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	1989	2058	2239	2365	2364	2314	2287	2212	2211	2271	2422	2497	2546	2513	2695	2800	2856	2707
Research masters	778	810	741	747	673	635	590	491	561	615	564	547	514	535	559	519	463	403
Coursework masters	1459	1713	1874	1905	1880	1884	2076	2259	2626	3001	3205	3376	3650	3923	4189	4401	4389	4056
Other postgraduate	1509	1494	1682	1662	1709	1717	1634	1715	1689	1731	916	1792	1754	1686	1402	1101	956	866
Bachelors	32934	32872	32769	32405	31994	32553	33759	35119	36852	38453	40009	41619	43618	44801	45157	44876	43850	43671
Assoc degrees & advanced diplomas	628	618	593	624	651	799	1070	1501	1897	2458	2716	5006	3396	3093	2932	2661	2462	2444
Diplomas	46	87	68	56	69	73	191	196	281	374	402	469	533	668	631	680	783	787
Other undergraduate	247	580	579	526	414	450	449	172	210	324	1112	355	360	317	93	83	9	7
Total	39590	40232	40545	40290	39754	40425	42056	43665	46327	49227	51347	53661	56371	57536	57658	57121	55768	54941

Women	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	562	562	599	636	635	621	630	640	655	711	761	807	843	859	922	988	1021	957
Research masters	159	158	173	187	184	162	142	131	136	154	140	142	148	149	153	141	127	90
Coursework masters	314	343	376	390	388	429	460	505	538	629	651	685	784	899	970	957	953	958
Other postgraduate	327	346	334	344	363	405	374	407	396	422	202	211	423	365	296	227	219	193
Bachelors	5896	5839	5675	5416	5117	5069	5299	5574	5874	6203	6380	6464	6929	7334	7598	7846	8035	8583
Assoc degrees & advanced diplomas	35	54	45	29	53	81	132	180	198	282	264	305	356	308	308	276	257	271
Diplomas	0	4	3	1	1	4	18	32	44	43	469	38	66	63	48	64	75	89
Other undergraduate	34	61	60	34	72	102	113	109	136	230	246	444	216	158	75	92	3	2
Total	7327	7367	7265	7037	6813	6873	7168	7578	7977	8674	8904	9096	9765	10135	10370	10591	10690	11143

Domestic students	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	2551	2620	2838	3001	2999	2935	2917	2852	2866	2982	3183	3304	3389	3372	3617	3788	3877	3664
Research masters	937	968	914	934	857	797	732	622	697	769	704	689	662	684	712	660	590	493
Coursework masters	1773	2056	2250	2295	2268	2313	2536	2764	3164	3630	3856	4061	4434	4822	5159	5358	5342	5014
Other postgraduate	1836	1840	2016	2006	2072	2122	2008	2122	2085	2153	1118	2003	2177	2051	1698	1328	1175	1059
Bachelors	38830	38711	38444	37821	37111	37622	39058	40693	42726	44656	46389	48083	50547	52135	52755	52722	51885	52254
Assoc degrees & advanced diplomas	663	672	638	653	704	880	1202	1681	2095	2740	2980	5311	3752	3401	3240	2937	2719	2715
Diplomas	46	91	71	57	70	77	209	228	325	417	871	507	599	731	679	744	858	876
Other undergraduate	281	641	639	560	486	552	562	281	346	554	1358	799	576	475	168	175	12	9
Total	46917	47599	47810	47327	46567	47298	49224	51243	54304	57901	60251	62757	66136	67671	68028	67712	66458	66084

Source: Data provided by DET

Table 3: Domestic Students Completing Courses in Engineering & Related Technologies

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	261	317	333	335	357	390	410	389	380	370	306	382	403	416	463	440	478	457
Doctoral	119	114	120	125	102	105	100	102	81	76	64	81	103	80	74	80	82	63
Research masters	529	511	551	538	521	487	548	564	649	834	873	969	1116	1158	1244	1290	1310	1308
Coursework masters	344	279	337	327	298	350	347	413	485	526	302	250	629	621	692	528	453	386
Other postgraduate	5034	4753	4847	5005	4732	5062	4931	5184	5161	5320	5649	5777	6016	6258	6546	6610	6588	7028
Bachelors	135	122	90	92	87	83	121	155	254	285	300	475	440	473	516	463	457	493
Assoc degrees & advanced diplomas	27	54	51	23	47	35	62	51	55	100	120	133	132	244	221	264	261	254
Diplomas	108	279	206	443	168	218	156	0	0	0	328	315	0	0	0	26	0	0
Other undergraduate	6557	6429	6535	6888	6312	6730	6675	6858	7065	7511	7942	8382	8639	9250	9756	9701	9629	9989
Total																		

Women	63	65	89	88	96	98	111	124	102	104	94	113	133	156	140	163	159	184
Doctoral	28	33	28	25	31	34	35	25	18	23	34	19	29	23	34	36	23	30
Research masters	107	113	112	107	114	89	138	126	139	190	172	176	239	268	299	277	280	293
Coursework masters	65	55	74	82	65	77	100	109	112	146	56	54	134	173	156	115	92	80
Other postgraduate	1027	968	984	975	948	964	855	893	902	917	1011	1018	1028	1134	1088	1133	1154	1267
Bachelors	5	<10	14	9	7	<10	12	20	24	35	27	43	35	52	54	55	36	48
Assoc degrees & advanced diplomas	0	<10	1	0	0	<10	11	9	5	9	10	8	20	20	18	21	30	24
Diplomas	4	13	6	1	5	3	4	0	0	0	78	83	0	0	0	0	0	0
Other undergraduate	1299	1257	1308	1287	1266	1271	1266	1306	1302	1424	1482	1514	1622	1824	1789	1800	1774	1926
Total																		

All domestic completions	324	382	422	423	453	488	521	513	482	474	400	495	536	572	603	603	637	641
Doctoral	147	147	148	150	133	139	135	127	99	99	98	100	132	103	108	116	105	93
Research masters	636	624	663	645	635	576	686	690	788	1024	1045	1145	1355	1426	1543	1567	1590	1601
Coursework masters	409	334	411	409	363	427	447	522	597	672	358	304	763	794	848	643	545	466
Other postgraduate	6061	5721	5831	5980	5680	6026	5786	6077	6063	6237	6660	6795	7044	7392	7634	7743	7742	8295
Bachelors	140	122	104	101	94	83	133	175	278	320	327	518	479	523	570	518	493	541
Assoc degrees & advanced diplomas	27	54	52	23	47	35	73	60	60	109	130	141	152	264	239	285	291	278
Diplomas	112	292	212	444	173	221	160	0	0	0	406	398	0	0	0	26	0	0
Other undergraduate	7856	7686	7843	8175	7578	8001	7941	8164	8367	8935	9424	9896	10461	11074	11545	11501	11403	11915
Total																		

Source: Data provided by DET

4 Overseas students



Many overseas students apply for on-shore permanent migration visas during the final stages of their courses to allow them to remain in Australia. However, this group should not be amalgamated with domestic students to establish the supply of new entry level engineers because immigration formalities are the hallmark of this process and many other overseas students do return to their home country.

The approach taken by Engineers Australia is to present statistics for overseas students as indicators of what is happening in Australian engineering education, but to capture the increase in supply of entry level engineers through immigration statistics which also capture migrant engineers who did not study in Australia.

After a lull between 2010 and 2013, overseas student commencements in engineering accelerated, averaging 13.3% over the five years to 2017. This moderated in 2018 but 6.2% growth in commencements is still very strong.

The strongest growth was in commencements in post-graduate courses while commencements in entry level courses slowed and actually fell in 2018. Overseas student commencements in entry level courses have fallen before and it remains to be seen whether they will recover this time. Long term growth in these commencements has been 5.2% per year and suggests they may. In 2018, there were 7,694 overseas course commencements in entry level courses, a substantial number by any stretch.

The number of overseas post-graduate commencements is now exceptionally high. In 2018, there were 11,163 commencements compared to 1,884 in 2001. The predominant course level commenced was coursework master degrees with 9,364 commencements in 2018, 83.9% of post graduate commencements. Overseas student commencements in doctoral programs have steadily grown and were 1,491 in 2018 compared to 589 for domestic students.

Overseas student commencements in engineering courses have continued to grow as a proportion of overall commencements and were a majority in each of the past two years, accounting for 52.1% of commencements in 2018 compared to 27.3% in 2001.

The proportion of women among commencements by overseas students has generally been higher than for domestic students. In 2018, the proportion of women was 18.7% for entry level courses; 20.5% for post graduate courses and 18.2% overall.

Overseas student completions of engineering courses have also grown strongly. There were 4,850 completions of entry level courses in 2018, an increase of 8.6% over the previous year with 21.6% accounted for by women. There were 7,509 completions of post-graduate courses, an increase of 29.6% over 2017 and 22.2% were women. The bulk of overseas course completions were coursework master degrees. In 2018, there were 6,473 completions in these courses compared to 1,601 by domestic students. More overseas students complete doctoral programs than domestic students; in 2018, there were 796 overseas student completions compared to 641 domestic student completions.

Table 4: Overseas Students Commencing Engineering & Related Technologies Courses

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level																		
Doctoral	190	186	207	213	222	272	336	413	579	600	654	773	830	832	868	819	1035	1056
Research masters	97	117	133	173	137	135	144	131	144	164	165	160	144	156	120	111	151	157
Coursework masters	1089	1442	2443	2344	2142	1940	2101	2084	2580	2217	1962	2243	2966	3679	4360	5347	6461	7566
Other postgraduate	194	219	128	134	260	269	251	255	316	257	206	156	201	108	139	115	144	91
Bachelors	2818	3206	3564	3283	3109	3184	3523	3679	4385	4628	4624	4331	4426	4867	5143	5742	5964	6047
Ass degrees & advanced diplomas	15	29	14	23	40	47	159	129	181	144	264	184	166	183	184	206	218	212
Diplomas	1	29	12	17	64	48	345	274	415	590	565	601	923	1115	1256	1319	1374	1381
Other undergraduate	2	9	46	34	41	63	34	50	45	53	69	63	0	0	18	72	68	59
Total	4406	5237	6547	6221	6015	5958	6893	7015	8645	8653	8509	8511	9656	10940	12088	13731	15415	16569

Women																		
Doctoral	47	40	50	51	50	89	95	162	225	198	253	255	297	329	284	313	393	435
Research masters	24	23	25	30	40	43	54	49	64	54	67	65	55	55	43	50	53	31
Coursework masters	216	303	407	443	437	355	427	468	520	553	473	515	626	838	1113	1417	1640	1798
Other postgraduate	27	38	20	28	35	53	50	54	49	61	32	25	48	21	38	38	34	29
Bachelors	556	653	716	653	669	670	766	786	926	998	965	892	991	1096	1367	1352	1518	1400
Ass degrees & advanced diplomas	1	1	1	2	1	2	3	4	10	13	9	14	38	9	14	30	26	35
Diplomas	0	18	0	0	44	67	86	39	60	81	53	57	82	120	145	198	220	195
Other undergraduate	3	1	17	8	10	10	19	13	15	12	23	18	0	0	5	5	11	12
Total	874	1077	1236	1215	1286	1289	1500	1575	1869	1970	1877	1844	2137	2468	3009	3403	3895	3935

All overseas commencements																		
Doctoral	237	226	257	264	272	361	431	575	804	798	907	1028	1127	1161	1152	1132	1428	1491
Research masters	121	140	158	203	177	178	198	180	208	218	232	225	199	211	163	161	204	188
Coursework masters	1305	1745	2850	2787	2579	2295	2528	2552	3100	2770	2435	2758	3592	4517	5473	6764	8101	9364
Other postgraduate	221	257	148	162	295	322	301	309	365	318	238	181	249	129	177	153	178	120
Bachelors	3374	3859	4280	3936	3778	3854	4289	4465	5311	5626	5589	5223	5417	5963	6510	7094	7482	7447
Ass degrees & advanced diplomas	16	30	15	25	41	49	162	133	191	157	273	198	204	192	198	236	244	247
Diplomas	1	47	12	17	108	115	431	313	475	671	618	658	1005	1235	1401	1517	1594	1576
Other undergraduate	5	10	63	42	51	73	53	63	60	65	92	81	0	0	23	77	79	71
Total	5280	6314	7783	7436	7301	7247	8393	8590	10514	10623	10384	10352	11793	13408	15097	17134	19310	20504

Source: Data provided by the DET

Table 5: Overseas Students Enrolled in Engineering & Related Technologies Courses

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level																		
Doctoral	560	617	704	791	901	1001	1113	1284	1620	1903	2242	2684	3000	3185	3274	3365	3543	3845
Research masters	197	213	232	306	320	338	334	309	297	340	351	354	341	367	345	292	313	341
Coursework masters	1647	2193	3674	4051	4109	3662	3743	4065	4532	4617	4196	4088	5055	6543	8170	10397	12950	15824
Other postgraduate	278	332	219	208	335	359	332	346	406	389	286	283	280	188	178	161	178	124
Bachelors	6673	7815	9045	9613	9683	9931	10507	11414	12471	13899	14728	14971	15470	15900	16503	17870	19116	20107
Assoc degrees & advanced diplomas	29	43	31	43	55	73	180	233	311	291	408	471	394	384	386	426	461	442
Diplomas	1	36	32	40	82	94	526	527	652	927	997	962	1312	1699	1952	2176	2198	2236
Other undergraduate	2	12	53	42	48	72	36	54	46	54	82	72	0	0	18	81	90	71
Total	9387	11261	13990	15094	15533	15530	16771	18232	20335	22420	23287	23818	25852	28266	30826	34768	38849	42990

Doctoral	134	137	157	193	210	263	310	423	568	682	834	971	1038	1111	1144	1185	1298	1462
Research masters	38	47	49	54	81	90	112	111	126	136	136	151	145	140	125	118	114	99
Coursework masters	379	457	660	758	803	682	690	861	934	1019	947	929	1077	1411	1908	2626	3313	3825
Other postgraduate	43	51	33	32	45	63	59	66	65	74	49	37	68	47	48	44	37	38
Bachelors	1394	1682	1919	2025	2061	2125	2284	2449	2645	2963	3123	3153	3325	3525	3880	4282	4766	5004
Assoc degrees & advanced diplomas	2	2	3	3	1	2	5	7	13	19	18	29	53	31	30	37	53	61
Diplomas	0	18	31	31	51	112	167	110	86	120	104	91	122	172	218	281	330	332
Other undergraduate	4	1	18	10	12	12	20	14	15	14	26	23	0	0	5	7	13	14
Total	1994	2395	2870	3106	3264	3349	3647	4041	4452	5027	5239	5387	5828	6437	7358	8580	9924	10835

Doctoral	694	754	861	984	1111	1264	1423	1707	2188	2585	3076	3655	4038	4296	4418	4550	4841	5307
Research masters	235	260	281	360	401	428	446	420	423	476	487	505	486	507	470	410	427	440
Coursework masters	2026	2650	4334	4809	4912	4344	4433	4926	5466	5636	5143	5017	6132	7953	10078	13023	16263	19649
Other postgraduate	321	383	252	240	380	422	391	412	471	463	335	320	348	235	226	205	215	162
Bachelors	8067	9497	10964	11638	11744	12056	12791	13863	15116	16862	17851	18124	18795	19425	20383	22152	23882	25111
Assoc degrees & advanced diplomas	31	45	34	46	56	75	185	240	324	310	426	500	447	415	416	463	514	503
Diplomas	1	54	63	71	133	206	693	637	738	1047	1101	1053	1434	1871	2170	2457	2528	2568
Other undergraduate	6	13	71	52	60	84	56	68	61	68	108	95	0	0	23	88	103	85
Total	11381	13656	16860	18200	18797	18879	20418	22273	24787	27447	28526	29205	31680	34703	38184	43348	48773	53825

Source: Data provided by DET

Table 6: Overseas Students Completing Courses in Engineering & Related Technologies

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	78	84	86	127	154	173	207	152	181	255	294	340	423	527	481	581	566	614
Doctoral	45	36	35	59	59	104	75	76	64	65	86	80	83	87	71	93	93	95
Research masters	718	870	1441	1610	1909	1539	1607	1785	1906	2162	2256	1823	1934	2195	2580	3065	3691	5045
Coursework masters	93	128	121	103	156	207	181	194	200	235	197	129	184	133	126	112	114	87
Other postgraduate	1373	1424	1618	1794	1958	1904	1836	2036	2115	2375	2701	2842	3250	3187	2809	3070	3429	3652
Bachelors	16	19	12	12	21	10	24	67	87	85	56	133	127	85	113	122	142	132
Assoc degrees & advanced diplomas	1	17	13	21	21	42	188	239	204	263	353	329	367	634	679	903	891	874
Diplomas	1	4	41	10	13	28	8	11	15	0	82	63	0	0	0	34	55	44
Other undergraduate	2325	2582	3367	3736	4291	4007	4126	4560	4772	5440	6025	5739	6368	6848	6859	7980	8981	10543
Total																		

Doctoral	19	15	23	24	31	35	46	32	45	63	91	117	156	169	175	174	214	182
Research masters	15	5	11	14	16	22	20	25	22	32	35	32	30	28	50	35	28	34
Coursework masters	198	201	275	332	390	291	293	403	440	498	529	436	469	517	625	799	1067	1428
Other postgraduate	15	22	24	16	37	31	31	47	41	44	22	16	35	31	34	25	22	24
Bachelors	285	324	379	426	438	439	454	548	474	537	620	624	724	794	674	748	872	1040
Assoc degrees & advanced diplomas	0	0	0	2	0	0	1	4	4	9	0	10	11	12	16	5	23	26
Diplomas	0	0	10	23	7	43	80	77	32	32	51	31	32	77	111	121	145	157
Other undergraduate	0	1	11	2	5	5	2	5	3	0	31	9	0	0	0	7	8	11
Total	532	568	733	839	924	866	927	1141	1061	1215	1380	1277	1457	1628	1685	1914	2379	2902

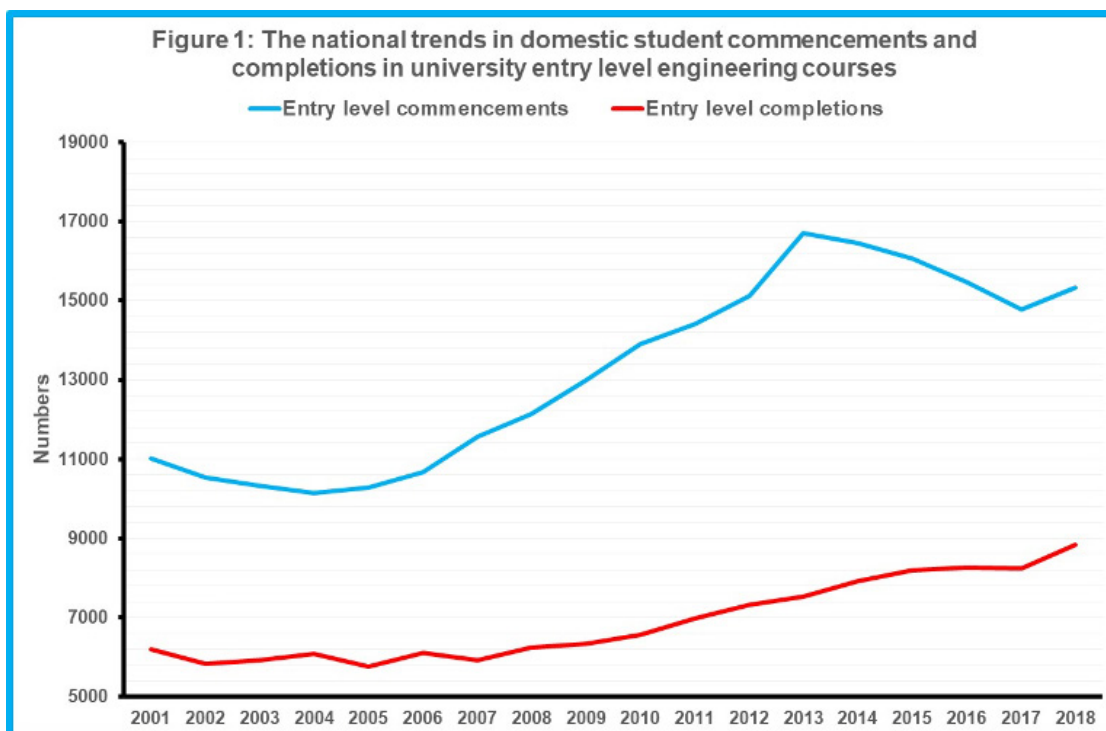
Doctoral	97	99	109	151	185	208	253	184	226	318	385	457	579	696	656	755	780	796
Research masters	60	41	46	73	75	126	95	101	86	97	121	112	113	115	121	128	121	129
Coursework masters	916	1071	1716	1942	2299	1830	1900	2188	2346	2660	2785	2259	2403	2712	3205	3864	4758	6473
Other postgraduate	108	150	145	119	193	238	212	241	241	279	219	145	219	164	160	137	136	111
Bachelors	1658	1748	1997	2220	2396	2343	2290	2584	2589	2912	3321	3466	3974	3981	3483	3818	4301	4692
Assoc degrees & advanced diplomas	16	19	12	14	21	10	25	71	91	94	56	143	138	97	129	127	165	158
Diplomas	1	17	23	44	28	85	268	316	236	295	404	360	399	711	790	1024	1036	1031
Other undergraduate	1	5	52	12	18	33	10	16	18	0	113	72	0	0	0	41	63	55
Total	2857	3150	4100	4575	5215	4873	5053	5701	5833	6655	7405	7016	7825	8476	8544	9894	11360	13445

Source: Data provided by DET

5 National summary

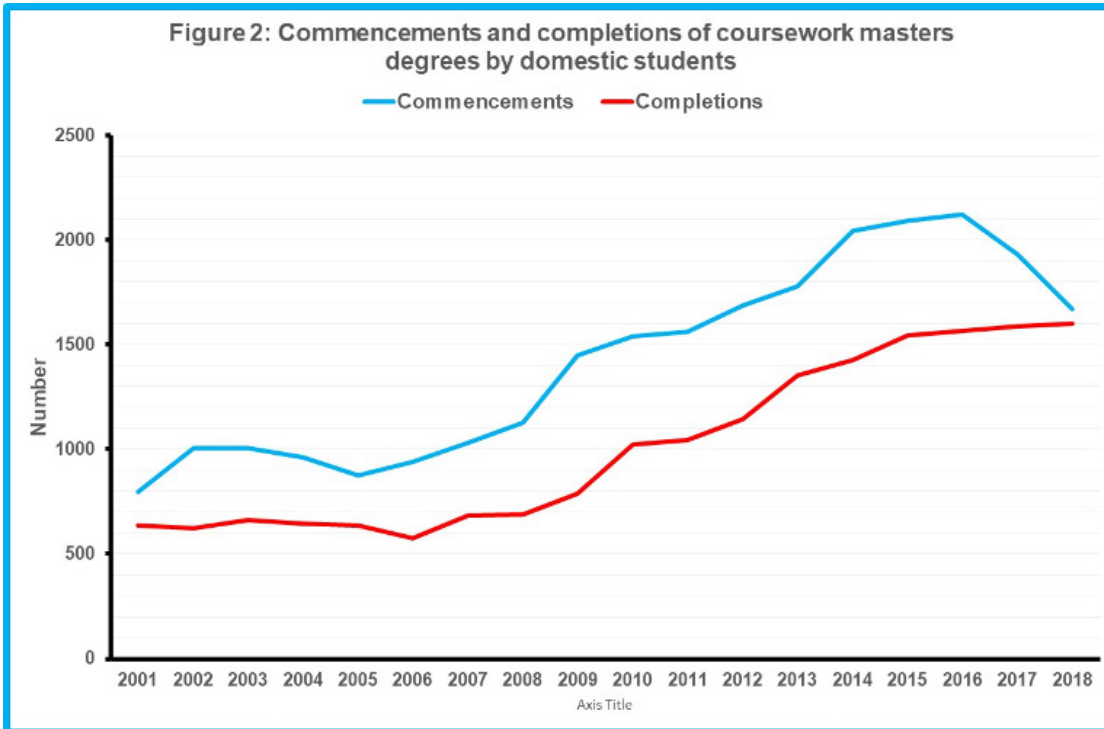
The next three Tables, Tables 7 to 9 inclusive, combine statistics for domestic and overseas students of engineering courses in Australian universities. There are two important developments that warrant highlighting.

The first is the recovery in domestic student commencements and completions in entry level courses and is illustrated in Figure 1.



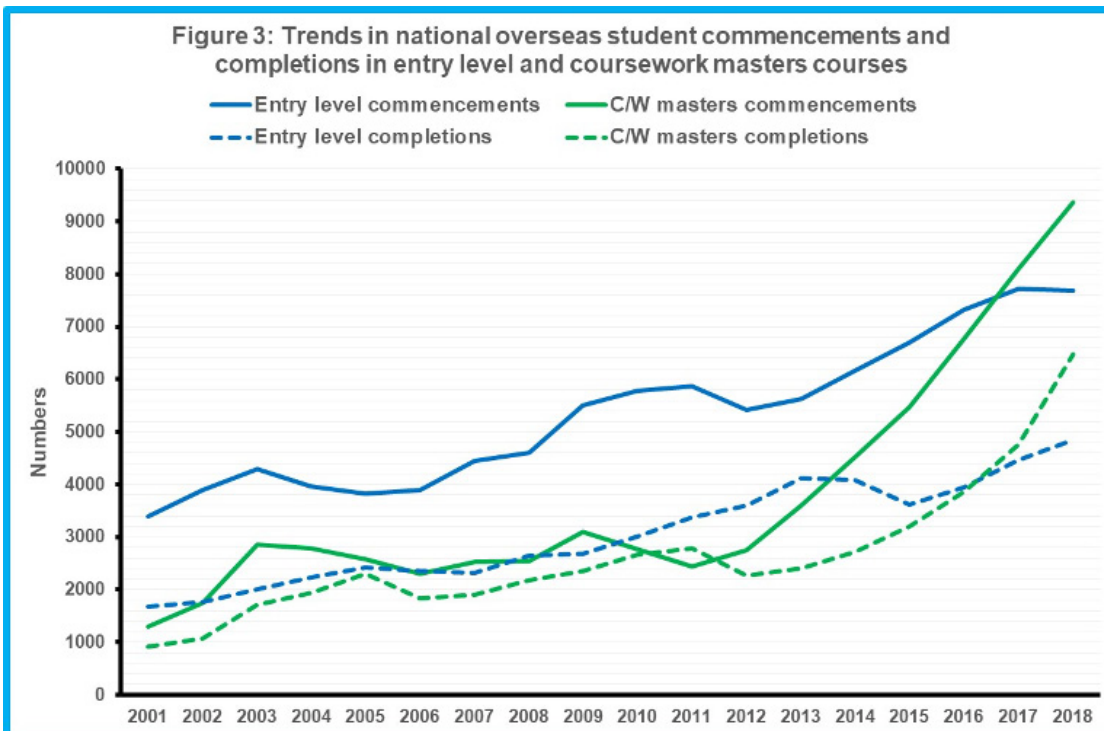
Entry level commencements by domestic students had been falling since 2013 and was beginning to be observed as a flattening in the completions trend. However, in 2018 the picture changed: the falling trend in commencements reversed and there was a small increase in completions. A decade ago some universities changed from the traditional model of four-year full-time bachelor's degree in engineering to a two-degree model comprised of a three-year bachelor's degree in science, commerce or law and a master's degree in engineering. So far as statistics are concerned, the latter cannot be distinguished from coursework master's degrees that follow on from the completion of the traditional four-year bachelor's degree.

Figure 2 shows that after initially strong increases in commencements in coursework master's degrees by domestic students, commencements in these courses peaked in 2016 and have since fallen. Although completions have continued to rise, the rate of growth has slowed considerably. Because we don't know how many coursework master students are pursuing combined courses it is difficult to know the precise impact of these trends on the supply of entry level engineers. However, both completion trends in Figures 1 and 2 are rising suggesting that the supply may be continuing to increase.



The second important development is illustrated in Figure 3. The numbers of overseas students studying entry level courses and coursework master’s degrees in engineering are rapidly increasing. Overseas student commencements were the majority in the past two years, a trend that seems likely to continue.

Overseas student commencements are now 79.3% of post-graduate commencements and 33.4% of entry level commencements.



The engineering student population has exceeded 100,000 for the past five years. In 2018, it was 119,909, an increase of 4.1% over the previous year. There were 80,583 entry level students, 31.8% of whom were overseas students and 35,788 post-graduate students, 71.4% of whom were overseas students.

In summary, 2018 was a very good year for engineering education, some important highlights include:

- Overall course completions increased by 11.4% in 2018 to 25,360.
- For the first time the majority of completions (53.0%) were by overseas students.
- Growth in completions was strong for both entry level courses (7.8%) and particularly so for post-graduate courses (18.9%).

The bulk of completions by domestic students were entry level courses (8,836 or 74.2% of domestic completions) while the bulk of completions by overseas students were post-graduate courses (7,509 or 55.8%).

Table 7: Students Commencing Engineering & Related Technologies Courses, by Country of Domicile

Domestic students																		
Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	534	614	615	687	550	486	519	498	586	678	621	601	662	673	718	701	712	589
Research masters	324	366	322	347	292	257	234	187	298	303	219	231	234	258	253	214	176	128
Coursework masters	798	1007	1007	964	876	943	1031	1128	1449	1541	1562	1690	1780	2043	2091	2123	1931	1671
Other postgraduate	1100	998	1106	1017	1092	1039	953	1080	1158	1134	1187	647	1167	1118	844	682	594	519
Bachelors	10786	10278	10089	9910	9920	10288	11051	11295	12052	12541	13154	13595	14817	15085	14896	14390	13736	14238
Ass degrees & advanced diplomas	226	264	250	240	373	391	524	842	930	1357	1257	1536	1890	1370	1178	1089	1041	1095
Diplomas	26	71	45	45	46	47	170	184	233	284	299	358	400	521	438	515	625	608
Other undergraduate	237	573	599	523	430	480	518	226	288	514	514	1052	483	388	0	188	11	5
Total	14031	14171	14033	13742	13579	13931	15000	15440	16994	18352	18813	19710	21433	21456	20418	19902	18826	18855
Overseas students																		
Doctoral	237	226	257	264	272	361	431	575	804	798	907	1028	1127	1161	1152	1132	1428	1491
Research masters	121	140	158	203	177	178	198	180	208	218	232	225	199	211	163	161	204	188
Coursework masters	1305	1745	2850	2787	2579	2295	2528	2552	3100	2770	2435	2758	3592	4517	5473	6764	8101	9364
Other postgraduate	221	257	148	162	295	322	301	309	365	318	327	181	249	129	177	153	178	120
Bachelors	3374	3859	4280	3936	3778	3854	4289	4465	5311	5626	5589	5223	5417	5963	6510	7094	7482	7447
Ass degrees & advanced diplomas	16	30	15	25	41	49	162	133	191	157	275	198	204	192	198	236	244	247
Diplomas	1	47	12	17	108	115	431	313	475	671	618	658	1005	1235	1401	1517	1594	1576
Other undergraduate	5	10	63	42	51	73	53	63	60	65	<5	81	0	0	23	77	79	71
Total	5280	6314	7783	7436	7301	7247	8393	8590	10514	10623	10386	10352	11793	13408	15097	17134	19310	20504
All commencing students																		
Doctoral	771	840	872	951	822	847	950	1073	1390	1476	1528	1629	1789	1834	1870	1833	2140	2080
Research masters	445	506	480	550	469	435	432	367	506	521	451	456	433	469	416	375	380	316
Coursework masters	2103	2752	3857	3751	3455	3238	3559	3680	4549	4311	3997	4448	5372	6560	7564	8887	10032	11035
Other postgraduate	1321	1255	1254	1179	1387	1361	1254	1389	1523	1452	1514	828	1416	1247	1021	835	772	639
Bachelors	14160	14137	14369	13846	13698	14142	15340	15760	17363	18167	18743	18818	20234	21048	21406	21484	21218	21685
Ass degrees & advanced diplomas	242	294	265	265	414	440	686	975	1121	1514	1532	1734	2094	1562	1376	1325	1285	1342
Diplomas	27	118	57	62	154	162	601	497	708	955	917	1016	1405	1756	1839	2032	2219	2184
Other undergraduate	242	583	662	565	481	553	571	289	348	579	514	1133	483	388	23	265	90	76
Total	19311	20485	21816	21178	20880	21178	23393	24030	27508	28975	29196	30062	33226	34864	35515	37036	38136	39359

Source: Data provided by the DET

Table 8: Students Enrolled in Engineering & Related Technologies Courses, by Country of Domicile

Domestic																		
Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	2551	2620	2838	3001	2999	2935	2917	2852	2866	2982	3183	3304	3389	3372	3617	3788	3877	3664
Research masters	937	968	914	934	857	797	732	622	697	769	704	689	662	684	712	660	590	493
Coursework masters	1773	2056	2250	2295	2268	2313	2536	2764	3164	3630	3856	4061	4434	4822	5159	5358	5342	5014
Other postgraduate	1836	1840	2016	2006	2072	2122	2008	2122	2085	2153	1118	1224	2177	2051	1698	1328	1175	1059
Bachelors	38830	38711	38444	37821	37111	37622	39058	40693	42726	44656	46389	48083	50547	52135	52755	52722	51885	52254
Assoc degrees & advanced diplomas	663	672	638	653	704	880	1202	1681	2095	2740	2980	3311	3752	3401	3240	2937	2719	2715
Diplomas	46	91	71	57	70	77	209	228	325	417	871	507	599	731	679	744	858	876
Other undergraduate	281	641	639	560	486	552	562	281	346	554	1358	1578	576	475	168	175	12	9
Total	46917	47599	47810	47327	46567	47298	49224	51243	54304	57901	60251	62757	66136	67671	68028	67712	66458	66084
Overseas																		
Doctoral	694	754	861	984	1111	1264	1423	1707	2188	2585	3076	3655	4038	4296	4418	4550	4841	5307
Research masters	235	260	281	360	401	428	446	420	423	476	487	505	486	507	470	410	427	440
Coursework masters	2026	2650	4334	4809	4912	4344	4433	4926	5466	5636	5143	5017	6132	7953	10078	13023	16263	19649
Other postgraduate	321	383	252	240	380	422	391	412	471	463	335	320	348	235	226	205	215	162
Bachelors	8067	9497	10984	11638	11744	12056	12791	13863	15116	16862	17851	18124	18795	19425	20383	22152	23882	25111
Assoc degrees & advanced diplomas	31	45	34	46	56	75	185	240	324	310	426	500	447	415	416	463	514	503
Diplomas	1	54	63	71	133	206	693	637	738	1047	1101	1053	1431	1871	2170	2457	2528	2568
Other undergraduate	6	13	71	52	60	84	56	68	61	68	108	95	0	0	23	88	103	85
Total	11381	13656	16860	18200	18797	18879	20418	22273	24787	27447	28526	29205	31680	34703	38184	43348	48773	53825
All students																		
Doctoral	3245	3374	3699	3985	4110	4199	4340	4559	5054	5567	6259	6959	7427	7668	8035	8338	8718	8971
Research masters	1172	1228	1195	1294	1258	1225	1178	1042	1120	1245	1191	1194	1148	1191	1182	1070	1017	933
Coursework masters	3799	4706	6584	7104	7180	6657	6969	7690	8630	9266	8999	9078	10566	12775	15237	18381	21605	24663
Other postgraduate	2157	2223	2268	2246	2452	2544	2399	2534	2556	2616	2560	1544	2525	2286	1924	1533	1390	1221
Bachelors	46897	48208	49408	49459	48855	49678	51849	54556	57842	61518	64240	66207	69342	71560	73138	74874	75767	77365
Assoc degrees & advanced diplomas	694	717	672	699	760	955	1387	1921	2419	3050	3408	3811	4199	3816	3656	3400	3233	3218
Diplomas	47	145	134	128	203	283	902	865	1063	1464	1540	1560	2030	2602	2849	3201	3386	3444
Other undergraduate	287	654	710	612	546	636	618	349	407	622	580	1673	576	191	263	115	94	94
Total	58298	61255	64670	65527	65364	66177	69642	73516	79091	85348	88777	91962	97816	102374	106212	111060	115231	119909

Source: Data provided by DET

Table 9: Students Completing Courses in Engineering & Related Technologies, by Country of Domicile

Domestic																		
Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	324	382	422	423	453	488	521	513	482	474	400	495	536	572	603	603	637	641
Research masters	147	147	148	150	133	139	135	127	99	99	98	100	132	103	108	116	105	93
Coursework masters	636	624	663	645	635	576	686	690	788	1024	1045	1145	1355	1426	1543	1567	1590	1601
Other postgraduate	409	334	411	409	363	427	447	522	597	672	358	304	763	794	848	643	545	466
Bachelors	6061	5721	5831	5980	5680	6026	5786	6077	6063	6237	6660	6795	7044	7392	7634	7743	7742	8295
Assoc degrees & advanced diplomas	140	122	104	101	94	83	133	175	278	320	327	518	479	523	570	518	493	541
Diplomas	27	54	52	23	47	35	73	60	60	109	130	141	152	264	239	285	291	278
Other undergraduate	112	292	212	444	173	221	160	0	0	0	406	398	0	0	0	26	0	0
Total	7856	7686	7843	8175	7578	8001	7941	8164	8367	8935	9424	9896	10461	11074	11545	11501	11403	11915
Overseas																		
Doctoral	97	99	109	151	185	208	253	184	226	318	385	457	579	696	656	755	780	796
Research masters	60	41	46	73	75	126	95	101	86	97	121	112	113	115	121	128	121	129
Coursework masters	916	1071	1716	1942	2299	1830	1900	2188	2346	2660	2785	2259	2403	2712	3205	3864	4758	6473
Other postgraduate	108	150	145	119	193	238	212	241	241	279	219	145	219	164	160	137	136	111
Bachelors	1658	1748	1997	2220	2396	2343	2290	2584	2589	2912	3321	3466	3974	3981	3483	3818	4301	4692
Assoc degrees & advanced diplomas	16	19	12	14	21	10	25	71	91	94	56	143	138	97	129	127	165	158
Diplomas	1	17	23	44	28	85	268	316	236	295	404	360	399	711	790	1024	1036	1031
Other undergraduate	1	5	52	12	18	33	10	16	18	0	113	72	0	0	0	41	63	55
Total	2857	3150	4100	4575	5215	4873	5053	5701	5833	6655	7405	7016	7825	8476	8544	9894	11360	13445
All student completions																		
Doctoral	421	481	531	574	638	696	774	697	708	792	785	952	1115	1268	1259	1358	1417	1437
Research masters	207	188	194	223	208	265	230	228	185	196	219	212	245	218	229	244	226	222
Coursework masters	1552	1695	2379	2587	2934	2406	2586	2878	3134	3684	3830	3404	3758	4138	4748	5431	6348	8074
Other postgraduate	517	484	556	528	556	665	659	763	838	951	577	449	982	958	1008	780	681	577
Bachelors	7719	7469	7828	8200	8076	8369	8076	8661	8652	9149	9981	10261	11018	11373	11117	11561	12043	12987
Assoc degrees & advanced diplomas	156	141	116	115	115	93	158	246	369	414	383	661	617	620	699	645	658	699
Diplomas	28	71	75	67	75	120	341	376	296	404	534	501	551	975	1029	1309	1327	1309
Other undergraduate	113	297	264	456	191	254	170	16	18	0	519	470	0	0	0	67	63	55
Total	10713	10836	11943	12750	12793	12874	12994	13865	14200	15590	16829	16912	18286	19550	20089	21395	22763	25360

Source: Data provided by DET

6 State and territory outcomes

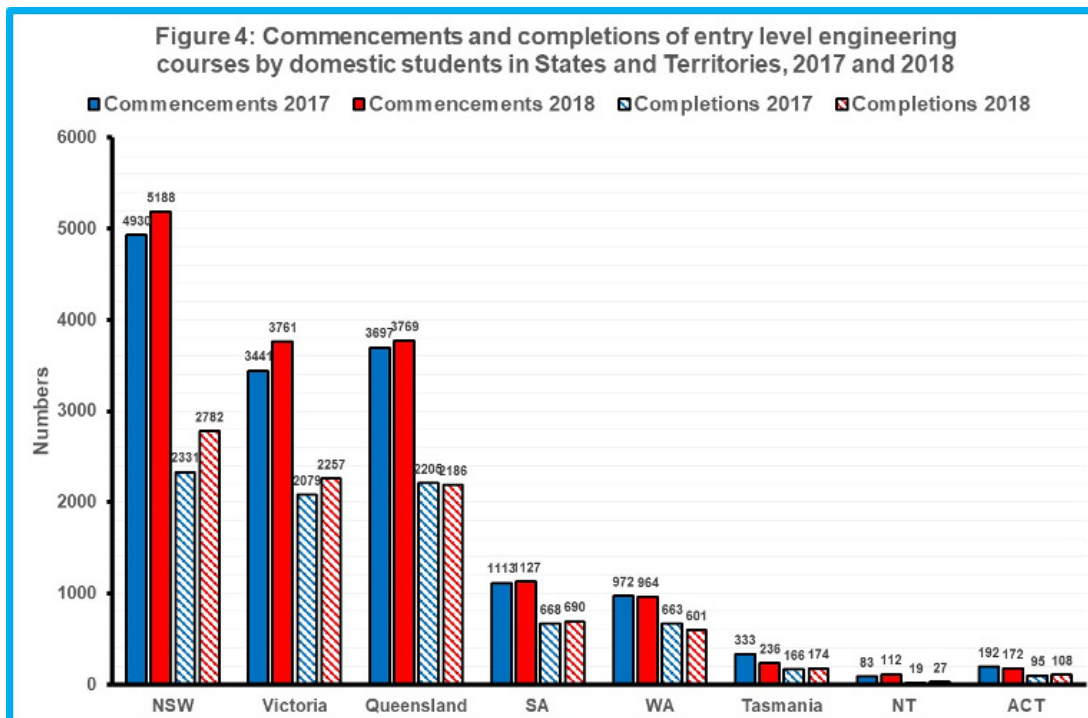
Statistics on commencements and completions in engineering courses for both domestic and overseas students are reported for each state and territory in the Appendix. This chapter describes some important features of the jurisdictional distribution.

6.1 DOMESTIC STUDENTS IN ENTRY LEVEL COURSES

The distribution of domestic student commencements and completions in 2017 and 2018 entry level courses in engineering is illustrated in Figure 4. Commencements increased in six of the eight jurisdictions and the falls recorded in Western Australia and the Australian Capital Territory were small enough to treat as static. In 2018, 82.9% of commencements occurred in the three largest states, NSW, Victoria and Queensland; 13.7% occurred in South and Western Australia and 3.3% occurred in Tasmania and the two territories.

Completions of entry level courses by domestic students also increased in six jurisdictions with the exceptions being Queensland and Western Australia. Readers are advised against treating the ratio of completions to commencements as an indicator of program success.

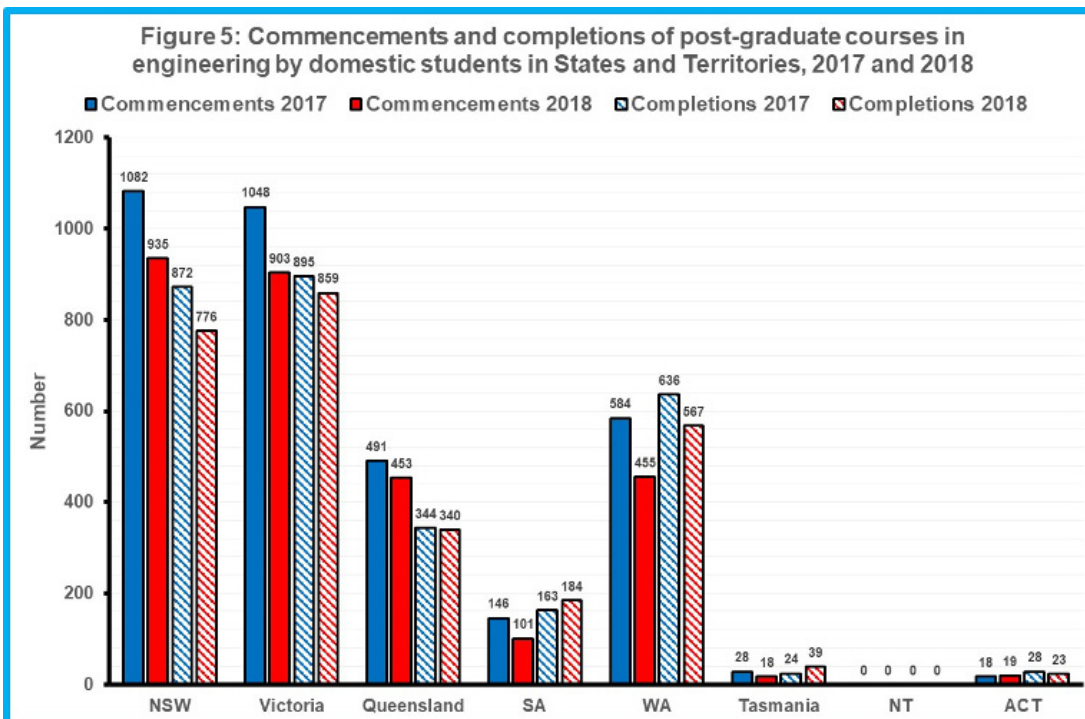
Many factors influence this ratio including whether students attend full time or part time, students switching from full to part time or the reverse, students transferring in or out of engineering to other areas of study and course duration (two-year, three-year, four year and four year plus for double degrees). The distribution of completions is very similar to that of commencements.



6.2 DOMESTIC STUDENTS IN POST-GRADUATE COURSES

Commencements and completions of post-graduate courses in engineering by domestic students in states and territories is illustrated in Figure 5.

Commencements fell in every jurisdiction, but completions increased in South Australia and Tasmania while falling in the other jurisdictions. The proportion of completions in the three largest jurisdictions was 70.8%, somewhat lower than the proportion of commencements. Proportionally, commencements and completions are high in Victoria where some universities have shifted to the bachelor/master's format for entry level courses. Commencements and completions were much higher in Western Australia compared to Queensland.



6.3 OVERSEAS STUDENTS IN ENTRY LEVEL COURSES

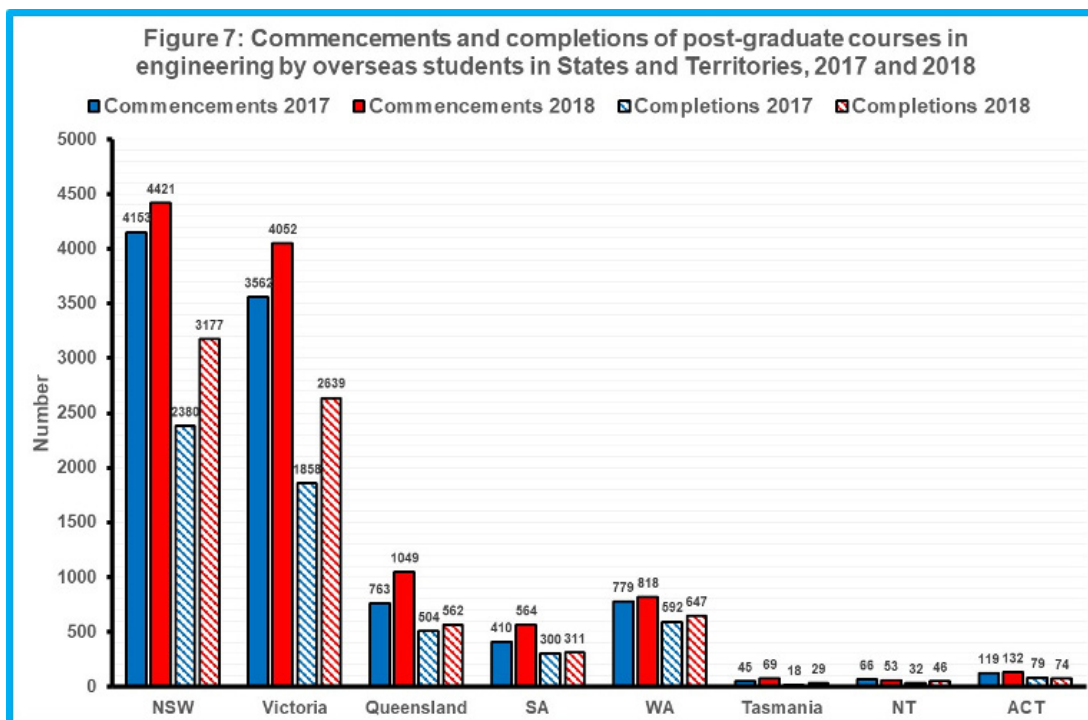
The distribution of overseas students in entry level courses supports the view that all states and territories are actively engaged in the export of engineering entry level education services. The distribution is heavily skewed towards NSW and Victoria which account for 71.8% of commencements (compared to 58.3% of domestic commencements) and 73.6% of completions and 64.6% of completions (compared to 57.1% of domestic completions).

Proportionally, the smaller jurisdictions have higher shares of overseas entry level students than domestic students in these courses.

6.4 OVERSEAS STUDENTS IN POST-GRADUATE COURSES

Figure 7 illustrates the distribution of commencements and completions of post-graduate courses in engineering by overseas students.

There is a pronounced skew in both distributions towards NSW and Victoria. These states accounted for 75.9% of post graduate course commencements by overseas students and 74.1% of course completions. The bulk of completions are coursework master's degree (79.4% of national completions) but the two states also accounted for 531 completions of doctoral programs by overseas students (66.7% of national completions) compared to 376 completions of doctoral programs by domestic students.



The statistics suggest that several jurisdictions, particularly NSW and Victoria, have made concerted efforts to increase the numbers of overseas students in engineering courses. While the largest increases have been in coursework master's programs, the numbers in entry level courses have also increased substantially.

7 Increasing the supply of engineers

Completions of entry level courses in engineering by domestic students is the main source of “home-grown” increases in the supply of qualified engineers in Australia. Although the advent of on-shore migration visas has enabled some engineering organisations to effectively recruit the best overseas students completing both entry and post-graduate courses, these students still need to be processed through the migration system and are counted there.

This section examines the potential increase in the supply of engineers from completions of entry level courses by domestic students. The statistics are organised according to the three components of the engineering team (professional engineers, engineering technologists and associate engineers) and the main specialisations in engineering education. Because universities vary in the way they report completions year to year, specialisations are reported at broad level to avoid discontinuities in time series.

While the type of entry level degree shapes engineering specialisations, actual specialisation occurs during professional formation. Like other areas of professional study, engineers undertake a period of professional formation upon graduation. In the case of engineering, professional formation is an on-the-job process that relies on the ability of graduates finding jobs in engineering. Statistics on numbers completing professional formation are unavailable necessitating recourse to the statistics discussed in this section for insights into how the profession is developing.

TAFE colleges also conduct courses that lead to advanced diplomas in engineering which qualify individuals to become associate engineers. Updated statistics for the completions of these courses have not been obtained.

7.1 ENGINEERING TECHNOLOGISTS

Engineering technologists complete three-year, full-time degrees in engineering. Completions of these qualifications by domestic students are shown in Table 10. These degrees have not been as popular as four-year degrees in engineering and the number of graduates has remained comparatively low. In 2001, there were 629 completions; these increased to a peak of 847 in 2006 but fell suddenly in 2007 to 599. Since then the number of graduates has fluctuated between 500 and 600, occasionally higher. In 2018, there were 578 completions, an increase of 6.1% over the previous year.

Historically, there were relatively large numbers of graduates in electrical and electronic engineering, but numbers in this field have dwindled over the years and there were few completions in the main engineering streams of mechanical, civil and electrical engineering. Most completions have been in aerospace engineering which in 2018 accounted for 282 or 48.8% of completions. This result is difficult to evaluate because “other engineering and technology” accounted for 172 or 29.8% of graduates.

On average, 18.9% of completions have been by women. This share has been as high as 25.3% in 2010, but in 2017 it had fallen back to 16.5%.

Since 2001, there have been 10,591 completions of three-year degrees in engineering; 8,617 by men and 1,974 by women. From 2010, these numbers have been 4,800 completions; 3,851 by men and 949 by women.

7.2 PROFESSIONAL ENGINEERS

There are several routes whereby individuals can become professional engineers. The most straight forward way is the completion of a four-year, full time degree in engineering. The statistics in Table 11 relate to this route.

Some students study engineering in conjunction with another discipline in a double degree program which the Department of Education and Training characterises as engineering degrees greater than four years in duration. The statistics relevant to this route are in Table 12. The third route has been dubbed the “Melbourne” option and comprises a three-year bachelor’s degree in science, mathematics, commerce or law followed by a coursework master’s degree in engineering. As noted, earlier statistics on these courses are not differentiated from more conventional coursework master’s programs that are undertaken following the completion of a four-year bachelor’s degree in engineering. In other words, distinct statistics for completions in this route are unavailable and are included in the post-graduate completion statistics presented in Table 3.

Between 2001 and 2006, annual completions of four-year bachelor’s degrees in engineering contracted by an average 2.0% per year. Over the 12 years to 2018 annual completions grew by an average 3.2% per year, including two years of contraction, in 2010 and again in 2017. In 2018, completions grew by 4.4% to 5,359. Cumulatively since 2001, 79,878 four-year degrees in engineering have been completed by domestic students; 68,696 by men and 11,182 by women. From 2010 onwards 38,193 men and 5,823 women have completed four-year degrees in engineering for 44,016 overall.

Understanding the engineering specialisations of these degree completions is impeded by the way universities have allocated statistics to the ABS Australian Standard Classification of Education (ASCED) codes and used by the Department of Education and Training. Large numbers of completions are allocated to “engineering and related technologies not further defined” and “other engineering and related technologies”. In 2018, these categories accounted for 18.9% and 20.0%, respectively of completions. This is not a recent practice but has been present at similar scale in all the tabulated statistics. Some of these completions may well be in the specialisations discussed below. Cumulatively, little is known about the specialisations of 24,391 completions since 2001.

Moving beyond this qualification, in 2018 the largest number of completions was in civil engineering with 1,117 completions of whom 14.3% were women. This level of completions matches 2015 but was less than the record number 1,278 in 2016. Since 2001, there have been 15,383 completions in civil engineering; 13,180 men and 2,203 women. From 2010 onwards cumulation completions have been 9,311; 8,038 women and 1,273 women.

The second largest group of completions was in electrical and electronic engineering which has 703 completions in 2018; 644 men and 59 women. This level of completions could see reversal of a falling trend. The peak in completions, 1,317, occurred in 2003 and numbers fell rapidly over the next six years plateauing through to 2017. Cumulatively since 2011, there have been 14,320 electrical and electronic engineering completions; 12,801 by men and 1,519 by women. From 2010 onwards these cumulative figures were 5,006, 4,562 and 444, respectively.

In 2018, there were 657 mechanical and industrial engineering completions. Numbers in this group have plateaued since 2011. Cumulatively since 2001 there have been 11,189 completions; 10,289 by men and 51 by women. From 2010 onwards these cumulative figures were 5,841, 5,403 and 438, respectively.

Other completions were 313 in resource and processing engineering, down from 404 in 2017; there were 198 in aerospace engineering, an increase from 177 in 2017. There were smaller numbers in manufacturing engineering with 60 and maritime engineering with 54.

Since 2001, on average, 14.1% of annual completions of four-year degrees in engineering have been by women. In 2018, this share was 13.7%. The highest proportion of completions by women was 16.9% in 2001.

Across all areas of specialisation since 2001 there have been 79,878 completions of four-year degrees in

engineering; 68,696 by men and 11,182 by women. From 2010 onwards these figures have been 44,016 total completions, 38,193 by men and 5,823 by women.

7.3 ENGINEERING DEGREES GREATER THAN FOUR YEARS IN DURATION

Statistics for completions of these degrees, generally double degrees, are shown in Table 12. In 2018, there were 1,966 completions up from 1,752 in 2017. The peak in completions occurred in 2015 when there were 2,022.

The proportion of completions in the two general categories discussed above was much higher for these degrees; 72.0% compared to 38.9% for four-year degree completions. The balance of completions was distributed in a pattern similar to, but with lower shares, to completions of four-year degrees.

The proportion of women completing double degrees has on average been higher than for four-year degrees; 18.2% compared to 13.7%. In 2018 the proportion of women was 18.4%.

Cumulatively since 2001 there have been 28,147 completions; 23,034 by men and 5,113 by women. From 2010 onwards there have been 15,935 completions; 13,065 by men and 2,870 by women.

7.4 DEGREE QUALIFIED ENGINEERS

Table 13 aggregates the completions in Tables 10 to 12 into statistics on the completion of degrees in engineering irrespective of course duration. In 2018 there were 7,903 degree completions, an increase of 474 or 6.4% over 2017. Cumulatively since 2001, there have been 118,737 completions of degrees in engineering; 100,446 by men and 18,291 by women. Many of these graduates are now less than 40 years of age. Over this period 15.4% of completions were by women. From 2010 onwards there have been 64,752 completions of degrees in engineering; 55,111 by men and 9,641 by women. The average proportion of women over this period was 14.9%.

7.5 ASSOCIATE ENGINEERS

The final set of statistics in Table 14 covers completions of associate degrees and advanced diplomas in engineering from Australian universities. These are not the only courses offering these qualifications, others are offered by TAFE colleges, but statistics for these completions are not yet available.

Completions of these qualifications have increased from 135 in 2001 to 541 in 2017, but this still remains the smallest component of university engineering education. In 2018, 417 or 77.1% of completions were in the two generic classifications discussed above. There are few completions in the main engineering specialisations; there were 42 associate completions in civil engineering, 38 in electrical and electronic engineering, 27 in aerospace engineering and just 9 in mechanical engineering.

Few women undertake these courses and in 2018 there were only 48 completions by women, 8.9% of the total.

Table 10: Domestic Students Completing Three Year Bachelors Degrees in Engineering

ASCED	Specialisation	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
0300	Engineering & Related Technologies	66	59	64	62	63	59	45	54	42	20	16	9	8	10	12	30	8
0301	Manufacturing Engineering & Technology	18	14	3	3	5	4	5	0	<5	<5	<5	<5	6	<5	0	0	0
0303	Process & Resource Engineering	43	27	32	18	19	54	19	23	23	17	24	15	16	16	28	10	7
0305	Automotive Engineering & Technology	0	0	0	0	0	0	0	1	9	<5	6	<5	<5	<5	0	<5	6
0307	Mechanical & Industrial Engineering & Technology	34	49	30	21	22	35	9	13	<5	6	6	5	<5	<5	0	12	20
0309	Civil Engineering	14	13	7	19	23	39	13	18	12	5	<5	0	<5	<5	<5	0	0
0311	Geomatic Engineering	42	65	75	48	23	22	17	18	26	16	31	24	22	32	<5	<5	<5
0313	Electrical & Electronic Engineering & Technology	124	106	102	110	159	203	130	112	73	61	31	28	23	12	12	22	27
0315	Aerospace Engineering & Technology	79	102	111	109	147	175	140	171	130	127	139	189	196	245	180	217	208
0317	Maritime Engineering & Technology	2	3	4	2	6	0	2	1	<5	<5	<5	<5	<5	25	26	9	29
0399	Other Engineering & Technology	109	102	96	96	94	100	110	91	115	84	115	142	119	142	154	135	128
03	Total	531	540	524	488	561	691	490	502	439	346	377	419	400	488	415	465	455

Women

0300	Engineering & Related Technologies	18	4	12	7	15	3	7	1	<5	5	<5	0	<5	<5	<5	<5	<5
0301	Manufacturing Engineering & Technology	2	3	5	4	13	10	8	23	29	44	43	29	56	81	<5	<5	<5
0303	Process & Resource Engineering	18	20	14	10	<10	31	12	20	10	7	7	11	<5	10	9	6	8
0305	Automotive Engineering & Technology	0	0	0	0	0	0	0	0	<5	0	0	0	0	0	0	0	0
0307	Mechanical & Industrial Engineering & Technology	3	3	2	1	2	2	1	1	0	0	0	0	0	0	0	0	<5
0309	Civil Engineering	0	2	4	0	4	12	0	<10	0	0	0	0	0	0	0	0	0
0311	Geomatic Engineering	10	24	16	17	12	14	9	12	11	5	9	<5	5	<5	<5	<5	0
0313	Electrical & Electronic Engineering & Technology	12	9	6	18	52	41	34	24	29	21	13	8	5	<5	<5	<5	<5
0315	Aerospace Engineering & Technology	14	22	19	23	28	29	31	39	25	25	32	31	28	41	39	47	47
0317	Maritime Engineering & Technology	1	1	0	0	1	0	0	0	0	0	0	0	<5	0	<5	<5	<5
0399	Other Engineering & Technology	20	13	10	8	7	14	5	9	7	10	11	15	14	19	24	19	24
03	Total	98	101	88	88	139	156	109	130	116	117	117	99	112	155	82	85	90

All domestic graduations

0300	Engineering & Related Technologies	84	63	76	69	78	62	52	55	46	25	18	9	9	11	12	30	8
0301	Manufacturing Engineering & Technology	20	17	8	7	18	14	13	23	30	48	47	31	62	83	0	0	0
0303	Process & Resource Engineering	61	47	46	28	19	85	31	43	33	24	31	26	19	26	37	16	15
0305	Automotive Engineering & Technology	0	0	0	0	0	0	0	1	10	<5	6	<5	<5	<5	0	0	6
0307	Mechanical & Industrial Engineering & Technology	37	52	32	22	24	37	10	14	<5	6	6	5	<5	<5	0	12	20
0309	Civil Engineering	14	15	11	19	27	51	13	18	12	5	<5	0	<5	<5	0	0	0
0311	Geomatic Engineering	52	89	91	65	35	36	26	30	37	21	40	28	27	34	0	0	0
0313	Electrical & Electronic Engineering & Technology	136	115	108	128	211	244	164	136	102	82	44	36	28	13	12	22	27
0315	Aerospace Engineering & Technology	93	124	130	132	175	204	171	210	155	152	171	220	224	286	219	264	255
0317	Maritime Engineering & Technology	3	4	4	2	7	0	2	1	<5	<5	<5	<5	<5	25	26	9	29
0399	Other Engineering & Technology	129	115	106	104	101	114	115	100	122	94	126	157	133	161	178	154	152
03	Total	629	641	612	576	700	847	599	632	555	463	494	518	512	643	497	550	545

Source: Data supplied by DET

Note: Cells <5 are the result of the Department's confidentiality policy and do not add into totals. Totals are correct.

Table 11: Domestic Students Completing Four Year Bachelors Degrees in Engineering

ASCED	Specialisation	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
0300	Engineering & Related Technologies	98	134	90	59	215	246	286	273	356	321	545	638	682	758	761	731	706
0301	Manufacturing Engineering & Technology	13	10	16	23	19	17	21	12	8	< 5	< 5	< 5	12	28	25	27	49
0303	Process & Resource Engineering	410	332	285	319	281	271	346	378	413	441	401	355	367	333	330	301	301
0305	Automotive Engineering & Technology	0	0	0	3	19	20	22	22	28	28	19	21	20	16	8	16	24
0307	Mechanical & Industrial Engineering & Technology	503	556	528	553	475	527	574	610	560	567	599	596	631	554	624	622	604
0309	Civil Engineering	585	574	554	502	488	448	573	706	712	746	845	803	849	873	956	1079	930
0311	Geomatic Engineering	118	113	94	117	113	120	128	121	106	90	79	88	71	80	6	< 5	< 5
0313	Electrical & Electronic Engineering & Technology	1007	992	1136	1111	1062	796	811	703	621	535	456	490	476	468	516	446	531
0315	Aerospace Engineering & Technology	124	118	117	151	169	130	165	190	158	172	176	187	176	185	177	134	159
0317	Maritime Engineering & Technology	11	12	2	23	11	23	13	16	14	10	24	19	36	20	50	92	57
0399	Other Engineering & Technology	540	472	450	441	458	581	478	617	677	715	801	861	866	964	984	1023	944
03	Total	3409	3313	3272	3302	3310	3179	3417	3648	3653	3626	3945	4061	4186	4279	4437	4598	4436

Women

0300	Engineering & Related Technologies	9	26	23	11	46	34	41	36	44	54	77	133	127	134	96	90	110
0301	Manufacturing Engineering & Technology	5	3	5	2	2	3	5	0	-	< 5	0	0	< 5	< 5	< 5	< 5	< 5
0303	Process & Resource Engineering	135	137	128	126	99	98	106	110	116	120	123	104	110	105	87	97	103
0305	Automotive Engineering & Technology	0	0	0	0	0	2	< 10	0	< 5	< 5	< 5	< 5	0	0	< 5	0	< 5
0307	Mechanical & Industrial Engineering & Technology	56	57	66	58	44	32	43	51	55	48	50	47	46	47	49	46	54
0309	Civil Engineering	140	122	90	98	89	81	88	102	120	94	134	122	114	145	161	199	144
0311	Geomatic Engineering	22	20	15	29	18	23	13	22	18	12	10	< 5	5	5	8	< 5	< 5
0313	Electrical & Electronic Engineering & Technology	140	143	181	180	150	101	79	53	48	49	44	44	44	43	42	56	63
0315	Aerospace Engineering & Technology	19	24	23	20	30	16	18	24	15	21	29	21	19	20	20	22	18
0317	Maritime Engineering & Technology	0	0	0	1	0	1	0	2	-	< 5	0	0	< 5	5	5	5	< 5
0399	Other Engineering & Technology	169	124	132	111	126	137	112	123	135	140	129	150	160	152	170	179	192
03	Total	691	656	663	636	604	528	506	523	552	542	595	624	627	659	641	705	696

All domestic graduations

0300	Engineering & Related Technologies	107	160	113	70	261	280	327	309	400	375	622	771	809	892	857	821	816
0301	Manufacturing Engineering & Technology	18	13	21	25	21	20	26	12	8	< 5	< 5	< 5	13	31	25	27	49
0303	Process & Resource Engineering	545	469	413	445	380	369	452	488	529	561	524	459	477	438	417	398	404
0305	Automotive Engineering & Technology	0	0	0	3	19	22	22	22	29	30	20	22	20	16	8	16	24
0307	Mechanical & Industrial Engineering & Technology	559	613	594	611	519	559	617	661	615	615	649	643	677	601	673	668	658
0309	Civil Engineering	725	696	644	600	577	529	661	808	832	840	979	925	963	1018	1117	1278	1074
0311	Geomatic Engineering	140	133	109	146	131	143	141	143	124	102	89	92	76	85	14	0	0
0313	Electrical & Electronic Engineering & Technology	1147	1135	1317	1291	1212	897	890	756	669	584	500	534	520	511	558	502	594
0315	Aerospace Engineering & Technology	143	142	140	171	199	146	183	214	173	193	205	208	195	205	197	156	177
0317	Maritime Engineering & Technology	11	12	2	24	11	24	13	18	14	11	24	19	37	25	55	97	57
0399	Other Engineering & Technology	709	596	582	552	584	718	590	740	812	855	930	1011	1026	1116	1154	1202	1136
03	Total	4100	3969	3935	3938	3914	3707	3923	4171	4205	4168	4540	4685	4813	4938	5078	5393	5132

Source: Data supplied by DET

Note: Cells <5 are the result of the Department's confidentiality policy and do not add into totals. Totals are correct.

Table 12: Domestic Students Completing Four Year Double Bachelors Degrees in Engineering

ASCED	Specialisation	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
0300	Engineering & Related Technologies	136	162	261	320	481	372	375	400	406	502	495	488	561	594	649	563	649
0301	Manufacturing Engineering & Technology	27	28	28	40	2	-	13	11	22	52	32	26	15	17	9	11	8
0303	Process & Resource Engineering	63	129	120	151	83	132	124	128	130	130	146	143	149	102	108	128	172
0305	Automotive Engineering & Technology	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	<5	<5
0307	Mechanical & Industrial Engineering & Technology	207	126	125	115	64	76	89	82	100	146	131	92	88	117	132	126	157
0309	Civil Engineering	135	75	126	102	86	66	74	87	86	142	171	134	211	184	202	230	206
0311	Geomatic Engineering	22	<10	<10	12	<10	6	<10	5	<5	9	15	10	9	8	0	0	0
0313	Electrical & Electronic Engineering & Technology	388	252	271	337	320	325	298	182	132	146	114	88	114	123	122	152	175
0315	Aerospace Engineering & Technology	26	14	2	30	36	61	37	49	48	59	36	63	59	75	52	56	52
0317	Maritime Engineering & Technology	0	0	0	0	0	0	0	0	0	0	0	<5	31	17	29	16	12
0399	Other Engineering & Technology	141	146	140	172	161	221	199	199	195	200	184	310	282	324	326	359	380
03	Total	1100	900	1051	1215	1195	1192	1165	1082	1069	1348	1324	1355	1519	1562	1629	1292	1432

Women

0300	Engineering & Related Technologies	30	28	51	49	117	79	73	69	74	88	79	70	93	90	154	99	124
0301	Manufacturing Engineering & Technology	2	4	3	4	0	0	1	0	<5	<5	<5	<5	<5	0	<5	0	<5
0303	Process & Resource Engineering	24	55	28	55	33	64	69	52	33	34	60	52	54	49	59	58	66
0305	Automotive Engineering & Technology	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0307	Mechanical & Industrial Engineering & Technology	37	21	19	22	13	15	19	13	26	24	24	15	11	25	26	30	20
0309	Civil Engineering	30	23	30	22	27	22	28	19	23	36	39	42	48	44	50	49	57
0311	Geomatic Engineering	<10	0	0	<10	<10	0	0	-	0	6	<5	<5	<5	<5	0	0	0
0313	Electrical & Electronic Engineering & Technology	56	43	56	61	45	40	24	22	25	14	17	20	12	19	13	13	13
0315	Aerospace Engineering & Technology	<10	<10	<10	<10	<10	9	<10	12	13	8	6	10	10	9	5	15	11
0317	Maritime Engineering & Technology	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5	0	0
0399	Other Engineering & Technology	62	45	66	59	52	70	67	72	46	53	66	103	81	111	83	120	114
03	Total	238	211	233	251	275	280	274	247	234	258	297	311	311	349	393	269	320

All domestic graduations

0300	Engineering & Related Technologies	166	190	312	369	598	451	448	469	480	590	574	558	654	684	803	662	773
0301	Manufacturing Engineering & Technology	29	32	31	44	2	-	14	11	26	55	35	29	16	17	9	11	8
0303	Process & Resource Engineering	87	184	148	206	116	196	193	180	163	164	211	185	203	151	167	186	238
0305	Automotive Engineering & Technology	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	0
0307	Mechanical & Industrial Engineering & Technology	244	147	144	137	77	91	108	95	126	170	160	107	99	142	158	156	177
0309	Civil Engineering	165	98	156	124	113	88	102	106	109	178	213	176	259	228	252	279	263
0311	Geomatic Engineering	22	0	0	12	0	6	0	5	<5	15	22	11	10	9	0	0	0
0313	Electrical & Electronic Engineering & Technology	444	295	327	398	365	365	322	204	157	160	131	108	126	142	135	165	188
0315	Aerospace Engineering & Technology	26	14	2	30	36	70	37	61	61	67	46	73	69	84	57	71	63
0317	Maritime Engineering & Technology	0	0	0	0	0	0	0	0	0	0	0	<5	31	18	29	16	12
0399	Other Engineering & Technology	203	191	206	231	213	291	266	271	241	253	292	413	363	435	409	479	494
03	Total	1338	1111	1284	1466	1470	1472	1439	1329	1303	1606	1621	1686	1830	1911	2022	1561	1752

Source: Data supplied by DET

Note: Cells <5 are the result of the Department's confidentiality policy and do not add into totals. Totals are correct.

Table 13: Domestic Students Completing Bachelors Degrees in Engineering irrespective of Durations

Men	ASCED	Specialisation	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
	0300	Engineering & Related Technologies	300	355	415	441	759	677	706	732	804	843	1056	1135	1251	1362	1422	1324	1363
	0301	Manufacturing Engineering & Technology	49	37	40	51	45	41	52	24	16	0	0	0	31	59	50	54	98
	0303	Process & Resource Engineering	516	488	437	488	383	457	489	537	566	588	571	513	532	451	466	439	480
	0305	Automotive Engineering & Technology	0	0	0	3	19	20	22	23	37	28	25	21	20	16	8	16	30
	0307	Mechanical & Industrial Engineering & Technology	744	731	683	689	561	638	672	721	660	719	736	693	719	671	756	760	781
	0309	Civil Engineering	734	662	687	623	597	553	660	828	810	893	1016	937	1060	1057	1158	1309	1136
	0311	Geomatic Engineering	182	178	169	177	136	142	145	139	132	115	125	122	102	120	6	0	0
	0313	Electrical & Electronic Engineering & Technology	1519	1350	1509	1558	1541	1324	1239	1027	826	742	601	606	613	603	650	620	733
	0315	Aerospace Engineering & Technology	229	234	230	290	352	341	342	415	336	358	351	439	431	505	409	407	419
	0317	Maritime Engineering & Technology	13	15	6	25	17	23	15	17	14	10	24	19	67	62	105	117	98
	0399	Other Engineering & Technology	790	720	686	709	713	902	787	923	987	999	1100	1313	1267	1430	1464	1517	1452
	03	Total	5040	4753	4847	5005	5066	5062	5072	5329	5161	5320	5646	5835	6105	6331	6481	6355	6323

Women	ASCED	Specialisation	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
	0300	Engineering & Related Technologies	57	58	86	67	178	116	121	111	118	147	156	203	220	224	250	189	234
	0301	Manufacturing Engineering & Technology	9	10	13	10	15	13	14	23	29	44	43	29	56	81	0	0	0
	0303	Process & Resource Engineering	177	212	170	191	132	193	187	187	159	161	190	167	164	164	155	161	177
	0305	Automotive Engineering & Technology	0	0	0	0	0	2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	0307	Mechanical & Industrial Engineering & Technology	96	81	87	81	59	49	63	66	81	72	74	62	57	72	75	76	74
	0309	Civil Engineering	170	147	124	120	120	115	116	124	143	130	173	164	162	189	211	248	201
	0311	Geomatic Engineering	32	44	31	46	30	37	22	34	29	23	19	0	10	5	8	0	0
	0313	Electrical & Electronic Engineering & Technology	208	195	243	259	247	182	137	103	102	84	74	72	61	62	55	69	76
	0315	Aerospace Engineering & Technology	33	46	42	43	58	45	49	77	53	54	67	62	57	70	64	84	76
	0317	Maritime Engineering & Technology	1	1	0	1	1	1	0	2	0	0	0	0	0	5	5	5	0
	0399	Other Engineering & Technology	251	182	208	178	185	221	184	207	188	203	206	268	255	282	277	318	330
	03	Total	1027	968	984	975	1018	964	889	923	902	917	1009	1034	1050	1162	1116	1059	1106

All domestic graduations

	0300	Engineering & Related Technologies	357	413	501	508	937	793	827	843	926	990	1214	1338	1472	1587	1672	1513	1597
	0301	Manufacturing Engineering & Technology	67	62	60	76	41	34	53	46	64	103	82	60	91	131	34	38	57
	0303	Process & Resource Engineering	693	700	607	679	515	650	676	724	725	749	766	670	699	615	621	600	657
	0305	Automotive Engineering & Technology	0	0	0	3	19	22	22	23	39	30	26	22	20	16	8	16	30
	0307	Mechanical & Industrial Engineering & Technology	840	812	770	770	620	687	735	787	741	791	815	755	776	743	831	836	855
	0309	Civil Engineering	904	809	811	743	717	668	776	952	953	1023	1192	1101	1222	1246	1369	1557	1337
	0311	Geomatic Engineering	214	222	200	223	166	179	167	173	161	138	151	131	113	128	14	0	0
	0313	Electrical & Electronic Engineering & Technology	1727	1545	1752	1817	1788	1506	1376	1130	928	826	675	678	674	666	705	689	809
	0315	Aerospace Engineering & Technology	262	280	272	333	410	386	391	492	389	412	422	501	488	575	473	491	495
	0317	Maritime Engineering & Technology	14	16	6	26	18	24	15	19	14	11	24	19	68	68	110	122	98
	0399	Other Engineering & Technology	1041	902	894	887	898	1123	971	1130	1175	1202	1348	1581	1522	1712	1741	1835	1782
	03	Total	6067	5721	5831	5980	6084	6026	5961	6252	6063	6237	6655	6869	7155	7493	7597	7414	7429

Source: Data supplied by DE

Note: Cells <5 are the result of the Department's confidentiality policy and do not add into totals. Totals are correct.

Table 14: Domestic Students Completing Associate Degrees and Advanced Diplomas in Engineering at Universities

Men	ASCED	Specialisation	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
	0300	Engineering & Related Technologies	13	11	<10	13	14	<10	11	20	24	35	55	65	33	61	65	60	38
	0301	Manufacturing Engineering & Technology	<10	<10	<10	0	0	0	0	0	0	0	0	0	0	<5	<5	0	0
	0303	Process & Resource Engineering	0	0	0	13	0	0	0	0	<5	<5	<5	<5	<5	5	<5	<5	0
	0305	Automotive Engineering & Technology	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0307	Mechanical & Industrial Engineering & Technology	14	21	10	<10	<10	<10	<10	<10	14	16	<5	57	64	61	36	8	8
	0309	Civil Engineering	18	15	13	<10	12	<10	<10	<10	<5	11	24	83	149	152	102	44	52
	0311	Geomatic Engineering	14	<10	15	<10	<10	<10	<10	<10	0	<5	0	0	0	<5	0	0	0
	0313	Electrical & Electronic Engineering & Technology	21	24	14	15	13	10	11	11	7	16	10	14	40	28	25	7	26
	0315	Aerospace Engineering & Technology	24	<10	<10	0	0	0	0	0	27	5	18	17	34	19	15	9	21
	0317	Maritime Engineering & Technology	<10	16	22	26	32	31	28	24	32	33	46	48	<5	<5	<5	<5	<5
	0399	Other Engineering & Technology	22	11	<10	<10	<10	22	51	82	148	166	142	189	115	117	265	358	311
		Total	135	122	90	92	87	83	121	155	254	285	300	475	437	445	515	488	457

Women	0300	Engineering & Related Technologies	0	0	0	<10	0	0	<10	<10	0	<5	<5	5	<5	6	<5	8	6
	0301	Manufacturing Engineering & Technology	0	0	<10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0303	Process & Resource Engineering	0	0	0	0	0	0	0	0	<5	0	0	0	<5	<5	0	0	0
	0305	Automotive Engineering & Technology	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0307	Mechanical & Industrial Engineering & Technology	0	<10	0	<10	0	0	0	0	<5	0	0	<5	0	<5	<5	<5	0
	0309	Civil Engineering	<10	<10	<10	<10	<10	<10	0	0	<5	0	<5	11	14	15	13	8	<5
	0311	Geomatic Engineering	<10	<10	<10	<10	0	0	<10	0	0	0	0	0	0	0	0	0	0
	0313	Electrical & Electronic Engineering & Technology	0	<10	<10	<10	<10	0	0	0	0	<5	0	<5	<5	<5	<5	<5	<5
	0315	Aerospace Engineering & Technology	<10	<10	0	0	0	0	<10	0	<5	<5	0	0	<5	6	<5	0	<5
	0317	Maritime Engineering & Technology	<10	<10	<10	0	<10	<10	<10	<10	<5	<5	<5	<5	0	0	0	0	0
	0399	Other Engineering & Technology	0	<10	<10	0	<10	<10	16	16	16	27	22	20	17	25	28	31	23
		Total	<10	<10	14	<10	<10	<10	12	20	24	35	27	40	35	58	50	55	36

All domestic graduations	0300	Engineering & Related Technologies	13	11	0	13	14	0	11	20	24	38	57	70	37	67	65	68	44
	0301	Manufacturing Engineering & Technology	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	0
	0303	Process & Resource Engineering	0	0	0	13	0	0	0	0	<5	<5	<5	2	<5	6	0	0	0
	0305	Automotive Engineering & Technology	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0307	Mechanical & Industrial Engineering & Technology	14	21	10	0	0	0	0	0	16	16	<5	59	64	65	36	8	8
	0309	Civil Engineering	18	15	13	0	12	0	0	0	<5	11	26	94	163	167	115	52	52
	0311	Geomatic Engineering	14	0	15	0	0	0	0	0	0	<5	0	0	0	<5	0	0	0
	0313	Electrical & Electronic Engineering & Technology	21	24	14	15	13	10	11	11	7	17	10	15	41	29	25	7	26
	0315	Aerospace Engineering & Technology	24	0	0	0	0	0	0	0	30	6	18	17	36	25	15	9	21
	0317	Maritime Engineering & Technology	0	16	22	26	32	31	28	24	33	36	47	49	<5	<5	0	0	0
	0399	Other Engineering & Technology	22	11	0	0	0	22	51	98	164	193	164	209	132	142	293	389	334
		Total	135	122	104	92	87	83	133	175	278	320	327	515	471	503	565	543	493

Source: Data supplied by DE

Note: Cells <5 are the result of the Department's confidentiality policy and do not add into totals. Totals are correct.

7.6 IMPACT ON THE SUPPLY OF ENGINEERS

The supply of engineers increases when new graduates join the engineering labour force and when migrant engineers on either permanent or temporary visas join the labour force.

Conversely, the supply of engineers falls when engineers in the engineering labour force retire or leave the labour force for other reasons and when engineers in the labour force leave Australia either to return to home countries or Australians choosing to work in another country.

The statistics covered in this report deal with the first of these factors.

In Table 15 we summarise how the statistics in this report contribute to the supply of engineers in Australia. During the period of engineering skill shortages, generally thought of as the five years leading up to the global financial crisis, Australian universities contributed on average about 6,070 graduates completing courses in engineering that rendered them eligible to join the engineering team. During this period annual growth in completions was very slow, just 0.7% per year with contraction of numbers in several years.

Table 15: Additional Supply of Engineers from Domestic University Course Completions in Engineering

Source	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Men																
Associate Engineers	90	92	87	83	121	155	254	285	300	475	437	445	515	488	457	493
Engineering Technologists	524	488	561	691	490	502	439	346	377	419	400	488	415	465	455	486
Professional Engineers																
Four year degree	3272	3302	3310	3179	3417	3648	3653	3626	3945	4061	4186	4279	4437	4598	4436	4625
Four year double degree	1051	1215	1195	1192	1165	1082	1069	1348	1324	1355	1519	1562	1629	1292	1432	1604
Sub-total	4323	4517	4505	4371	4582	4730	4722	4974	5269	5416	5705	5841	6066	5890	5868	6229
Total completions	4937	5097	5153	5145	5193	5387	5415	5605	5946	6310	6542	6774	6996	6843	6780	7208
Women																
Associate Engineers	14	<10	<10	<10	12	20	24	35	27	40	35	58	50	55	36	48
Engineering Technologists	88	88	139	156	109	130	116	117	117	99	112	155	82	85	90	92
Professional Engineers																
Four year degree	663	636	604	528	506	523	552	542	595	624	627	659	641	705	696	734
Four year double degree	233	251	275	280	274	247	234	258	297	311	311	349	393	269	320	362
Sub-total	896	887	879	808	780	770	786	800	892	935	938	1008	1034	974	1016	1096
Engineering Team	998	975	1018	964	901	920	926	952	1036	1074	1085	1221	1166	1114	1142	1236
Total																
Associate Engineers	104	92	87	83	133	175	278	320	327	515	472	503	565	543	493	541
Engineering Technologists	612	576	700	847	599	632	555	463	494	518	512	643	497	550	545	578
Professional Engineers																
Four year degree	3935	3938	3914	3707	3923	4171	4205	4168	4540	4685	4813	4938	5078	5303	5132	5359
Four year double degree	1284	1466	1470	1472	1439	1329	1303	1606	1621	1666	1830	1911	2022	1561	1752	1966
Sub-total	5219	5404	5384	5179	5362	5500	5508	5774	6161	6351	6643	6849	7100	6864	6884	7325
Engineering Team	5935	6072	6171	6109	6094	6307	6341	6557	6982	7384	7627	7995	8162	7957	7922	8444

From 2008 this changed and there was solid growth in the number of completions for eight years, growing on average by 3.7% per year. But in 2016 and 2017, the number of course completions contracted. When combined with falling course commencements from 2013 onwards, the two years of contraction in completions suggested a reversal of the growth trend. The 2018 result contradicts that view; completions increased to 8,444, up 6.6% on 2017 and offsetting the impacts of the two negative years.

Completions increased in each of the components of the engineering team. The number of new associate engineers increased by 9.7% to 541. The number of new engineering technologists increased by 6.1% to 578. The number of new professional engineers increased by 6.4% to 7,325.

The number of women graduates continues to increase but progress is uneven across engineering team components. In 2018, 8.9% of new associate engineers were women; 15.9% of new engineering technologists were women and 15.0% of new professional engineers were women giving an overall share of 14.6%. To put this result into perspective in 2001, 16.8% of new engineers were women.

Cumulatively, from 2010 onwards, Australian universities have produced 69,030 engineering course completions eligible to join the engineering team; 4,279 new engineering associates; 4,800 new engineering technologists and 59,951 new professional engineers.

APPENDIX: STATE AND TERRITORY STATISTICS

NEW SOUTH WALES

Table A1: Domestic Students Commencing Engineering and Related Technologies Courses in NSW

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level																		
Doctoral	132	152	150	177	147	130	139	146	159	180	163	147	165	174	154	192	209	155
Research masters	70	78	82	101	83	70	53	146	78	70	57	71	64	77	59	43	52	32
Coursework masters	361	439	420	338	324	326	339	399	562	590	548	548	545	537	481	499	435	423
Other postgraduate	328	310	332	282	347	270	288	347	374	365	366	347	417	356	250	193	166	118
Bachelors	2518	2438	2438	2386	2412	2453	2618	2856	3084	3075	3352	3620	3917	3830	4269	4166	3900	4009
Ass degrees & Adv diplomas	6	4	0	0	0	0	0	0	43	62	54	57	<5	33	107	77	106	116
Diplomas	0	0	0	0	0	0	38	46	48	53	64	117	104	129	128	165	171	181
Other undergraduate	0	0	0	0	0	0	0	0	21	15	15	14	0	0	0	0	0	0
Total	3415	3421	3422	3284	3313	3249	3475	3940	4348	4416	4619	4921	5216	5136	5448	5335	5039	5034

Women																		
Doctoral	36	56	45	42	33	37	38	36	54	70	44	54	48	65	65	45	66	59
Research masters	9	20	15	21	25	15	20	36	19	18	16	23	17	16	11	22	17	13
Coursework masters	85	95	82	82	68	93	87	98	111	122	117	93	135	114	113	94	88	98
Other postgraduate	83	77	91	73	99	98	85	102	96	94	100	80	101	73	68	49	49	37
Bachelors	479	444	372	398	327	360	422	473	519	562	562	606	694	742	886	874	919	1050
Ass degrees & Adv diplomas	1	1	0	0	0	0	0	0	4	1	3	5	0	2	15	5	5	13
Diplomas	0	0	0	0	0	0	10	9	10	9	3	8	9	17	9	20	12	18
Other undergraduate	0	0	0	0	0	0	0	0	0	2	3	<5	0	0	0	0	0	0
Total	693	693	605	616	552	603	662	754	813	878	848	873	1004	1029	1167	1109	1156	1288

All domestic students																		
Doctoral	168	208	195	219	180	167	177	182	213	250	207	201	213	239	219	237	275	214
Research masters	79	98	97	122	108	85	73	182	97	88	73	94	81	93	70	65	69	45
Coursework masters	446	534	502	420	392	419	426	497	673	712	665	641	680	651	594	593	523	521
Other postgraduate	411	387	423	355	446	368	373	449	470	459	466	427	518	429	318	242	215	155
Bachelors	2997	2882	2810	2784	2739	2813	3040	3329	3603	3637	3914	4226	4611	4572	5155	5040	4819	5059
Ass degrees & Adv diplomas	7	5	0	0	0	0	0	0	47	63	57	62	0	35	122	82	111	129
Diplomas	0	0	0	0	0	0	48	55	58	62	67	125	113	146	137	185	183	199
Other undergraduate	0	0	0	0	0	0	0	0	0	23	18	14	0	0	0	0	0	0
Total	4108	4114	4027	3900	3865	3852	4137	4694	5161	5294	5467	5794	6220	6165	6615	6444	6195	6322

Source: Data provided by DET

NEW SOUTH WALES

Table A2: Overseas Students Commencing Engineering and Related Technologies Courses in NSW

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	77	66	74	73	77	107	115	149	186	217	258	253	272	282	280	276	404	400
Doctoral	32	33	44	59	46	45	51	43	45	68	76	72	53	71	53	41	71	82
Research masters	471	573	739	674	581	486	590	689	920	931	851	799	1072	1295	1716	2178	2613	2847
Coursework masters	44	68	49	46	54	54	32	42	53	57	62	64	48	36	82	70	108	53
Other postgraduate	798	1068	1077	920	762	830	835	827	1018	1132	1176	1122	1190	1212	1379	1662	1861	1826
Bachelors	0	1	0	0	0	0	0	0	5	18	20	17	15	28	28	49	68	54
Ass degrees & Adv diplomas	0	0	0	0	0	0	77	81	129	158	180	161	250	258	324	256	280	299
Diplomas	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	1422	1809	2025	1772	1520	1522	1700	1831	2356	2581	2623	2488	2900	3182	3862	4532	5405	5561
Total																		

Women	19	13	13	24	14	29	20	40	71	63	90	74	97	124	73	111	148	156
Doctoral	9	9	10	8	12	15	20	14	24	28	29	29	23	26	16	19	28	15
Research masters	107	125	154	164	125	99	127	173	198	240	228	220	240	326	534	682	757	850
Coursework masters	10	11	12	7	8	14	9	9	13	17	18	10	16	12	23	16	24	18
Other postgraduate	154	224	189	187	144	173	162	153	221	262	289	277	277	340	431	506	498	502
Bachelors	0	0	0	0	0	0	0	0	0	6	1	<5	<5	0	1	7	7	8
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	12	15	22	14	10	15	20	26	19	36	41
Diplomas	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	299	382	394	390	303	330	338	401	542	638	669	622	670	848	1104	1360	1498	1590
Total																		

All overseas students	96	79	87	97	91	136	135	189	257	280	348	327	369	406	353	387	552	556
Doctoral	41	42	54	67	58	60	71	57	69	96	105	101	76	97	69	60	99	97
Research masters	578	698	893	838	706	585	717	862	1118	1171	1079	1019	1312	1621	2250	2860	3370	3697
Coursework masters	54	79	61	53	62	68	41	51	66	74	80	74	64	48	105	86	132	71
Other postgraduate	952	1292	1266	1107	906	1003	997	980	1239	1394	1465	1399	1467	1552	1810	2168	2359	2328
Bachelors	0	1	0	0	0	0	0	0	5	24	21	17	15	28	29	56	75	62
Ass degrees & Adv diplomas	0	0	0	0	0	0	77	93	144	180	194	171	265	278	350	275	316	340
Diplomas	0	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	1721	2191	2419	2162	1823	1852	2038	2232	2898	3219	3292	3108	3568	4030	4966	5892	6903	7151
Total																		

Source: Data provided by DET

NEW SOUTH WALES

Table A3: Domestic Students Completing Engineering and Related Technologies Courses in NSW

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	85	125	99	109	117	139	150	186	147	129	109	137	167	138	169	139	190	159
Doctoral	33	23	23	35	18	47	39	39	27	20	26	26	37	19	30	30	29	23
Research masters	336	322	285	264	279	261	251	252	291	419	443	439	472	502	431	403	342	319
Coursework masters	102	112	129	102	95	139	125	126	143	132	132	125	153	145	134	131	147	106
Other postgraduate	1487	1300	1417	1520	1487	1424	1402	1453	1336	1501	1527	1521	1621	1770	1877	1952	1931	2270
Bachelors	3	6	0	0	0	0	0	0	6	8	12	19	8	10	17	15	30	55
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	1	17	28	29	41	59	90	63	84	76	56
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	2046	1888	1953	2030	1996	2010	1967	2057	1967	2237	2278	2308	2517	2674	2721	2754	2745	2988
Total	428	389	424	401	451	393	398	400	406	433	409	413	485	537	545	518	539	632

Women	20	19	40	31	37	40	34	56	40	28	31	37	54	44	57	54	52	58
Doctoral	2	8	9	5	8	13	8	8	6	6	12	<5	8	11	14	9	8	13
Research masters	81	73	67	51	69	49	74	63	78	102	83	87	102	111	105	74	73	70
Coursework masters	30	28	44	45	30	24	59	51	36	54	33	33	41	33	35	28	31	28
Other postgraduate	294	260	264	269	307	267	221	220	244	236	248	252	273	334	325	346	368	452
Bachelors	1	1	0	0	0	0	0	0	0	0	0	0	<5	<5	1	1	2	5
Assoc degrees & Adv diplomas	0	0	0	0	0	0	2	2	2	7	<5	<5	6	<5	8	6	5	6
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	428	389	424	401	451	393	398	400	406	433	409	413	485	537	545	518	539	632

All completing domestic students

Doctoral	105	144	139	140	154	179	184	242	187	157	140	174	221	182	226	193	242	217
Research masters	35	31	32	40	26	60	47	47	33	26	38	29	45	30	44	39	37	36
Coursework masters	417	395	352	315	348	310	325	315	369	521	526	526	574	613	536	477	415	389
Other postgraduate	132	140	173	147	125	163	184	177	179	186	165	158	194	178	169	159	178	134
Bachelors	1781	1560	1681	1789	1794	1691	1623	1673	1580	1737	1775	1773	1894	2104	2202	2298	2299	2722
Assoc degrees & Adv diplomas	4	7	0	0	0	0	0	0	6	8	12	19	9	11	18	16	32	60
Diplomas	0	0	0	0	0	0	2	3	19	35	31	42	65	93	71	90	81	62
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2474	2277	2377	2431	2447	2403	2365	2457	2373	2670	2687	2721	3002	3211	3266	3272	3284	3620

Source: Data provided by DET

NEW SOUTH WALES

Table A4: Overseas Students Completing Engineering and Related Technologies Courses in NSW

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	33	39	29	45	60	79	76	41	57	83	117	123	148	190	147	183	188	205
Doctoral	17	15	8	19	22	45	33	25	25	27	40	41	36	41	26	37	38	41
Research masters	311	415	610	569	568	495	481	470	663	814	882	725	740	790	883	1079	1492	2108
Coursework masters	12	20	20	21	44	36	32	26	24	24	41	30	29	25	44	60	72	37
Other postgraduate	445	445	537	559	570	496	457	535	427	558	580	608	706	767	686	772	755	890
Bachelors	1	1	0	0	0	0	0	0	0	<5	10	5	5	<5	8	13	32	27
Assoc degrees & Adv diplomas	0	0	0	0	0	0	15	13	27	98	134	129	118	199	185	273	225	187
Diplomas	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	819	935	1244	1213	1264	1151	1094	1110	1223	1605	1804	1661	1782	2013	1979	2367	2802	3495
Total	819	935	1244	1213	1264	1151	1094	1110	1223	1605	1804	1661	1782	2013	1979	2367	2802	3495

Women	11	4	10	13	13	13	16	12	16	21	20	40	58	53	49	57	56	58
Doctoral	7	2	4	4	6	10	8	11	7	15	16	22	15	13	23	12	11	10
Research masters	120	111	127	135	148	111	88	119	166	205	219	205	197	217	229	345	515	708
Coursework masters	1	3	6	2	10	7	7	5	7	9	15	<5	7	<5	12	8	8	10
Other postgraduate	89	110	119	121	121	115	111	124	105	125	111	127	169	223	201	219	246	311
Bachelors	0	0	0	0	0	0	0	0	0	5	0	<5	0	0	1	1	5	7
Assoc degrees & Adv diplomas	0	0	0	0	0	0	3	2	2	8	21	9	9	18	25	23	22	28
Diplomas	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	228	230	277	275	298	256	233	273	303	388	402	409	455	526	540	665	863	1132
Total	228	230	277	275	298	256	233	273	303	388	402	409	455	526	540	665	863	1132

All completing overseas students

Doctoral	44	43	39	58	73	92	92	53	73	104	137	163	206	243	196	240	244	263
Research masters	24	17	12	23	28	55	41	36	32	42	56	63	51	54	49	49	49	51
Coursework masters	431	526	737	704	716	606	569	589	829	1019	1101	930	937	1007	1112	1424	2007	2816
Other postgraduate	13	23	26	23	54	43	39	31	31	33	56	34	36	27	56	68	80	47
Bachelors	534	555	656	680	691	611	568	659	532	683	691	735	875	990	887	991	1001	1201
Assoc degrees & Adv diplomas	1	1	0	0	0	0	0	0	0	6	10	7	5	<5	9	14	37	34
Diplomas	0	0	0	0	0	0	18	15	29	106	155	138	127	217	210	296	247	215
Other undergraduate	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1047	1165	1521	1488	1562	1407	1327	1383	1526	1993	2206	2070	2237	2539	2519	3032	3665	4627

Source: Data provided by DET

VICTORIA

Table A5: Domestic Students Commencing Courses in Engineering & Related Technologies in Victoria

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	108	126	121	113	114	84	96	82	102	112	130	115	129	114	151	125	139	99
Doctoral	117	123	84	99	71	91	74	83	88	82	48	38	55	44	37	27	21	26
Research masters	196	301	308	269	243	237	226	245	302	327	395	533	580	618	571	602	611	482
Coursework masters	299	278	251	226	209	195	202	270	230	211	137	208	189	180	81	73	69	76
Other postgraduate	2897	2622	2534	2490	2454	2444	2625	2325	2424	2473	2548	2733	2869	2878	2888	2796	2608	2763
Bachelors	11	25	19	4	<10	<10	0	72	110	143	251	326	488	345	335	369	332	391
Ass degrees & Adv diplomas	0	0	0	0	<10	<10	11	11	13	19	20	22	45	101	113	121	175	141
Diplomas	31	26	10	1	53	75	62	57	71	118	178	179	78	84	65	62	8	3
Other undergraduate	3659	3501	3327	3202	3144	3126	3286	3145	3340	3485	3707	4154	4433	4364	4241	4175	3963	3981
Total																		

Women	39	31	29	43	36	35	27	28	35	41	47	45	46	43	47	47	44	43
Doctoral	24	34	37	34	21	24	26	28	20	17	18	15	17	20	16	14	6	7
Research masters	49	45	69	63	47	51	52	63	72	72	94	102	114	144	125	142	141	155
Coursework masters	62	49	29	37	34	37	25	51	43	42	29	33	39	26	17	13	17	15
Other postgraduate	598	530	538	402	442	456	498	395	413	411	424	421	563	507	413	457	467	569
Bachelors	0	2	0	0	1	0	0	8	<10	9	12	13	50	26	33	27	34	38
Ass degrees & Adv diplomas	0	0	0	0	0	1	0	0	<10	0	3	0	<5	<5	3	17	22	10
Diplomas	4	6	2	0	40	74	72	71	82	137	158	147	103	71	58	76	3	2
Other undergraduate	776	697	704	579	621	678	700	644	665	729	785	776	936	841	712	793	734	839
Total																		

All domestic students	147	157	150	156	150	119	123	110	137	153	177	160	175	157	198	172	183	142
Doctoral	141	157	121	133	92	115	100	111	108	99	66	53	72	64	53	41	27	33
Research masters	245	346	377	332	290	288	278	308	374	399	489	635	694	762	696	744	752	637
Coursework masters	361	327	280	263	243	232	227	321	273	253	166	241	228	206	98	86	86	91
Other postgraduate	3495	3152	3072	2892	2896	2900	3123	2720	2837	2884	2972	3154	3432	3385	3301	3253	3075	3332
Bachelors	11	27	19	4	1	0	0	80	110	152	263	339	538	371	368	396	366	429
Ass degrees & Adv diplomas	0	0	0	0	0	1	11	11	13	19	23	22	45	105	116	138	197	151
Diplomas	35	32	12	1	93	149	134	128	153	255	336	326	181	155	123	138	11	5
Other undergraduate	4435	4198	4031	3781	3765	3804	3996	3789	4005	4214	4492	4930	5369	5205	4953	4968	4697	4820
Total																		

Source: Data provided by DET

VICTORIA

Table A6: Overseas Students Commencing Courses in Engineering & Related Technologies in Victoria

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	42	39	46	54	62	70	71	109	178	177	162	235	299	238	313	264	357	355
Doctoral	40	56	57	66	53	63	57	66	67	47	59	61	49	54	34	35	47	44
Research masters	318	571	1221	897	662	674	766	707	868	605	490	732	1061	1281	1436	1758	2420	2844
Coursework masters	115	90	49	65	134	159	136	113	105	62	59	33	19	25	15	6	2	2
Other postgraduate	970	925	1126	1024	1194	1191	1316	1170	1535	1547	1465	1547	1604	1712	1971	2150	2353	2553
Bachelors	0	0	0	0	0	38	75	68	78	75	161	92	90	93	114	97	90	86
Ass degrees & Adv diplomas	0	0	0	0	0	0	101	109	124	132	127	216	220	271	434	617	639	713
Diplomas	0	2	0	0	8	3	0	0	0	<10	18	10	0	0	0	0	0	0
Other undergraduate	1485	1683	2499	2106	2113	2198	2522	2342	2955	2647	2541	2926	3342	3674	4317	4927	5908	6597
Total																		

Women	10	7	15	11	11	30	32	44	60	69	82	81	105	108	103	104	140	167
Doctoral	8	6	13	14	21	21	28	23	28	16	23	23	17	19	14	22	15	6
Research masters	68	122	170	175	143	148	161	158	186	152	108	157	223	295	332	471	580	634
Coursework masters	13	15	6	13	17	27	30	24	16	17	8	8	5	<5	4	4	1	0
Other postgraduate	235	206	233	230	269	276	331	294	315	314	247	259	346	330	446	445	556	482
Bachelors	1	0	0	0	0	1	0	2	3	5	7	9	9	8	7	17	8	8
Ass degrees & Adv diplomas	0	0	0	0	0	0	7	14	22	18	14	21	31	39	78	124	112	108
Diplomas	0	0	0	0	0	1	0	0	0	<10	7	<5	0	0	0	0	0	0
Other undergraduate	335	356	437	443	462	504	589	559	630	593	496	560	736	803	984	1187	1412	1405
Total																		

All overseas students	52	46	61	65	73	100	103	153	238	246	244	316	404	346	416	368	497	522
Doctoral	48	62	70	80	74	84	85	89	95	63	82	84	66	73	48	57	62	50
Research masters	386	693	1391	1072	805	822	927	865	1054	757	598	889	1284	1576	1768	2229	3000	3478
Coursework masters	128	105	55	78	151	186	166	137	121	79	67	41	24	29	19	10	3	2
Other postgraduate	1205	1131	1359	1254	1463	1467	1647	1464	1850	1861	1712	1806	1950	2042	2417	2595	2909	3035
Bachelors	1	0	0	0	0	39	75	70	81	80	168	101	99	101	121	114	98	94
Ass degrees & Adv diplomas	0	0	0	0	0	0	108	123	146	150	141	237	251	310	512	741	751	821
Diplomas	0	2	0	0	9	4	0	0	0	0	25	10	0	0	0	0	0	0
Other undergraduate	1820	2039	2936	2549	2575	2702	3111	2901	3585	3240	3037	3486	4078	4477	5301	6114	7320	8002
Total																		

Source: Data provided by DET

VICTORIA

Table A7: Domestic Students Completing Courses in Engineering & Related Technologies in Victoria

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	85	91	101	95	103	129	101	137	92	88	70	95	94	127	108	133	111	121
Doctoral																		
Research masters	42	51	51	47	41	24	25	27	20	19	15	20	27	18	20	15	21	11
Coursework masters	122	137	186	183	147	131	172	160	209	225	208	301	387	399	468	478	494	481
Other postgraduate	133	83	115	110	103	66	77	104	127	124	151	152	131	94	142	92	94	71
Bachelors	1684	1452	1418	1531	1424	1606	1478	1728	1595	1523	1560	1653	1665	1552	1550	1545	1633	1713
Assoc degrees & Adv diplomas	50	22	15	20	8	3	6	6	39	40	57	134	192	188	213	232	201	233
Diplomas	0	0	0	0	0	0	3	3	7	13	11	11	13	60	63	70	78	80
Other undergraduate	22	8	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2138	1844	1888	1987	1826	1959	1862	2165	2089	2032	2072	2366	2509	2438	2564	2565	2632	2710

Women	26	24	26	33	20	26	30	49	28	31	37	35	30	51	31	50	42	47
Doctoral																		
Research masters	11	15	10	9	11	11	16	11	8	10	8	6	<5	<5	9	9	8	10
Coursework masters	21	35	33	42	34	27	37	40	32	50	49	50	89	90	106	96	105	108
Other postgraduate	24	15	13	15	11	13	11	12	27	29	24	23	14	18	31	18	20	10
Bachelors	370	323	359	377	340	351	329	371	320	314	315	323	291	321	220	247	227	296
Assoc degrees & Adv diplomas	0	2	3	1	0	0	1	0	4	-	<5	8	6	18	14	17	18	15
Diplomas	0	0	0	0	0	0	1	0	0	<5	<5	<5	<5	6	4	6	15	4
Other undergraduate	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	455	414	445	477	417	428	425	483	419	435	436	446	435	507	415	443	435	490

All completing domestic students	111	115	127	128	123	155	131	186	120	119	107	130	124	178	139	183	153	168
Doctoral																		
Research masters	53	66	61	56	52	35	41	38	28	29	23	26	31	21	29	24	29	21
Coursework masters	143	172	219	225	181	158	209	200	241	275	257	351	476	489	574	574	599	589
Other postgraduate	157	98	128	125	114	79	88	116	154	153	175	175	145	112	173	110	114	81
Bachelors	2054	1775	1777	1908	1764	1957	1807	2099	1915	1837	1875	1976	1956	1873	1770	1792	1860	2009
Assoc degrees & Adv diplomas	50	24	18	21	8	3	7	6	43	40	57	142	198	206	227	249	219	248
Diplomas	0	0	0	0	0	0	4	3	7	13	11	11	14	66	67	76	93	84
Other undergraduate	25	8	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2593	2258	2333	2464	2243	2387	2287	2648	2508	2467	2508	2812	2944	2945	2979	3008	3067	3200

Source: Statistics provided by DET

VICTORIA

Table A8: Overseas Students Completing Engineering & Related Technologies Courses in Victoria

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	11	22	20	35	38	40	54	49	53	58	73	91	97	140	134	160	193	200
Doctoral	14	12	16	23	19	25	22	24	15	19	19	15	20	18	28	28	30	26
Research masters	191	243	509	663	796	469	489	628	642	696	654	480	526	731	953	1116	1221	1835
Coursework masters	33	26	50	54	74	96	74	84	71	59	79	37	22	17	16	13	9	6
Other postgraduate	486	435	448	517	627	681	708	699	771	826	989	1073	1333	1088	1024	1055	1350	1451
Bachelors	0	0	0	0	0	0	6	29	29	48	29	85	98	66	81	82	79	67
Assoc degrees & Adv diplomas	0	0	0	0	0	0	48	61	85	100	92	113	116	149	192	342	394	453
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	735	738	1043	1292	1554	1311	1401	1574	1666	1806	1935	1894	2212	2209	2428	2796	3276	4038
Total																		

Women	5	5	5	4	8	9	14	9	12	20	31	34	36	47	54	55	77	68
Doctoral	3	0	3	8	5	7	8	9	9	9	8	8	8	5	18	9	9	13
Research masters	43	62	76	111	140	98	122	150	144	170	149	99	126	163	224	273	317	489
Coursework masters	3	3	9	10	17	14	14	18	19	12	13	10	<5	7	8	5	2	2
Other postgraduate	100	103	131	144	169	167	163	205	183	208	263	232	269	254	197	249	294	355
Bachelors	0	0	0	0	0	0	1	1	1	0	<5	6	6	5	9	2	15	10
Assoc degrees & Adv diplomas	0	0	0	0	0	0	2	1	14	15	15	13	10	26	47	71	78	78
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	154	173	224	277	339	295	324	393	382	434	479	402	458	507	557	664	792	1015
Total																		

All completing overseas students

Doctoral	16	27	25	39	46	49	68	58	65	78	104	125	133	187	188	215	270	268
Research masters	17	12	19	31	24	32	30	33	24	28	27	23	28	23	46	37	39	39
Coursework masters	234	305	585	774	936	567	611	778	786	866	803	579	652	894	1177	1389	1538	2324
Other postgraduate	36	29	59	64	91	110	88	102	90	71	92	47	25	24	24	18	11	8
Bachelors	586	538	579	661	796	848	871	904	954	1034	1252	1305	1602	1342	1221	1304	1644	1806
Assoc degrees & Adv diplomas	0	0	0	0	0	0	7	30	30	48	30	91	104	71	90	84	94	77
Diplomas	0	0	0	0	0	0	50	62	99	115	107	126	126	175	239	413	472	531
Other undergraduate	889	911	1267	1569	1893	1606	1725	1967	2048	2240	2414	2296	2670	2716	2985	3460	4068	5053
Total																		

Source: Statistics provided by DET

QUEENSLAND

Table A9: Domestic Commencements in Engineering and Related Technologies Courses in Queensland

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	97	112	77	113	81	71	74	61	72	84	60	63	63	67	73	89	64	76
Research masters	36	41	45	39	43	28	36	61	39	48	33	27	32	49	59	52	38	27
Coursework masters	43	50	51	72	77	71	138	148	164	182	128	168	149	172	152	156	135	106
Other postgraduate	226	174	271	255	269	258	222	114	155	109	122	94	148	198	215	187	152	170
Bachelors	1887	1878	1825	1785	1909	1930	2042	2249	2261	2427	2475	2845	3086	3402	3067	2909	2725	2798
Ass degree & Adv diploma	171	170	173	188	263	311	390	548	534	868	716	780	1007	728	498	414	346	332
Diploma	0	0	0	0	0	0	13	9	18	51	50	98	61	128	74	52	66	79
Other undergraduate	12	13	17	14	1	1	0	0	0	0	0	71	105	0	0	1	0	0
Total	2472	2438	2459	2466	2643	2670	2915	3190	3243	3769	3584	4146	4651	4744	4138	3860	3526	3588

Women	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016 <td>2017</td> <td>2018</td>	2017	2018
Doctoral	39	24	24	36	21	17	17	23	18	20	28	22	27	26	30	26	33	30
Research masters	11	13	15	17	8	4	6	23	6	14	8	9	7	8	8	6	9	2
Coursework masters	12	10	10	8	19	15	20	15	21	32	29	41	48	44	40	31	33	23
Other postgraduate	36	32	25	37	38	37	18	27	40	27	28	26	33	28	31	22	27	19
Bachelors	256	202	207	242	220	280	319	366	402	385	366	443	525	630	567	590	586	590
Ass degree & Adv diploma	11	21	15	6	32	41	61	68	58	112	77	87	103	69	71	61	40	49
Diploma	0	0	0	0	0	0	1	1	5	<5	7	20	10	13	0	5	6	8
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	6	13	0	0	0	0	0
Total	365	302	296	346	338	394	442	523	550	594	543	654	766	818	747	741	734	721

All domestic commencements	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016 <td>2017</td> <td>2018</td>	2017	2018
Doctoral	136	136	101	149	102	88	91	84	90	104	88	85	90	93	103	115	97	106
Research masters	47	54	60	56	51	32	42	84	45	62	41	36	39	57	67	58	47	29
Coursework masters	55	60	61	80	96	86	158	163	185	214	157	209	197	216	192	187	168	129
Other postgraduate	262	206	296	292	307	295	240	141	195	136	150	120	181	226	246	209	179	189
Bachelors	2143	2080	2032	2027	2129	2210	2361	2615	2663	2812	2841	3288	3611	4032	3634	3499	3311	3388
Ass degree & Adv diploma	182	191	188	194	295	352	451	616	592	980	793	867	1110	797	569	475	386	381
Diploma	0	0	0	0	0	0	14	10	23	51	57	118	71	141	74	57	72	87
Other undergraduate	12	13	17	14	1	1	0	0	0	0	0	77	118	0	0	1	0	0
Total	2837	2740	2755	2812	2981	3064	3357	3713	3793	4363	4127	4800	5417	5562	4885	4601	4260	4309

Source: Data provided by DET

QUEENSLAND

Table A10: Overseas Commencements in Engineering and Related Technologies Courses in Queensland

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	24	35	35	33	30	33	75	65	81	80	90	118	118	147	131	141	125	132
Doctoral	12	9	8	20	16	11	17	6	13	27	17	16	18	13	15	10	23	17
Research masters	191	166	214	253	183	173	181	137	223	197	143	188	293	382	309	361	470	715
Coursework masters	32	48	27	15	27	19	40	37	39	49	32	22	27	12	16	15	9	18
Other postgraduate	565	645	677	545	347	344	320	304	424	407	402	387	410	511	491	452	466	436
Bachelors	3	14	7	10	6	2	34	45	57	<5	8	18	43	19	15	31	25	32
Ass degree & Adv diploma	0	0	0	0	0	0	0	0	0	71	44	0	0	102	96	49	43	53
Diploma	0	1	0	24	26	28	33	50	45	49	0	48	142	0	18	72	68	59
Other undergraduate	827	918	968	900	635	610	700	644	882	882	736	797	1051	1186	1091	1131	1229	1462
Total																		

Women	8	9	7	3	8	13	17	28	44	38	35	45	55	40	48	58	50	60
Doctoral	3	2	0	2	2	2	3	6	6	3	7	8	9	5	5	3	3	3
Research masters	26	30	34	35	30	30	49	26	27	47	55	54	65	82	65	83	81	101
Coursework masters	4	8	2	5	3	7	4	11	5	11	3	7	<5	<5	<5	3	2	3
Other postgraduate	97	84	124	57	51	36	51	32	66	73	72	87	87	120	141	102	118	120
Bachelors	0	1	1	1	1	1	3	2	6	0	3	<5	26	0	<5	6	9	11
Ass degree & Adv diploma	0	0	0	0	0	0	0	0	0	11	7	<5	0	13	<5	5	1	2
Diploma	3	0	0	8	9	9	19	13	15	10	0	<5	9	0	5	5	11	12
Other undergraduate	141	134	168	111	104	98	146	118	169	193	182	208	255	262	273	265	275	312
Total																		

All overseas commencements	32	44	42	36	38	46	92	93	125	118	125	163	173	187	179	199	175	192
Doctoral	15	11	8	22	18	13	20	12	19	30	24	24	27	18	20	13	26	20
Research masters	217	196	248	288	213	203	230	163	250	244	198	242	358	464	374	444	551	816
Coursework masters	36	56	29	20	30	26	44	48	44	60	35	29	27	14	16	18	11	21
Other postgraduate	662	729	801	602	398	380	371	336	490	480	474	474	497	631	632	554	584	556
Bachelors	3	15	8	11	7	3	37	47	63	0	11	18	69	19	15	37	34	43
Ass degree & Adv diploma	0	0	0	0	0	0	0	0	0	82	51	0	0	115	96	54	44	55
Diploma	3	1	0	32	35	37	52	63	60	59	0	48	151	0	23	77	79	71
Other undergraduate	968	1052	1136	1011	739	708	846	762	1051	1075	918	1005	1306	1448	1364	1396	1504	1774
Total																		

Source: Data provided by DET

Note: Cells with small numbers do not necessarily sum across Table components.

QUEENSLAND

Table A11: Domestic Completions of Engineering and Related Technologies Courses in Queensland

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Level	45	47	64	60	75	63	85	91	53	78	59	71	70	70	79	52	59	62	59	62
Doctoral	24	25	29	25	26	21	21	20	15	13	15	16	22	26	16	20	17	17	17	17
Research masters	29	22	42	48	49	48	68	61	55	66	87	94	108	101	135	114	97	85	85	85
Coursework masters	61	52	50	78	49	77	85	82	119	115	130	84	134	123	154	147	111	103	103	103
Other postgraduate	885	900	847	905	795	905	926	875	1068	1010	1152	1243	1262	1410	1528	1634	1673	1683	1683	1683
Bachelors	74	78	50	46	48	49	86	123	169	185	173	261	205	257	252	200	178	160	160	160
Assoc degrees & Adv diplomas	1	2	1	1	2	3	3	3	3	12	35	33	41	49	61	60	55	79	79	79
Diplomas	0	0	42	13	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Other undergraduate	1119	1126	1125	1176	1044	1166	1274	1255	1482	1479	1651	1802	1842	2036	2225	2228	2190	2189	2189	2189

Women	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Level	5	8	9	13	23	9	21	24	16	22	16	20	25	27	29	31	23	29	29	29
Doctoral	8	5	7	4	7	9	7	2	0	5	6	7	8	6	<5	7	<5	4	4	4
Research masters	5	3	5	9	6	8	15	10	14	12	12	17	20	36	38	24	21	23	23	23
Coursework masters	6	8	11	13	11	13	16	16	27	29	28	25	20	20	20	26	16	17	17	17
Other postgraduate	140	138	125	121	114	141	126	123	134	168	213	232	211	214	279	292	339	322	322	322
Bachelors	2	4	10	7	5	3	7	18	17	29	21	30	28	29	31	36	15	21	21	21
Assoc degrees & Adv diplomas	0	0	0	0	0	0	3	0	1	<5	<5	<5	9	9	8	6	7	7	7	7
Diplomas	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	166	166	168	167	166	183	195	193	209	266	300	334	321	341	406	424	422	423	423	423

All domestic completions

Level	50	55	73	73	98	72	106	115	69	100	75	91	95	97	108	83	82	91	91	91
Doctoral	32	30	36	29	33	30	28	22	15	18	21	23	30	32	16	27	17	21	21	21
Research masters	34	25	47	57	55	56	83	71	69	78	99	111	128	137	173	138	118	108	108	108
Coursework masters	67	60	61	91	60	90	101	98	146	144	158	109	154	143	174	173	127	120	120	120
Other postgraduate	1025	1038	972	1026	909	1046	1052	998	1202	1178	1365	1475	1473	1624	1807	1926	2012	2005	2005	2005
Bachelors	76	82	60	53	53	52	93	141	186	214	194	291	233	286	283	236	193	181	181	181
Assoc degrees & Adv diplomas	1	2	1	1	2	3	6	3	4	13	39	36	50	58	61	68	61	86	86	86
Diplomas	0	0	43	13	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Other undergraduate	1285	1292	1293	1343	1210	1349	1469	1448	1691	1745	1951	2136	2163	2377	2631	2652	2612	2612	2612	2612

Source: Data provided by DET

Note: Cells with small numbers do not necessarily sum across Table components.

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Table A12: Overseas Completions of Engineering and Related Technologies Courses in Queensland

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	17	14	18	27	25	20	31	18	39	54	44	54	92	114	91	107	95	96
Doctoral	4	6	5	4	6	15	5	13	8	9	12	8	11	17	6	11	14	10
Research masters	123	136	177	175	170	184	181	163	137	151	200	135	180	236	213	231	264	324
Coursework masters	34	66	28	14	10	21	29	32	32	37	34	35	31	14	15	17	17	23
Other postgraduate	265	289	304	317	375	295	219	220	225	202	233	265	270	261	265	286	322	344
Bachelors	0	0	1	1	2	1	5	25	38	21	<5	15	7	11	13	13	18	13
Assoc degrees & Adv diplomas	0	0	0	1	1	0	0	0	1	19	44	24	39	57	59	47	23	25
Diplomas	0	0	0	6	11	16	8	11	15	0	0	0	0	0	0	0	0	44
Other undergraduate	443	511	533	545	600	552	478	482	495	493	568	536	630	710	662	746	808	881
Total																		

Women	2	2	2	2	4	8	4	3	4	9	17	21	41	41	40	33	43	35
Doctoral	2	2	1	1	1	1	1	3	2	<5	5	0	<5	5	<5	9	<5	<5
Research masters	25	17	35	25	35	28	29	41	31	20	53	31	59	51	70	60	71	74
Coursework masters	6	14	4	3	5	3	2	8	5	8	<5	5	7	<5	<5	<5	<5	<5
Other postgraduate	48	58	51	68	60	38	39	33	26	27	31	37	57	66	58	62	89	102
Bachelors	0	0	0	1	0	0	1	2	3	<5	0	<5	<5	7	5	<5	<5	6
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	5	9	<5	5	9	6	0	<5	<5
Diplomas	0	0	0	2	5	5	1	5	3	0	0	0	0	0	0	<5	8	11
Other undergraduate	83	93	93	102	110	83	77	95	74	76	119	99	177	183	183	176	221	234
Total																		

All overseas completions	19	16	20	29	29	28	35	21	43	63	61	75	133	155	131	140	138	131
Doctoral	6	8	6	5	7	16	6	16	10	13	17	8	15	22	6	20	14	10
Research masters	148	153	212	200	205	212	210	204	168	171	253	166	239	287	283	291	335	398
Coursework masters	40	80	32	17	15	24	31	40	37	45	38	40	38	18	15	17	17	23
Other postgraduate	313	347	355	385	435	333	258	253	251	229	264	302	327	327	323	348	411	446
Bachelors	0	0	1	2	2	1	6	27	41	24	<5	18	11	18	18	13	18	19
Assoc degrees & Adv diplomas	0	0	0	1	1	0	0	0	1	24	53	26	44	66	65	47	23	25
Diplomas	0	0	0	8	16	21	9	16	18	0	0	0	0	0	0	0	8	55
Other undergraduate	526	604	626	647	710	635	555	577	569	569	687	635	807	893	845	922	1029	1115
Total																		

Source: Data provided by DET

Note: Cells with small numbers do not necessarily sum across Table components.

SOUTH AUSTRALIA

Table A13: Domestic Students Commencing Engineering and Related Technologies Courses in SA

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	33	41	68	48	34	46	53	35	41	43	46	45	64	55	65	41	36	37
Doctoral																		
Research masters	22	35	21	6	15	11	3	35	9	11	9	12	9	10	12	13	5	3
Coursework masters	12	20	30	52	21	53	70	52	66	88	85	83	88	80	67	67	48	28
Other postgraduate	12	16	23	31	13	28	14	59	83	48	69	77	56	49	43	14	24	11
Bachelors	642	607	586	574	566	646	583	636	797	799	849	956	1031	991	950	847	827	806
Ass degrees & Adv diplomas	0	0	0	0	0	1	0	82	59	46	36	51	123	125	95	136	130	118
Diplomas	4	11	3	6	0	0	0	0	0	<5	14	23	15	32	21	21	37	9
Other undergraduate	82	45	45	51	33	0	0	17	6	11	25	31	31	3	2	2	0	3
Total	807	775	776	768	682	785	723	916	1061	1048	1133	1278	1417	1345	1255	1141	1107	1015

Women	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	5	12	17	16	8	12	11	10	10	8	9	11	17	17	16	22	22	9
Doctoral																		
Research masters	5	4	3	1	1	1	1	10	1	<5	1	<5	7	0	<5	<5	<5	2
Coursework masters	0	2	2	9	3	13	4	17	16	12	15	15	18	20	13	18	5	7
Other postgraduate	3	3	1	1	5	6	4	14	20	16	21	23	18	22	17	<5	6	4
Bachelors	109	101	97	79	75	70	101	99	136	127	128	152	142	153	183	151	140	187
Ass degrees & Adv diplomas	0	0	0	0	1	0	0	4	9	8	4	8	10	15	6	17	16	16
Diplomas	0	2	2	1	0	0	0	0	0	0	1	<5	<5	<5	<5	<5	<5	3
Other undergraduate	7	8	20	12	9	0	0	4	2	<5	3	8	6	0	<5	0	0	0
Total	129	132	142	119	102	102	121	158	194	176	182	220	219	228	240	217	194	228

All domestic commencements	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	38	53	85	64	42	58	64	45	51	51	55	56	81	72	81	63	58	46
Doctoral																		
Research masters	27	39	24	7	16	12	4	45	10	11	10	14	16	10	12	13	5	5
Coursework masters	12	22	32	61	24	66	74	69	82	100	100	98	106	100	80	85	53	35
Other postgraduate	15	19	24	32	18	34	18	73	103	64	90	100	74	71	60	14	30	15
Bachelors	751	708	683	653	641	716	684	735	933	926	977	1108	1173	1144	1133	998	967	993
Ass degrees & Adv diplomas	0	0	0	0	1	1	0	86	68	54	40	59	133	140	101	153	146	134
Diplomas	4	13	5	7	0	0	0	0	0	0	15	24	16	33	21	21	37	12
Other undergraduate	89	53	65	63	42	0	0	21	8	11	28	39	37	<5	2	2	0	3
Total	936	907	918	887	784	887	844	1074	1255	1224	1315	1498	1636	1573	1495	1358	1301	1243

Source: Data provided by DET

SOUTH AUSTRALIA

Table A14: Overseas Students Commencing Engineering and Related Technologies Courses in SA

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	15	16	27	22	14	24	23	23	41	45	39	55	48	43	42	30	40	40
Doctoral	5	7	12	17	4	4	10	7	9	5	5	<5	5	0	<5	7	4	6
Research masters	79	93	213	401	287	317	336	305	316	231	253	248	235	281	266	287	273	414
Coursework masters	3	2	1	3	36	15	8	10	33	31	47	16	13	8	<5	3	3	6
Other postgraduate	243	282	278	266	270	314	450	618	562	536	566	459	414	501	325	350	430	402
Bachelors	0	0	0	0	0	0	0	0	0	<5	<5	<5	9	7	<5	7	15	29
Ass degrees & Adv diplomas	0	22	0	0	41	38	61	10	56	74	76	66	116	228	150	184	144	88
Diplomas	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	345	422	531	709	654	714	888	973	1017	925	987	846	840	1068	788	868	909	905
Total																		

Women	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	8	5	8	6	6	7	8	14	14	13	14	27	16	18	17	16	19	13
Doctoral	3	0	0	4	2	0	1	0	0	<5	5	<5	<5	0	<5	0	2	2
Research masters	14	21	41	49	41	37	56	78	73	58	53	35	49	64	73	58	67	81
Coursework masters	0	0	0	0	4	0	0	2	8	6	<5	<5	<5	0	<5	2	2	2
Other postgraduate	32	47	41	49	61	61	81	106	101	81	97	86	86	91	99	89	111	110
Bachelors	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5	<5	1	2	7
Ass degrees & Adv diplomas	0	18	0	0	44	67	55	1	8	<5	6	7	7	25	21	26	16	8
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	57	91	90	108	158	172	201	201	204	164	175	157	164	199	213	192	219	223
Total																		

All overseas commencements	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	23	21	35	28	20	31	31	37	55	58	53	82	64	61	59	46	59	53
Doctoral	8	7	12	21	6	4	11	7	9	5	10	<5	6	0	0	7	6	8
Research masters	93	114	254	450	328	354	392	383	389	289	306	283	284	345	339	345	340	495
Coursework masters	3	2	1	3	40	15	8	12	41	37	47	17	17	8	0	5	5	8
Other postgraduate	275	329	319	315	331	375	531	724	663	617	663	545	500	592	424	439	541	512
Bachelors	0	0	0	0	0	0	0	0	0	0	0	<5	10	8	0	8	17	36
Ass degrees & Adv diplomas	0	40	0	0	85	105	116	11	64	74	82	73	123	253	171	210	160	96
Diplomas	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	402	513	621	817	812	886	1089	1174	1221	1089	1162	1003	1004	1267	1001	1060	1128	1128
Total																		

Source: Data provided by DET

SOUTH AUSTRALIA

Table A15: Domestic Students Completing Engineering and Related Technologies Courses in SA

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	25	25	36	35	25	28	31	48	39	37	27	24	34	32	37	47	49	47
Doctoral	6	5	7	6	8	9	2	10	8	8	<5	<5	5	5	6	<5	<5	6
Research masters	20	12	15	18	22	15	11	40	49	60	63	62	63	72	80	68	55	48
Coursework masters	12	10	12	17	17	21	13	54	44	83	83	101	98	134	109	56	27	42
Other postgraduate	318	375	416	307	377	360	369	384	356	479	432	400	473	487	555	549	544	552
Bachelors	0	0	0	0	0	0	0	0	7	15	11	5	26	7	22	31	44	38
Assoc degrees & Adv diplomas	3	5	1	2	1	1	1	0	0	0	<5	10	<5	<5	5	5	22	12
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	384	432	487	385	450	434	427	536	503	682	620	605	701	741	814	758	745	745
Total	384	432	487	385	450	434	427	536	503	682	620	605	701	741	814	758	745	745

Women	6	6	5	4	8	11	8	17	8	10	6	8	10	12	9	14	13	17
Doctoral	4	3	2	2	1	0	0	2	2	0	<5	<5	5	<5	<5	<5	0	0
Research masters	0	1	1	2	3	3	0	6	8	8	14	11	14	16	16	23	10	17
Coursework masters	3	2	2	2	3	1	3	19	6	21	21	27	24	65	35	18	9	7
Other postgraduate	77	88	81	67	63	64	55	43	70	63	80	63	80	83	91	107	80	93
Bachelors	0	0	0	0	0	0	0	0	1	<5	<5	<5	<5	<5	<5	<5	<5	7
Assoc degrees & Adv diplomas	0	1	0	0	0	1	1	0	0	0	0	0	<5	0	0	0	<5	<5
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	0	<5	<5
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	90	101	91	77	78	80	67	87	95	105	126	113	136	179	156	167	115	142

All domestic completions	31	31	41	39	33	39	39	65	47	47	33	32	44	44	46	61	62	64
Doctoral	10	8	9	8	9	9	2	12	10	8	5	5	10	6	6	0	0	6
Research masters	20	13	16	20	25	18	11	46	57	68	77	73	77	88	96	91	65	65
Coursework masters	15	12	14	19	20	22	16	73	50	104	104	128	122	199	144	74	36	49
Other postgraduate	395	463	497	374	440	424	424	427	426	542	512	463	553	570	646	656	624	645
Bachelors	0	0	0	0	0	0	0	0	8	18	13	7	28	9	22	31	44	45
Assoc degrees & Adv diplomas	3	6	1	2	1	2	2	0	0	0	<5	10	<5	5	5	5	22	12
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	474	533	578	462	528	514	494	623	598	787	746	718	837	920	970	925	860	887
Total	474	533	578	462	528	514	494	623	598	787	746	718	837	920	970	925	860	887

Source: Data provided by DET

Note: Small cells accurately included in panel totals but not necessarily in summation of cells across Table.

SOUTH AUSTRALIA

Table A16: Overseas Students Completing Engineering and Related Technologies Courses in SA

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Level																			
Doctoral	4	6	7	9	7	12	18	16	10	25	8	14	29	31	33	33	27	20	
Research masters	2	0	3	3	3	7	5	5	5	<5	5	5	<5	<5	<5	<5	<5	<5	
Coursework masters	77	45	106	129	291	272	305	362	295	298	244	253	235	189	213	232	212	232	
Other postgraduate	10	16	22	11	21	39	12	20	22	36	59	35	15	19	15	5	<5	6	
Bachelors	58	114	202	227	208	194	184	235	326	388	350	365	387	482	317	347	342	254	
Assoc degrees & Adv diplomas	0	0	0	0	0	0	8	0	0	0	<5	<5	<5	<5	6	<5	<5	7	
Diplomas	0	0	5	10	12	36	28	58	16	40	51	34	47	81	73	96	111	67	
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	151	181	345	389	542	560	560	696	674	791	718	709	720	808	661	718	699	590	

Women																			
Doctoral	0	1	6	2	3	3	1	4	3	5	<5	6	9	6	16	11	10	6	
Research masters	2	0	1	0	1	2	1	1	1	<5	<5	0	<5	<5	<5	<5	0	0	
Coursework masters	7	9	30	46	44	37	37	65	70	68	64	56	40	39	43	58	51	47	
Other postgraduate	3	2	4	0	2	3	1	10	4	<5	7	<5	<5	<5	<5	<5	<5	<5	
Bachelors	19	29	38	37	35	38	45	59	63	62	49	73	78	85	68	67	64	90	
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	<5	
Diplomas	0	0	10	23	7	43	44	47	0	<5	<5	5	6	8	17	15	11	12	
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	31	41	89	108	92	126	129	186	141	142	128	141	139	141	149	156	137	162	

All overseas completions																			
Doctoral	4	7	13	11	10	15	19	20	13	30	11	20	38	37	49	44	37	26	
Research masters	4	0	4	3	4	9	6	6	6	5	7	5	6	<5	0	0	0	0	
Coursework masters	84	54	136	175	335	309	342	427	365	366	308	309	275	228	256	290	263	279	
Other postgraduate	13	18	26	11	23	42	13	30	26	39	66	36	19	21	15	5	0	6	
Bachelors	77	143	240	264	243	232	229	294	389	450	399	438	465	567	385	414	406	344	
Assoc degrees & Adv diplomas	0	0	0	0	0	0	8	0	0	0	<5	<5	<5	<5	6	0	0	7	
Diplomas	0	0	15	33	19	79	72	105	16	43	54	39	53	89	90	111	122	79	
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	182	222	434	497	634	686	689	882	815	933	846	850	859	949	810	874	836	752	

Source: Data provided by DET
 Note: Small cells accurately included in panel totals but not necessarily in summation of cells across Table.

WESTERN AUSTRALIA

Table A17: Domestic Students Commencing Engineering and Related Technologies Courses in WA

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	28	31	47	55	29	23	32	33	49	59	57	38	48	55	67	59	58	42
Doctoral	15	7	8	7	9	8	9	33	22	24	18	17	13	23	27	27	15	9
Research masters	34	39	28	52	46	55	59	67	108	88	118	82	74	225	406	430	354	276
Coursework masters	15	23	46	48	54	76	56	180	234	134	114	127	82	104	52	72	56	38
Other postgraduate	884	924	971	980	1009	1187	1253	1318	1415	1579	1707	1100	1142	1122	883	924	866	851
Bachelors	16	12	12	17	21	<10	4	0	4	7	6	<5	6	0	0	0	0	0
Ass degrees & Adv diplomas	0	0	0	0	0	<10	12	10	12	14	14	16	45	55	57	80	88	114
Diplomas	1	1	4	1	4	2	31	63	95	144	169	152	186	168	0	0	0	0
Other undergraduate	993	1037	1116	1160	1172	1351	1456	1704	1939	2049	2203	1536	1596	1752	1492	1592	1437	1330
Total																		

Women	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	9	14	5	8	11	2	5	13	21	15	10	23	20	23	21	23	12	12
Doctoral	2	2	3	5	5	1	1	13	5	5	4	8	7	<5	8	6	7	2
Research masters	6	6	3	7	10	10	11	19	16	18	18	14	14	66	99	69	68	60
Coursework masters	3	7	7	12	12	14	20	16	15	34	28	33	30	25	15	22	14	16
Other postgraduate	156	170	173	167	157	188	217	222	239	260	274	169	146	170	132	113	106	113
Bachelors	2	7	2	2	5	0	<10	0	0	1	0	<5	0	0	0	0	0	0
Ass degrees & Adv diplomas	0	0	0	0	0	0	<10	2	3	2	2	<5	7	<5	5	10	11	13
Diplomas	15	18	16	8	11	9	14	14	32	78	90	74	79	62	0	0	0	0
Other undergraduate	193	224	209	209	211	224	268	299	331	413	426	325	303	351	280	243	218	216
Total																		

All domestic students	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	37	45	52	63	40	25	37	46	70	74	67	61	68	78	88	82	70	54
Doctoral	17	9	11	12	14	9	10	46	27	29	22	25	20	26	35	33	22	11
Research masters	40	45	31	59	56	65	70	86	124	106	136	96	88	291	505	499	422	336
Coursework masters	18	30	53	60	66	90	76	196	249	168	142	160	112	129	67	94	70	54
Other postgraduate	1040	1094	1144	1147	1166	1375	1470	1540	1654	1839	1981	1269	1288	1292	1015	1037	972	964
Bachelors	18	19	14	19	26	0	4	0	4	8	6	6	6	0	0	0	0	0
Ass degrees & Adv diplomas	0	0	0	0	0	0	12	12	15	16	16	18	52	57	62	90	99	127
Diplomas	16	19	20	9	15	11	45	77	127	222	259	226	265	230	0	0	0	0
Other undergraduate	1186	1261	1325	1369	1383	1575	1724	2003	2270	2462	2629	1861	1899	2103	1772	1835	1655	1546
Total																		

Source: Data provided by DET

WESTERN AUSTRALIA

Table A18: Overseas Students Commencing Engineering and Related Technologies Courses in WA

Men																		
Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	25	22	15	22	25	25	41	51	72	53	67	73	62	88	66	58	68	83
Research masters	7	8	10	8	16	10	5	6	9	11	7	8	12	14	13	14	6	8
Coursework masters	30	39	48	97	392	237	179	209	218	200	186	234	245	367	522	634	537	583
Other postgraduate	0	0	2	5	8	22	35	53	86	57	57	74	90	25	23	21	17	10
Bachelors	173	214	325	430	432	451	491	581	636	768	767	663	607	715	767	831	585	625
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	4	9	29	5	<5	0	0	2	0	0
Diplomas	0	0	0	0	0	0	98	71	101	139	133	103	192	249	252	210	259	225
Other undergraduate	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0
Total	235	283	400	562	873	745	849	981	1126	1237	1246	1160	1211	1458	1643	1770	1470	1534
Women																		
Doctoral	1	3	5	6	8	5	15	33	32	11	21	21	17	33	26	22	21	17
Research masters	1	4	2	1	2	4	2	5	3	5	5	<5	5	5	6	5	4	4
Coursework masters	1	5	6	15	85	36	24	32	28	44	25	40	39	57	92	97	123	106
Other postgraduate	0	1	0	3	3	2	5	5	6	10	14	15	18	<5	7	10	3	7
Bachelors	24	78	113	114	130	117	114	154	161	190	210	135	157	161	205	149	160	137
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	1	0	<5	0	0	0	1	0	0
Diplomas	0	0	0	0	0	0	18	12	15	25	11	16	19	23	16	24	53	34
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	27	91	126	139	228	164	178	241	245	286	286	232	255	281	352	308	364	305
All overseas students																		
Doctoral	26	25	20	28	33	30	56	84	104	64	88	94	79	121	92	80	89	100
Research masters	8	12	12	9	18	14	7	11	12	16	12	12	17	19	19	19	10	12
Coursework masters	31	44	54	112	477	273	203	241	246	244	211	274	284	424	614	731	660	689
Other postgraduate	0	1	2	8	11	24	40	58	92	67	71	89	108	27	30	31	20	17
Bachelors	197	292	438	544	562	568	605	735	797	958	977	798	764	876	972	980	745	762
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	4	10	29	6	<5	0	0	3	0	0
Diplomas	0	0	0	0	0	0	116	83	116	164	144	119	211	272	268	234	312	259
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	262	374	526	701	1101	909	1027	1222	1371	1523	1532	1392	1466	1739	1995	2078	1834	1839

Source: Data provided by DET

WESTERN AUSTRALIA

Table A19: Domestic Students Completing Engineering and Related Technologies Courses in WA

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	11	15	24	26	25	18	30	50	30	20	21	30	25	29	47	44	44	36
Doctoral																		
Research masters	10	5	5	10	3	3	10	3	8	11	<5	13	11	6	<5	9	11	3
Coursework masters	22	18	22	23	21	26	29	45	37	59	67	68	80	79	124	221	315	366
Other postgraduate	28	14	22	17	30	41	42	46	49	69	118	83	94	103	100	76	55	44
Bachelors	485	554	576	519	492	577	592	595	654	630	767	743	779	814	789	655	564	536
Assoc degrees & Adv diplomas	0	0	3	0	0	0	2	2	0	<5	0	<5	<5	<5	0	<5	0	0
Diplomas	0	0	0	0	0	0	12	12	6	<5	0	<5	<5	25	21	38	27	19
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	556	606	652	595	571	665	717	753	784	792	977	942	995	1059	1083	1045	1016	1004

Women	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	3	5	6	7	7	9	12	7	7	8	<5	7	10	12	9	10	19	28
Doctoral																		
Research masters	1	1	0	5	0	0	0	2	2	<5	<5	<5	<5	<5	<5	6	<5	<5
Coursework masters	0	1	6	3	1	2	8	6	7	16	14	10	13	14	34	59	70	75
Other postgraduate	2	3	3	4	6	7	9	10	12	11	20	20	31	33	23	19	122	15
Bachelors	120	129	124	110	102	116	101	100	114	121	132	129	141	140	124	105	99	65
Assoc degrees & Adv diplomas	1	0	0	1	0	0	0	0	0	0	0	0	<5	0	0	0	0	0
Diplomas	0	0	0	0	0	0	7	6	0	0	0	0	<5	<5	<5	<5	<5	<5
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	127	139	139	130	116	134	137	131	142	158	171	167	201	203	198	200	205	186

All domestic students	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	14	20	30	33	32	27	42	57	37	28	22	37	35	41	56	54	63	64
Doctoral																		
Research masters	11	6	5	15	3	3	10	5	10	13	8	14	14	8	0	15	11	3
Coursework masters	22	19	28	26	22	28	37	51	44	75	81	78	93	93	158	280	385	441
Other postgraduate	30	17	25	21	36	48	51	56	61	80	138	103	125	136	123	95	177	59
Bachelors	605	683	700	629	594	693	693	695	768	751	899	872	920	954	913	760	663	601
Assoc degrees & Adv diplomas	1	0	3	1	0	0	2	2	0	<5	0	<5	5	<5	0	0	0	0
Diplomas	0	0	0	0	0	0	19	18	6	<5	0	<5	<5	27	21	38	27	19
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	683	745	791	725	687	799	854	884	926	950	1148	1109	1196	1262	1281	1245	1221	1190

Source: Data provided by DET

WESTERN AUSTRALIA

Table A20: Overseas Students Completing Engineering and Related Technologies Courses in WA

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	7	1	10	7	19	18	19	20	17	27	33	46	43	35	50	70	43	63
Doctoral	5	2	2	8	7	10	9	5	7	5	8	9	7	6	6	9	9	12
Research masters	16	31	39	45	63	73	105	123	138	163	226	197	220	213	291	348	410	449
Coursework masters	2	0	0	1	6	14	32	32	51	79	66	55	86	57	34	17	10	15
Other postgraduate	73	95	94	130	124	174	224	298	308	314	459	424	456	478	405	457	454	517
Bachelors	0	0	0	0	0	0	0	0	0	<5	0	10	11	<5	0	0	0	0
Assoc degrees & Adv diplomas	0	0	0	0	0	0	94	104	72	<5	25	27	43	148	168	144	137	138
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	103	129	145	191	219	289	483	582	593	596	817	768	866	940	954	1045	1063	1194
Total																		

Women	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	0	2	0	3	2	2	9	3	8	5	17	16	11	18	10	15	18	12
Doctoral	1	0	1	1	3	1	1	1	3	<5	<5	<5	<5	<5	<5	<5	<5	5
Research masters	3	2	5	12	14	11	13	19	17	20	33	36	39	41	44	53	93	86
Coursework masters	1	0	1	1	3	3	6	5	6	12	14	7	14	16	8	6	9	5
Other postgraduate	20	19	35	48	45	73	94	117	87	94	138	123	127	135	119	113	138	136
Bachelors	0	0	0	0	0	0	0	0	0	0	0	<5	<5	0	0	0	0	0
Assoc degrees & Adv diplomas	0	0	0	0	0	0	28	20	12	<5	<5	<5	<5	15	16	11	31	37
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	25	23	42	65	67	90	151	165	133	134	208	187	195	229	200	202	293	281
Total																		

All overseas students	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	7	3	10	10	21	20	28	23	25	32	50	62	54	53	60	85	61	75
Doctoral	6	2	3	9	10	11	10	6	10	7	12	11	8	10	6	9	9	17
Research masters	19	33	44	57	77	84	118	142	155	183	259	233	259	254	335	401	503	535
Coursework masters	3	0	1	2	9	17	38	37	57	91	80	62	100	73	42	23	19	20
Other postgraduate	93	114	129	178	169	247	318	415	395	408	597	547	583	613	524	570	592	653
Bachelors	0	0	0	0	0	0	0	0	0	<5	0	11	12	<5	0	0	0	0
Assoc degrees & Adv diplomas	0	0	0	0	0	0	122	124	84	5	27	29	45	163	184	155	168	175
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	128	152	187	256	286	379	634	747	726	730	1025	955	1061	1169	1154	1247	1356	1475
Total																		

Source: Data provided by DET

Note: Small cells accurately included in panel totals but not necessarily in summation of cells across Table.

TASMANIA

Table A21: Domestic Students Commencing Engineering and Related Technologies Courses in Tasmania

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level																		
Doctoral	1	4	10	7	5	6	5	3	8	16	<5	8	<5	9	8	10	10	<5
Research masters	9	3	3	2	9	3	2	3	2	5	<5	7	<5	<5	<5	0	<5	<5
Coursework masters	0	0	0	0	0	0	0	0	0	0	<5	5	7	10	13	8	6	6
Other postgraduate	6	4	2	3	8	4	5	4	8	42	37	27	46	47	48	25	12	12
Bachelors	175	159	163	162	141	120	175	150	185	179	211	250	413	368	347	273	295	207
Assoc degrees & Adv diplomas	8	21	26	31	44	29	57	47	86	73	74	10	0	0	<5	8	<5	<5
Diplomas	22	56	39	39	45	42	81	72	58	55	65	50	0	0	0	0	0	0
Other undergraduate	82	434	471	429	275	316	328	0	0	0	0	38	0	0	0	0	0	0
Total	303	681	714	673	527	520	653	279	347	370	395	395	473	437	424	324	325	231

Women																		
Doctoral	0	2	1	0	1	2	1	0	2	3	0	<5	<5	<5	<5	2	<5	<5
Research masters	1	0	1	0	0	0	0	0	0	2	0	0	0	0	<5	0	<5	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	<5	<5	<5	0	0	0	<5
Other postgraduate	0	2	0	5	3	4	1	6	7	12	9	15	8	10	7	8	<5	<5
Bachelors	25	17	7	13	14	7	17	16	18	22	22	24	33	34	35	24	38	29
Assoc degrees & Adv diplomas	0	1	0	0	3	1	2	4	5	4	<5	0	0	0	0	0	<5	0
Diplomas	0	2	1	0	0	1	2	5	6	3	0	<5	0	0	0	0	0	0
Other undergraduate	3	22	14	7	4	3	11	0	0	0	0	<5	0	0	0	0	0	0
Total	29	46	24	25	25	18	34	31	38	45	34	50	43	47	44	34	44	35

All Domestic Commencements																		
Doctoral	1	6	11	7	6	8	6	3	10	19	<5	11	5	10	8	12	10	0
Research masters	10	3	4	2	9	3	2	3	2	7	<5	7	<5	<5	0	0	0	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	<5	7	8	12	13	8	6	6
Other postgraduate	6	6	2	8	11	8	6	10	15	54	46	42	54	57	55	33	12	12
Bachelors	200	176	170	175	155	127	192	166	203	201	233	274	446	402	382	297	333	236
Assoc degrees & Adv diplomas	8	22	26	31	47	30	59	51	91	77	77	10	0	0	0	8	0	0
Diplomas	22	58	40	39	45	43	83	77	64	57	65	53	0	0	0	0	0	0
Other undergraduate	85	456	485	436	279	319	339	0	0	0	0	41	0	0	0	0	0	0
Total	332	727	738	688	552	538	687	310	385	415	429	445	516	484	468	358	369	266

Source: Data provided by DET
 Note: Cells with small numbers do not necessarily sum across Table components but are included in totals.

TASMANIA

Table A22: Overseas Students Commencing Engineering and Related Technologies Courses in Tasmania

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level																		
Doctoral	1	2	3	2	3	2	0	0	2	<5	5	17	9	13	7	17	14	12
Research masters	1	3	0	1	1	1	2	1	0	<5	<5	<5	<5	0	<5	<5	0	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5	11	22	31	52
Other postgraduate	0	11	0	0	0	0	0	0	0	<5	0	0	<5	<5	<5	0	<5	<5
Bachelors	58	51	57	72	68	30	80	123	141	173	173	81	119	137	108	161	172	143
Assoc degrees & Adv diplomas	12	14	7	13	34	7	50	16	35	37	35	0	0	33	23	20	20	11
Diplomas	1	7	12	17	23	10	8	2	3	7	<5	49	5	0	0	0	0	0
Other undergraduate	2	6	4	10	5	30	1	0	0	<5	0	<5	0	0	0	0	0	0
Total	75	94	83	115	134	80	141	142	181	226	215	150	144	189	152	221	241	220

Women																		
Doctoral	1	0	1	0	0	0	0	0	0	<5	<5	<5	0	0	<5	0	<5	<5
Research masters	0	1	0	0	0	1	0	0	0	0	0	0	0	0	<5	0	0	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5	0	<5	<5	5
Other postgraduate	0	3	0	0	0	2	0	0	1	0	<5	<5	<5	<5	<5	<5	0	0
Bachelors	9	8	10	8	5	5	16	34	49	55	27	20	19	18	24	17	31	35
Assoc degrees & Adv diplomas	0	0	0	1	0	0	0	0	1	<5	<5	0	0	0	0	0	<5	<5
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	10	13	12	9	5	8	16	34	51	57	30	23	21	23	30	23	40	43

All Overseas Commencements	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	2	2	4	2	3	2	0	0	2	5	6	19	9	13	7	17	14	12
Research masters	1	4	0	1	1	2	2	1	0	<5	<5	<5	<5	0	0	0	0	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	5	8	11	22	31	57
Other postgraduate	0	14	0	0	0	2	0	0	1	<5	<5	<5	5	<5	0	0	0	0
Bachelors	67	59	67	80	73	35	96	157	190	228	200	101	138	155	132	178	203	178
Assoc degrees & Adv diplomas	12	14	7	14	34	7	50	16	36	38	36	0	0	33	23	20	20	11
Diplomas	1	7	12	17	23	10	8	2	3	<5	<5	49	5	0	0	0	0	0
Other undergraduate	2	7	5	10	5	30	1	0	0	0	0	<5	0	0	0	0	0	0
Total	85	107	95	124	139	88	157	176	232	283	245	173	165	212	182	244	281	263

Source: Data provided by DET
 Note: Cells with small numbers do not necessarily sum across Table components but are included in totals.

TASMANIA

Table A23: Domestic Students Completing Engineering and Related Technologies Courses in Tasmania

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	5	9	2	2	2	5	4	3	5	5	6	<5	<5	6	5	5	5	14
Doctoral	4	3	3	0	1	0	3	1	0	<5	<5	<5	0	<5	0	<5	0	<5
Research masters	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	<5	<5	<5	5
Coursework masters	3	4	2	2	3	3	4	1	2	<5	16	20	19	22	53	26	19	20
Other postgraduate	71	75	59	96	72	84	90	68	70	71	100	101	135	143	160	179	151	162
Bachelors	8	16	22	26	32	31	28	24	32	33	46	48	<5	9	<5	0	<5	<5
Assoc degrees & Adv diplomas	23	47	49	20	43	31	34	30	22	41	27	26	0	0	0	<5	<5	0
Diplomas	86	271	162	429	168	218	156	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	200	425	299	575	321	372	319	127	131	155	196	201	161	180	224	215	180	206

Women	0	1	1	0	0	1	0	0	0	<5	0	<5	<5	<5	<5	0	<5	0
Doctoral	1	1	0	0	1	0	0	0	0	0	0	0	<5	0	0	0	0	0
Research masters	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5	0	0	0	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5	0	0	0	0
Other postgraduate	9	12	9	18	10	11	7	9	4	8	9	<5	9	15	21	12	15	12
Bachelors	1	1	1	0	2	1	5	2	2	<5	<5	<5	0	0	0	0	0	0
Assoc degrees & Adv diplomas	0	1	1	0	0	1	0	1	1	0	<5	<5	0	0	0	0	0	0
Diplomas	1	13	4	1	4	3	4	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	12	29	16	21	20	20	18	14	10	14	20	18	15	22	34	18	21	15

All Domestic Completions	5	10	3	2	2	6	4	3	5	6	6	5	<5	8	5	5	5	14
Doctoral	5	4	3	0	2	0	3	1	0	<5	<5	<5	<5	<5	0	0	0	0
Research masters	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5	0	0	0	5
Coursework masters	3	4	2	4	6	6	6	3	5	5	24	29	23	26	65	32	19	20
Other postgraduate	80	87	68	114	82	95	97	77	74	79	109	105	144	158	181	191	166	174
Bachelors	9	17	23	26	34	32	33	26	34	36	47	51	<5	9	0	0	0	0
Assoc degrees & Adv diplomas	23	48	50	20	43	32	34	31	23	41	29	27	0	0	0	0	0	0
Diplomas	87	284	166	430	172	221	160	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	212	454	315	596	341	392	337	141	141	169	216	219	176	202	258	233	201	221

Source: Data provided by DET
 Note: Small cells accurately included in panel totals but do not necessarily sum across cells in Table.

TASMANIA

Table A24: Overseas Students Completing Engineering and Related Technologies Courses in Tasmania

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level																		
Doctoral	0	1	2	1	0	0	2	0	3	<5	0	<5	<5	<5	5	11	<5	12
Research masters	1	0	1	2	0	0	1	2	1	-	<5	0	0	0	0	<5	0	<5
Coursework masters	0	0	0	0	0	0	0	0	0	-	0	0	0	<5	<5	<5	18	12
Other postgraduate	0	0	0	0	0	0	0	0	0	-	0	0	<5	<5	<5	0	<5	0
Bachelors	42	43	25	39	46	49	30	34	37	68	59	47	47	60	58	122	129	136
Assoc degrees & Adv diplomas	15	18	11	11	19	9	12	13	20	11	15	15	<5	0	<5	10	10	0
Diplomas	1	17	8	10	8	6	3	3	2	<5	5	<5	<5	0	<5	0	0	18
Other undergraduate	1	4	1	4	2	12	0	0	0	0	0	0	0	0	0	0	0	0
Total	60	83	48	67	75	76	48	52	63	82	80	64	53	66	69	148	164	179

Women																		
Doctoral	1	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	<5	0
Research masters	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	<5
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5	<5	<5	5
Other postgraduate	1	0	0	0	0	1	0	0	0	0	0	0	0	0	<5	0	0	<5
Bachelors	8	5	5	6	4	7	2	5	8	14	20	16	<5	<5	14	10	25	20
Assoc degrees & Adv diplomas	0	0	0	1	0	0	0	0	0	<5	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	10	6	5	7	4	8	3	5	8	15	20	16	<5	6	18	11	30	28

All Overseas Completions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	1	1	2	1	0	0	2	0	3	<5	0	<5	<5	5	5	11	0	12
Research masters	1	0	1	2	0	0	2	2	1	0	<5	0	0	0	0	0	0	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	18	17
Other postgraduate	1	0	0	0	0	1	0	0	0	0	0	0	<5	<5	0	0	0	0
Bachelors	50	48	30	45	50	56	32	39	45	82	79	63	51	64	72	132	154	156
Assoc degrees & Adv diplomas	15	18	11	12	19	9	12	13	20	12	15	15	<5	0	0	10	10	0
Diplomas	1	17	8	10	8	6	3	3	2	<5	5	<5	<5	0	0	0	0	18
Other undergraduate	1	5	1	4	2	12	0	0	0	0	0	0	0	0	0	0	0	0
Total	70	89	53	74	79	84	51	57	71	97	100	80	57	72	87	159	194	207

Source: Data provided by DET
 Note: Small cells accurately included in panel totals but do not necessarily sum across cells in Table.

NORTHERN TERRITORY

Table A25: Domestic students commencing engineering and related technologies courses in the NT

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	0	0	0	1	4	0	0	1	1	<5	<5	<5	0	<5	0	<5	<5	<5
Doctoral	1	0	0	0	0	0	0	1	1	<5	<5	<5	0	<5	<5	0	<5	<5
Research masters	0	0	0	2	1	0	0	0	0	<5	<5	<5	<5	<5	<5	<5	<5	<5
Coursework masters	0	1	1	1	0	2	4	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	18	19	12	42	48	19	43	22	28	64	63	84	84	73	79	67	58	81
Bachelors	0	0	3	0	0	0	0	<10	5	8	9	8	10	24	12	17	16	18
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	15	51	65	47	45	39	33	22	21	23	16
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	19	20	16	46	53	21	47	39	86	143	124	140	135	136	118	108	102	122
Total																		

Women	0	0	0	1	0	0	0	0	0	0	0	0	<5	<5	0	0	0	0
Doctoral	0	0	1	0	0	0	0	0	0	0	0	0	0	<5	0	<5	0	0
Research masters	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5	<5	<5	0	<5
Coursework masters	0	5	6	2	0	2	3	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	2	1	3	8	5	2	3	5	6	9	15	13	10	17	16	11	9	13
Bachelors	0	0	0	0	0	0	0	0	0	0	<5	<5	<5	<5	<5	<5	<5	
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	<10	8	9	6	13	6	<5	<5	<5	
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other undergraduate	2	6	10	11	5	4	6	5	6	17	25	21	30	28	23	18	15	26
Total																		

All domestic commencements	0	0	0	2	4	0	0	1	1	<5	<5	<5	<5	<5	0	0	0	0
Doctoral	1	0	1	0	0	0	0	1	1	<5	<5	<5	0	<5	0	0	0	0
Research masters	0	0	0	2	1	0	0	0	0	<5	<5	<5	5	5	0	0	0	0
Coursework masters	0	6	7	3	0	4	7	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	20	20	15	50	53	21	46	27	34	73	78	97	94	90	95	78	67	94
Bachelors	0	0	3	0	0	0	0	0	5	8	10	10	12	26	12	17	16	18
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	15	51	73	56	51	52	39	22	21	23	24
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	21	26	26	57	58	25	53	44	92	160	149	161	165	164	141	126	117	148
Total																		

Source: Data provided by DET

NORTHERN TERRITORY

Table A26: Overseas students commencing engineering and related technologies courses in the NT

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	0	0	0	0	0	1	0	1	0	0	0	0	0	0	<5	<5	0	0
Doctoral	0	0	0	0	0	1	0	1	0	0	0	0	0	0	<5	<5	0	0
Research masters	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	0	0
Coursework masters	0	0	0	1	14	10	6	8	0	5	10	16	20	37	57	56	54	46
Other postgraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bachelors	0	1	1	2	5	1	3	3	8	<5	9	16	16	5	20	31	16	9
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	2	0	8	<5	0	<5	<5	0	0	0
Diplomas	0	0	0	0	0	0	0	1	2	9	<5	5	<5	7	0	<5	<5	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	3	19	12	9	13	12	18	31	39	39	53	80	92	71	55

Women	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	<5
Doctoral	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	<5
Research masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coursework masters	0	0	0	0	6	1	2	0	0	<5	<5	<5	<5	<5	6	5	12	7
Other postgraduate	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0
Bachelors	0	0	0	2	2	0	2	0	2	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	<5	<5	<5	<5	0	0	0	0	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	2	8	2	6	1	2	<5	5	5	<5	<5	9	8	15	10

All overseas commencements

Doctoral	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0
Research masters	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	0	0
Coursework masters	0	0	0	1	20	11	8	8	0	6	11	18	21	40	63	61	66	53
Other postgraduate	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0
Bachelors	0	1	1	4	7	1	5	3	10	5	12	18	17	6	20	31	16	9
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	2	0	8	<5	0	<5	0	0	0	0
Diplomas	0	0	0	0	0	0	0	1	2	10	5	6	<5	7	0	0	0	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	5	27	14	15	14	14	21	36	44	42	57	89	100	86	65

Source: Data provided by DET

Note: Small cells accurately included in panel totals but not necessarily in summation of cells across Table.

NORTHERN TERRITORY

Table A27: Domestic students completing engineering and related technologies courses in the NT

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	1	0	0	0	1	1	0	0	1	0	0	0	0	<5	0	<5	0	<5
Doctoral	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	<5	0	0
Research masters	0	0	0	1	0	0	0	0	0	0	<5	0	0	<5	0	<5	<5	<5
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Bachelors	2	10	2	3	3	8	4	10	5	15	19	12	6	12	16	17	19	27
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	<5	<5	<5	<5
Diplomas	0	0	0	0	0	0	0	0	0	5	16	9	14	16	8	7	<5	6
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3	10	2	4	7	10	5	10	6	20	36	23	20	30	25	28	23	38

Women	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Doctoral	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0
Research masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	0	0	0	1	1	1	0	0	0	0	0	<5	<5	<5	7	5	<5	<5
Bachelors	2	1	0	1	0	1	1	1	0	0	<5	<5	<5	0	0	0	0	0
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	<5	<5	<5	0	<5	0	0	<5
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	1	0	2	1	2	1	1	1	0	<5	<5	<5	<5	9	5	5	8

All domestic completions	1	0	0	0	1	1	0	0	2	0	0	0	0	<5	0	0	0	0
Doctoral	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Research masters	0	0	0	1	0	0	0	0	0	0	<5	0	0	<5	0	0	0	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0
Bachelors	4	11	2	4	3	9	5	11	5	15	20	13	8	15	23	22	19	27
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	17	11	16	11	16	16	8	7	0	6
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5	11	2	6	8	12	6	11	7	20	38	26	24	33	34	33	28	46

Source: Data provided by DET
 Note: Small cells accurately included in panel totals but do not necessarily add across cells in Table.

NORTHERN TERRITORY

Table A28: Overseas students completing engineering and related technologies courses in the NT

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	1	0	0	0	1	0	0	0	0	0	0	<5	0	0	0	0	0	0
Doctoral	1	0	0	0	1	0	0	0	0	0	0	<5	0	0	0	0	0	0
Research masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0
Coursework masters	0	0	0	1	2	8	5	7	2	<5	<5	<5	5	8	7	20	32	41
Other postgraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bachelors	0	0	0	0	1	0	0	1	2	0	<5	<5	5	5	7	7	8	7
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	<5	0	<5	<5	0	0	0
Diplomas	0	0	0	0	0	0	0	0	1	<5	<5	<5	<5	0	<5	<5	<5	<5
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	4	8	5	8	5	<5	6	5	13	14	18	29	41	49

Women	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Doctoral	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Research masters	0	0	0	0	0	0	0	0	0	0	0	<5	<5	<5	<5	<5	<5	5
Coursework masters	0	0	0	0	3	0	0	0	2	0	0	<5	<5	<5	<5	<5	<5	5
Other postgraduate	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Bachelors	0	0	0	0	0	0	0	1	0	0	0	<5	<5	0	0	<5	0	<5
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0
Diplomas	0	0	0	0	0	0	0	0	0	<5	<5	0	<5	<5	0	0	0	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	3	0	1	1	2	0	<5	<5	6	<5	<5	5	5	6

All overseas completions	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Doctoral	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Research masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coursework masters	0	0	0	1	5	8	5	7	4	0	0	0	5	8	7	20	32	46
Other postgraduate	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Bachelors	0	0	0	0	1	0	0	2	2	0	0	0	5	5	7	7	8	7
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	7	8	6	9	7	0	6	5	19	14	18	34	46	55

Source: Data provided by DET
 Note: Small cells accurately included in panel totals but do not necessarily add across cells in Table.

AUSTRALIAN CAPITAL TERRITORY

Table A29: Domestic students commencing engineering and related technologies courses in the ACT

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	7	6	19	23	23	18	19	19	11	19	19	18	22	15	19	12	12	12
Doctoral	2	5	3	5	2	0	2	19	6	<5	<5	<5	<5	<5	5	0	0	<5
Research masters	0	0	3	10	15	17	21	5	9	6	8	<5	<5	5	5	<5	6	<5
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	127	145	138	155	124	114	121	142	106	135	122	151	135	136	151	154	139	136
Bachelors	0	0	0	0	0	0	8	9	8	14	9	12	16	<5	0	0	0	0
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	136	156	163	193	164	149	171	194	140	176	161	185	178	158	180	170	162	157

Women	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	0	3	2	4	3	3	2	8	3	7	<5	8	5	7	<5	7	<5	7
Doctoral	0	1	1	0	0	1	1	8	0	<5	<5	0	0	<5	<5	<5	<5	0
Research masters	0	0	1	0	2	2	4	0	2	<5	<5	0	0	<5	<5	0	0	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	13	21	25	27	17	12	14	16	24	34	36	28	27	32	30	34	53	36
Bachelors	0	0	0	0	0	0	1	0	0	<5	<5	0	0	0	0	0	0	0
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	13	25	29	31	22	18	22	32	29	44	44	36	32	42	35	42	60	44

All domestic commencements

Level	7	9	21	27	26	21	21	27	14	26	22	26	27	22	19	19	12	19
Doctoral	2	6	4	5	2	1	3	27	6	<5	<5	<5	<5	<5	5	0	0	0
Research masters	0	0	4	10	17	19	25	5	11	7	10	<5	<5	6	5	0	6	0
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	140	166	163	182	141	126	135	158	130	169	158	179	162	168	181	188	192	172
Bachelors	0	0	0	0	0	0	9	9	8	15	11	12	16	<5	0	0	0	0
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	149	181	192	224	186	167	193	226	169	220	205	221	210	200	210	207	215	191

Source: Data provided by DET

Note: Small cells accurately included in panel totals but do not necessarily sum across cells in Table.

AUSTRALIAN CAPITAL TERRITORY

Table A30: Overseas students commencing engineering and related technologies courses in the ACT

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	6	6	7	7	11	10	11	15	19	24	33	22	22	21	28	31	29	34
Doctoral	0	1	2	2	1	1	2	2	1	<5	<5	<5	<5	<5	<5	<5	<5	0
Research masters	0	0	8	21	23	43	43	29	35	48	29	26	36	32	43	51	63	65
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	11	20	23	24	31	23	28	53	61	61	66	56	66	74	82	105	81	53
Bachelors	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	0	0	0
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	<5
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	17	27	40	54	66	77	84	99	116	137	130	105	129	130	155	190	182	155

Women	0	3	1	1	3	5	3	2	4	<5	10	5	7	6	13	<5	11	19
Doctoral	0	1	0	1	1	0	0	1	0	0	<5	0	0	0	0	0	0	<5
Research masters	0	0	2	5	7	4	8	1	8	11	<5	7	8	7	11	17	16	14
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	5	6	6	6	7	2	9	13	11	22	20	26	18	35	18	41	43	12
Bachelors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5	10	9	13	18	11	20	17	23	36	34	38	33	48	42	60	60	47

All overseas commencements	6	9	8	8	14	15	14	17	23	27	43	27	29	27	41	31	40	53
Doctoral	0	2	2	3	2	1	2	3	1	<5	<5	<5	<5	<5	0	0	0	0
Research masters	0	0	10	26	30	47	51	30	43	59	32	33	44	39	54	68	79	79
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	16	26	29	30	38	25	37	66	72	83	86	82	84	109	100	146	124	65
Bachelors	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0	0	0	0
Ass degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	22	37	49	67	84	88	104	116	139	173	164	143	162	178	195	245	251	197

Source: Data provided by DET
 Note: Small cells accurately included in panel totals but do not necessarily sum across cells in Table.

AUSTRALIAN CAPITAL TERRITORY

Table A31: Domestic students completing engineering and related technologies courses in the ACT

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	4	11	7	8	9	7	9	26	13	13	14	21	10	13	18	19	20	18
Research masters	0	2	2	2	2	1	0	1	3	<5	<5	<5	<5	<5	0	<5	0	<5
Coursework masters	0	0	1	1	3	6	17	6	8	5	<5	5	5	<5	<5	<5	<5	<5
Other postgraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bachelors	102	87	112	124	82	98	77	73	77	91	92	104	75	70	71	79	73	85
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	2	1	<5	<5	<5	<5	<5	8	6	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	106	100	122	135	96	112	103	108	102	114	112	135	94	92	100	108	98	109

Women

Doctoral	3	2	2	0	1	2	5	3	2	<5	<5	5	<5	8	<5	<5	8	5
Research masters	1	0	0	0	3	1	0	0	0	0	<5	0	0	0	0	<5	<5	<5
Coursework masters	0	0	0	0	1	0	4	1	0	<5	0	<5	<5	0	0	<5	<5	0
Other postgraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bachelors	15	17	22	12	12	13	15	26	16	7	13	14	21	24	21	19	22	23
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	1	0	0	0	0	0	<5	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	19	19	24	12	17	16	24	30	19	13	17	20	25	32	26	25	32	30

All domestic completions

Doctoral	7	13	9	8	10	9	14	29	15	17	17	26	13	21	18	19	28	23
Research masters	1	2	2	2	5	2	0	1	3	<5	<5	<5	<5	<5	0	0	0	0
Coursework masters	0	0	1	1	4	6	21	7	8	7	<5	6	6	<5	0	0	0	0
Other postgraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bachelors	117	104	134	136	94	111	92	99	93	98	105	118	96	94	92	98	95	108
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	2	2	<5	<5	<5	<5	<5	8	6	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	125	119	146	147	113	128	127	138	121	127	129	155	119	124	126	133	130	139

Source: Data provided by DET

Note: Small cells accurately included in panel totals but do not necessarily sum across cells in Table.

AUSTRALIAN CAPITAL TERRITORY

Table A32: Overseas students completing engineering and related technologies courses in the ACT

Men	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Level	5	1	0	3	4	4	7	8	2	6	19	9	13	13	21	17	16	16
Doctoral	2	1	0	0	2	2	0	2	3	<5	<5	<5	5	<5	<5	<5	<5	<5
Research masters	0	0	0	18	19	38	41	32	29	39	47	32	28	27	19	36	42	44
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	4	3	8	5	7	15	14	14	19	19	30	59	46	46	47	74	69	53
Bachelors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	11	5	8	26	32	59	62	56	53	65	97	102	92	88	88	131	128	117

Women	0	1	0	0	1	0	0	1	2	<5	<5	0	<5	<5	6	<5	7	<5
Doctoral	0	1	1	0	0	1	1	0	0	<5	0	0	0	0	<5	0	0	<5
Research masters	0	0	2	3	6	6	4	9	10	15	11	8	7	<5	13	6	14	14
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	1	0	0	2	4	1	0	4	2	7	8	14	19	27	17	26	16	25
Bachelors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	<5
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	2	3	5	11	8	5	14	14	26	22	22	27	33	37	35	38	44

All overseas completions	5	2	0	3	5	4	7	9	4	9	22	9	14	16	27	17	23	16
Doctoral	2	2	1	0	2	3	1	2	3	<5	<5	<5	5	<5	0	0	0	0
Research masters	0	0	2	21	25	44	45	41	39	54	58	40	35	30	32	42	56	58
Coursework masters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other postgraduate	5	3	8	7	11	16	14	18	21	26	38	73	65	73	64	100	85	78
Bachelors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Assoc degrees & Adv diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	12	7	11	31	43	67	67	70	67	91	119	124	119	121	125	166	166	161

Source: Data provided by DET
 Note: Small cells accurately included in panel totals but do not necessarily sum across cells in Table.



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