



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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Contents

1.	Executive Summary	1
2.	Objective	2
3.	Domestic students	2
4.	Overseas students	7
5.	National summary	11
6.	State and territory outcomes	17
6.1	Domestic students in entry level courses	17
6.2	Domestic students in post-graduate courses	18
6.3	Overseas students in entry level courses	18
6.4	Overseas students in post-graduate courses	19
7.	Increasing the supply of engineers	20
7.1	Engineering Technologists	20
7.2	Professional Engineers	21
7.3	Engineering degrees greater than four years in duration	23
7.4	Degree qualified engineers	23
7.5	Associate Engineers	23
7.6	Impact on the supply of engineers	28
APPE	ENDIX: STATE AND TERRITORY STATISTICS	29
New	South Wales	30
Victo	pria	34
Quee	ensland	38
South	h Australia	42
West	tern Australia	46
Tasm	ania	50
North	hern Territory	54
Austr	ralian Capital Territory	58

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.



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

304 421 427 472 204 742	366 304 424 427 472 204 742	ADE 26E 20A 424 427 472 20A 742	547 406 366 304 434 437 473 304 743		1 200 013 047 430 000 034 421 137 172 234 742 11824 12046 12014 11806 11703 11890 12736 13060 14359 15456 15926 1
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	901 8663 331 46	850 901 8574 8663 240 331 45 46	8667 8574 8663 233 240 331 42 45 46	8792 8667 8574 8663 232 233 240 331 67 42 45 46	212 232 233 240 331 26 67 42 45 46

Women

162	25	346	94	2587	119	62	2	3397	
181	43	335	115	2318	100	60	3	3155	
172	52	355	118	2254	115	55	76	3197	
181	49	392	155	2262	127	23	0	3189	
183	50	392	184	2285	114	43	133	3384	
166	55	333	229	2140	175	47	188	3333	
166	57	267	117	1856	140	26	326	2955	
141	48	275	109	1827	102	25	360	2887	
164	59	257	225	1810	136	25	220	2896	
143	51	238	221	1752	81	33	116	2635	
118	44	212	216	1597	83	21	89	2380	
101	55	178	162	1591	65	15	97	2264	
108	46	184	198	1375	42	2	86	2041	
113	60	149	191	1257	42	0	64	1876	
150	78	169	167	1336	<10	<10	27	1936	
123	76	167	159	1422	17	3	52	2019	
142	74	158	175	1486	32	4	54	2125	
128	52	152	194	1638	14	0	29	2207	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & advanced diplomas	Diplomas	Other undergraduate	Total	

All domestic commencements

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	599	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	4238
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	1102	1052	483	388	0	188	11	7
Total	14031	14171	14033	13742	13579	13931	15000	15440	16994	18352	18813	19710	21433	21456	20418	19902	18826	8855
Source: Data provided by the DET																		

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

Men

54941	55768	57121	57658	57536	56371	53661	51347	49227	46327	43665	42056	40425	39754	40290	40545	40232	39590	Total
7	6	83	93	317	360	355	1112	324	210	172	449	450	414	526	579	580	247	Other undergraduate
787	783	680	631	668	533	469	402	374	281	196	191	73	69	56	68	87	46	Diplomas
2444	2462	2661	2932	3093	3396	5006	2716	2458	1897	1501	1070	799	651	624	593	618	628	Assoc degrees & advanced diplomas
43671	43850	44876	45157	44801	43618	41619	40009	38453	36852	35119	33759	32553	31994	32405	32769	32872	32934	Bachelors
866	956	1101	1402	1686	1754	1792	916	1731	1689	1715	1634	1717	1709	1662	1682	1494	1509	Other postgraduate
4056	4389	4401	4189	3923	3650	3376	3205	3001	2626	2259	2076	1884	1880	1905	1874	1713	1459	Coursework masters
403	463	519	559	535	514	547	564	615	561	491	590	635	673	747	741	810	778	Research masters
2707	2856	2800	2695	2513	2546	2497	2422	2271	2211	2212	2287	2314	2364	2365	2239	2058	1989	Doctoral
2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	Level

Women

_									
957	90	958	193	8583	271	89	2	11143	
1021	127	953	219	8035	257	75	3	10690	
988	141	957	227	7846	276	64	92	10591	
922	153	970	296	7598	308	48	75	10370	
859	149	899	365	7334	308	63	158	10135	
843	148	784	423	6929	356	99	216	9765	
807	142	685	211	6464	305	38	444	9606	
761	140	651	202	6380	264	469	246	8904	
711	154	629	422	6203	282	43	230	8674	
655	136	538	396	5874	198	44	136	7977	
640	131	505	407	5574	180	32	109	7578	
630	142	460	374	5299	132	18	113	7168	
621	162	429	405	5069	81	4	102	6873	
635	184	388	363	5117	53	1	72	6813	
636	187	390	344	5416	29	1	34	7037	
599	173	376	334	5675	45	3	60	7265	
562	158	343	346	5839	54	4	61	7367	
562	159	314	327	5896	35	0	34	7327	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & advanced diplomas	Diplomas	Other undergraduate	Total	

Domestic students

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 5	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	6
Total	46917	47599	47810	47327	46567	47298	49224	51243	54304	57901	60251	62757	66136	67671	68028	67712	66458	6084

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

Men

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	261	317	333	335	357	390	410	389	380	370	306	382	403	416	463	440	478	457
Research masters	119	114	120	125	102	105	100	102	81	76	64	81	103	80	74	80	82	63
Coursework masters	529	511	551	538	521	487	548	564	649	834	873	696	1116	1158	1244	1290	1310	1308
Other postgraduate	344	279	337	327	298	350	347	413	485	526	302	250	629	621	692	528	453	386
Bachelors	5034	4753	4847	5005	4732	5062	4931	5184	5161	5320	5649	5777	6016	6258	6546	6610	6588	7028
Assoc degrees & advanced diplomas	135	122	90	92	87	83	121	155	254	285	300	475	440	473	516	463	457	493
Diplomas	27	54	51	23	47	35	62	51	55	100	120	133	132	244	221	264	261	254
Other undergraduate	108	279	206	443	168	218	156	0	0	0	328	315	0	0	0	26	0	0
Total	6557	6429	6535	6888	6312	6730	6675	6858	7065	7511	7942	8382	8839	9250	9756	9701	9629	6866

Women

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

All domestic completions

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	66	66	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	1915



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

Г									
2010	1056	157	7566	91	6047	212	1381	59	16569
107	1035	151	6461	144	5964	218	1374	68	15415
2010	819	111	5347	115	5742	206	1319	72	13731
2012	868	120	4360	139	5143	184	1256	18	12088
	832	156	3679	108	4867	183	1115	0	10940
21.74	830	144	2966	201	4426	166	923	0	9656
	773	160	2243	156	4331	184	601	63	8511
	654	165	1962	206	4624	264	565	69	8509
2	600	164	2217	257	4628	144	590	53	8653
	579	144	2580	316	4385	181	415	45	8645
2024	413	131	2084	255	3679	129	274	50	7015
	336	144	2101	251	3523	159	345	34	6893
	272	135	1940	269	3184	47	48	63	5958
	222	137	2142	260	3109	40	64	41	6015
1004	213	173	2344	134	3283	23	17	34	6221
1000	207	133	2443	128	3564	14	12	46	6547
1001	186	117	1442	219	3206	29	29	6	5237
1007	190	97	1089	194	2818	15	٢	2	4406
LEVEI	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & advanced diplomas	Diplomas	Other undergraduate	Total

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	6	14	38	6	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 commencemenrs

1152 1132 1428 1491	163 161 204 188	5473 6764 8101 9364	177 153 178 120	6510 7094 7482 7447	198 236 244 247	1401 1517 1594 1576	23 77 79 71	15097 17134 19310 20504
7 1161	211	2 4517	129	7 5963	192	5 1235	0	3 13408
112	199	359	249	541	204	100	0	1179
1028	225	2758	181	5223	198	658	81	10352
206	232	2435	238	5589	273	618	92	10384
798	218	2770	318	5626	157	671	65	10623
804	208	3100	365	5311	191	475	60	10514
575	180	2552	309	4465	133	313	63	8590
431	198	2528	301	4289	162	431	53	8393
361	178	2295	322	3854	49	115	73	7247
272	177	2579	295	3778	41	108	51	7301
264	203	2787	162	3936	25	17	42	7436
257	158	2850	148	4280	15	12	63	7783
226	140	1745	257	3859	30	47	10	6314
237	121	1305	221	3374	16	1	5	5280
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & advanced diplomas	Diplomas	Other undergraduate	Total

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

Men

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

Women

	_	_	_		_		_		
1402	66	3825	38	5004	61	332	14	10835	
1298	114	3313	37	4766	53	330	13	9924	
1185	118	2626	44	4282	37	281	7	8580	
1144	125	1908	48	3880	30	218	5	7358	
1111	140	1411	47	3525	31	172	0	6437	
1038	145	1077	68	3325	53	122	0	5828	
971	151	929	37	3153	29	91	23	5387	
834	136	947	49	3123	18	104	26	5239	
682	136	1019	74	2963	19	120	14	5027	
568	126	934	65	2645	13	86	15	4452	
423	111	861	66	2449	7	110	14	4041	
310	112	690	59	2284	5	167	20	3647	
263	90	682	63	2125	2	112	12	3349	
210	81	803	45	2061	1	51	12	3264	
193	54	758	32	2025	3	31	10	3106	
157	49	660	33	1919	3	31	18	2870	
137	47	457	51	1682	2	18	1	2395	
134	38	379	43	1394	2	0	4	1994	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & advanced diplomas	Diplomas	Other undergraduate	Total	

Overseas students

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	6263 1	9649
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 2	3882 2	5111
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	9	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 4	8773 5	3825
Courses Date anouted but DET																		

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

Men

14		95	045	87	652	32	874	44	543
•	36 6	3	91 5	4	29 3	12	31 6	2	81 10
24	56	6	36	1	34	14	86	5	83
	581	93	3065	112	3070	122	903	34	7980
	481	71	2580	126	2809	113	679	0	6859
	527	87	2195	133	3187	85	634	0	6848
	423	83	1934	184	3250	127	367	0	6368
	340	80	1823	129	2842	133	329	63	5739
	294	86	2256	197	2701	56	353	82	6025
	255	65	2162	235	2375	85	263	0	5440
	181	64	1906	200	2115	87	204	15	4772
2222	152	76	1785	194	2036	67	239	11	4560
	207	75	1607	181	1836	24	188	8	4126
	173	104	1539	207	1904	10	42	28	4007
	154	59	1909	156	1958	21	21	13	4291
	127	59	1610	103	1794	12	21	10	3736
2004	86	35	1441	121	1618	12	13	41	3367
EUVE	84	36	870	128	1424	19	17	4	2582
1 2 2 2	78	45	718	93	1373	16	1	1	2325
	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & advanced diplomas	Diplomas	Other undergraduate	Total

Women

_	_		_	_	_	_	_	_
182	34	1428	24	1040	26	157	11	2902
214	28	1067	22	872	23	145	8	2379
174	35	799	25	748	5	121	7	1914
175	50	625	34	674	16	111	0	1685
169	28	517	31	794	12	77	0	1628
156	30	469	35	724	11	32	0	1457
117	32	436	16	624	10	31	6	1277
91	35	529	22	620	0	51	31	1380
63	32	498	44	537	6	32	0	1215
45	22	440	41	474	4	32	3	1061
32	25	403	47	548	4	77	5	1141
46	20	293	31	454	1	80	2	927
35	22	291	31	439	0	43	5	866
31	16	390	37	438	0	7	5	924
24	14	332	16	426	2	23	2	839
23	11	275	24	379	0	10	11	733
15	5	201	22	324	0	0	1	568
19	15	198	15	285	0	0	0	532
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & advanced diplomas	Diplomas	Other undergraduate	Total

All overseas completions

13445	11360	9894	8544	8476	7825	7016	7405	6655	5833	5701	5053	4873	5215	4575	4100	3150	2857	Total
55	63	41	0	0	0	72	113	0	18	16	10	33	18	12	52	5	1	Other undergraduate
1031	1036	1024	190	711	399	360	404	295	236	316	268	85	28	44	23	17	1	Diplomas
158	165	127	129	97	138	143	99	94	91	71	25	10	21	14	12	19	16	Assoc degrees & advanced diplomas
4692	4301	3818	3483	3981	3974	3466	3321	2912	2589	2584	2290	2343	2396	2220	1997	1748	1658	Bachelors
111	136	137	160	164	219	145	219	279	241	241	212	238	193	119	145	150	108	Other postgraduate
6473	4758	3864	3205	2712	2403	2259	2785	2660	2346	2188	1900	1830	2299	1942	1716	1071	916	Coursework masters
129	121	128	121	115	113	112	121	97	86	101	95	126	75	73	46	41	60	Research masters
796	780	755	656	969	579	457	385	318	226	184	253	208	185	151	109	66	67	Doctoral

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 Zool1 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2013 2014 2015 2016 2017 2018 Doctoral 534 614 615 687 550 486 519 498 586 678 671 601 662 673 718 701 712 589 Research masters 324 366 322 347 292 257 234 187 647 1167 118 701 713 713 167 Coursework masters 798 1007 1007 964 876 943 1058 1158 1134 1187 647 1167 1178 147 Bachelors 10786 1007 10092 9920 1028 11051 11295 1254 13154 1367 1367 1376 14736 1682 594 519 Bachelors 10786 1078<										
Level 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 712 Doctoral 534 614 615 687 550 486 519 498 586 678 621 601 662 673 718 701 712 Research masters 324 567 247 234 187 298 303 219 231 234 713 713 1931 Coursework masters 798 1007 1007 964 876 943 1031 1128 1149 1541 1562 673 234 1331 Coursework masters 798 1007 1007 991 970 1028 11051 1128 1449 1561 1167 1167 1136 1373 1331 Bachelors 264 251 1251 12551 1556 158	2018	589	128	1671	519	14238	1095	608	5	18855
Level 2001 2002 2003 2004 2005 2007 2008 2010 2011 2013 2014 2015 2016 2010 Doctoral 534 614 615 687 550 486 519 498 586 678 621 601 662 673 718 701 Research masters 324 366 322 347 292 257 234 187 298 303 219 231 234 563 213 2014 682 673 718 701 712 718 718 718 718 718 718 718 718 718 718 718 718 718 718 718 718 718 718 <	2017	712	176	1931	594	13736	1041	625	11	18826
Level 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 Doctoral 534 614 615 687 550 486 519 498 586 678 621 601 662 673 718 Research masters 324 366 322 347 292 257 234 187 298 533 219 231 234 263 73 718 Coursework masters 798 1007 1007 964 876 943 1541 1562 1690 1780 2043 2091 Other postgraduate 1100 998 1106 1017 1092 1039 953 1080 1564 1566 1780 1787 1567 1569 14896 Bachelors 266 71 452 1690 1780 1257 1556 1489 178 149 <td>2016</td> <td>701</td> <td>214</td> <td>2123</td> <td>682</td> <td>14390</td> <td>1089</td> <td>515</td> <td>188</td> <td>19902</td>	2016	701	214	2123	682	14390	1089	515	188	19902
Level 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 Doctoral 534 614 615 687 550 486 519 498 586 678 621 601 662 673 Research masters 798 1007 1007 964 876 943 1031 1128 1449 1562 1690 1780 2043 Coursework masters 798 1007 1007 964 876 943 1031 1128 1449 1562 1690 1780 2043 Other postgraduate 11070 998 1106 1077 1092 1039 953 1080 1156 1562 1690 1780 2043 Bachelors 201 1051 1129 11295 12052 1254 1316 1376 1871 1508 1376 1690 1780 176 178	2015	718	253	2091	844	14896	1178	438	0	20418
Level 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 Doctoral 534 614 615 687 550 486 519 498 586 678 621 601 662 Research masters 324 366 322 347 292 257 234 187 298 519 498 586 678 621 601 662 Coursework masters 798 1007 1007 964 876 943 1031 1128 1449 1562 1690 1780 Other postgraduate 1100 998 1106 1077 1092 1039 953 1080 1156 1562 1690 1780 Bachelors 10786 1007 964 876 943 1052 1254 1355 14817 Bachelors 264 270 230 1205 1254 8	2014	673	258	2043	1118	15085	1370	521	388	21456
Level 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 Doctoral 534 614 615 687 550 486 519 498 586 678 621 601 Research masters 324 366 322 347 292 257 234 187 298 303 219 231 Coursework masters 798 1007 1007 964 876 943 1031 1128 1449 1541 1562 1690 Other postgraduate 1100 998 1106 1017 1092 1039 953 1080 1134 1187 647 Bachelors 10786 10089 910 9920 10288 11051 11295 15541 13154 13595 Ss degrees & advanced diplomas 226 71 45 46 47 170 1842 393 284 299	2013	662	234	1780	1167	14817	1890	400	483	21433
Level 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 Doctoral 534 614 615 687 550 486 519 498 586 678 621 Research masters 324 366 322 347 292 257 234 187 298 303 219 Coursework masters 798 1007 1007 964 876 943 1031 1128 1449 1541 1562 Other postgraduate 1100 998 1106 1017 1092 1039 953 1080 1541 1562 States & advanced diplomas 226 271 45 45 46 47 1729 1357 1357 States & advanced diplomas 26 71 45 46 47 170 184 233 284 299 Other undergraduate 233 533 430	2012	601	231	1690	647	13595	1536	358	1052	19710
Level 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 Doctoral 534 614 615 687 550 486 519 498 586 678 Research masters 324 366 322 347 292 257 234 187 298 303 Coursework masters 798 1007 1007 964 876 943 1128 1449 1541 Other postgraduate 1100 998 1106 1017 1092 1039 953 1080 1541 134 Bachelors 10786 10278 10089 9910 9920 1028 11051 1128 1449 1541 Ss degrees & advanced diplomas 226 264 250 240 373 391 524 842 930 1357 Diplomas 237 533 430 170 146 47 170 18	2011	621	219	1562	1187	13154	1257	299	514	18813
Level 2001 2002 2003 2004 2005 2006 2007 2008 2009 Doctoral 534 614 615 687 550 486 519 498 586 Research masters 324 366 322 347 292 257 234 187 298 Coursework masters 798 1007 1007 964 876 943 1031 1128 1449 Coursework masters 798 1007 1007 964 876 943 1031 1128 1449 Other postgraduate 1100 998 1007 1007 964 876 943 1030 1158 1449 Sa degrees & advanced diplomas 226 264 250 240 373 391 524 842 930 Diplomas 26 71 45 45 46 47 170 184 233 Diplomas 237 573 <td>2010</td> <td>678</td> <td>303</td> <td>1541</td> <td>1134</td> <td>12541</td> <td>1357</td> <td>284</td> <td>514</td> <td>18352</td>	2010	678	303	1541	1134	12541	1357	284	514	18352
Level 2001 2002 2003 2004 2005 2006 2007 2008 Doctoral 534 614 615 687 550 486 519 498 Research masters 324 366 322 347 292 257 234 187 Coursework masters 798 1007 1007 964 876 943 1031 1128 Other postgraduate 1100 998 1106 1017 1092 1039 953 1080 Bachelors 10708 10079 9910 9920 10288 11295 Ss degrees & advanced diplomas 226 264 250 240 373 391 524 842 Diplomas 226 71 45 45 46 47 170 184 Other undergraduate 237 539 533 430 480 518 406 47 170 184 Other undergraduate	2009	586	298	1449	1158	12052	930	233	288	16994
Level 2001 2002 2003 2004 2005 2006 2007 Doctoral 534 614 615 687 550 486 519 Research masters 324 366 322 347 292 257 234 Coursework masters 324 366 322 347 292 257 234 Coursework masters 798 1007 1007 964 876 943 1031 Other postgraduate 1100 998 1106 1017 1092 1039 953 Bachelors 10786 10278 10089 9910 9920 1039 953 Ss degrees & advanced diplomas 226 264 250 240 373 391 524 Diplomas 226 71 45 45 46 47 170 Other undergraduate 237 539 523 430 480 518 Diplomas 26	2008	498	187	1128	1080	11295	842	184	226	15440
Level 2001 2002 2003 2004 2005 2006 <t< td=""><td>2007</td><td>519</td><td>234</td><td>1031</td><td>953</td><td>11051</td><td>524</td><td>170</td><td>518</td><td>15000</td></t<>	2007	519	234	1031	953	11051	524	170	518	15000
Level 2001 2002 2003 2004 2005 Doctoral 534 614 615 687 550 Research masters 324 366 322 347 292 Coursework masters 798 1007 1007 964 876 Other postgraduate 1100 998 1106 1017 1092 Bachelors 10786 10278 9910 9920 Ss degrees & advanced diplomas 226 264 273 373 Diplomas 226 71 45 46 373 Other undergraduate 237 573 599 523 430 Other undergraduate 237 573 599 523 430	2006	486	257	943	1039	10288	391	47	480	13931
Level 2001 2002 2003 2004 Doctoral 534 614 615 687 Research masters 324 366 322 347 Coursework masters 324 366 322 347 Coursework masters 798 1007 1007 964 Other postgraduate 1100 998 1106 1017 Bachelors 10786 10278 10089 9910 Ss degrees & advanced diplomas 226 264 250 240 Diplomas 26 71 45 45 45 Other undergraduate 237 573 599 523 Other undergraduate 237 573 599 523	2005	550	292	876	1092	9920	373	46	430	13579
Level 2001 2002 2003 Doctoral 534 614 615 Research masters 534 614 615 Research masters 324 366 322 Coursework masters 798 1007 1007 Other postgraduate 1100 998 1106 Bachelors 10786 10278 10089 Ss degrees & advanced diplomas 226 264 250 Diplomas 26 71 45 Other undergraduate 237 573 599 Other undergraduate 237 573 599	2004	687	347	964	1017	9910	240	45	523	13742
Level 2001 2002 Doctoral 534 614 Research masters 324 366 Coursework masters 798 1007 Other postgraduate 1100 998 Bachelors 10786 10278 Ss degrees & advanced diplomas 226 264 Diplomas 266 71 Other undergraduate 237 573 Other undergraduate 237 573	2003	615	322	1007	1106	10089	250	45	599	14033
Level2001Doctoral534Doctoral534Research masters324Coursework masters798Coursework masters798Other postgraduate1100Bachelors10786Ss degrees & advanced diplomas226Diplomas26Other undergraduate237Other undergraduate237	2002	614	366	1007	998	10278	264	71	573	14171
Level Doctoral Research masters Coursework masters Coursework masters Coursework masters Coursework masters Cother postgraduate Diplomas Other undergraduate Total	2001	534	324	798	1100	10786	226	26	237	14031
	Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & advanced diplomas	Diplomas	Other undergraduate	Total

Overseas students

91	œ	54	0	47	7	26	_	04
14	18	93(12	74	24	15	-2	0 205
1428	204	8101	178	7482	244	1594	79	19310
1132	161	6764	153	7094	236	1517	77	17134
1152	163	5473	177	6510	198	1401	23	15097
1161	211	4517	129	5963	192	1235	0	13408
1127	199	3592	249	5417	204	1005	0	11793
1028	225	2758	181	5223	198	658	81	10352
907	232	2435	327	5589	275	618	<5	10386
798	218	2770	318	5626	157	671	65	10623
804	208	3100	365	5311	191	475	60	10514
575	180	2552	309	4465	133	313	63	8590
431	198	2528	301	4289	162	431	53	8393
361	178	2295	322	3854	49	115	73	7247
272	177	2579	295	3778	41	108	51	7301
264	203	2787	162	3936	25	17	42	7436
257	158	2850	148	4280	15	12	63	7783
226	140	1745	257	3859	30	47	10	6314
237	121	1305	221	3374	16	1	5	5280
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & advanced diplomas	Diplomas	Other undergraduate	Total

All commencing students

i commencing subarius																		
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	1035
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 2	21685
s 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 3	39359

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

Domestic

3664		493	5014	1059	2254	2715	876	6	6084
3877		590	5342	1175	1885	2719	858	12	6458
	3788	660	5358	1328	2722 5	2937	744	175	7712 6
	3617 3	712	5159 5	1698	52755 5	3240 2	679	168	68028 6
	3372	684	4822	2051	52135	3401	731	475	67671
21.22	3389	662	4434	2177	50547	3752	599	576	66136
	3304	689	4061	1224	48083	3311	507	1578	62757
	3183	704	3856	1118	46389	2980	871	1358	60251
	2982	769	3630	2153	44656	2740	417	554	57901
	2866	697	3164	2085	42726	2095	325	346	54304
	2852	622	2764	2122	40693	1681	228	281	51243
	2917	732	2536	2008	39058	1202	209	562	49224
	2935	797	2313	2122	37622	880	77	552	47298
	2999	857	2268	2072	37111	704	70	486	46567
	3001	934	2295	2006	37821	653	57	560	47327
2002	2838	914	2250	2016	38444	638	71	639	47810
2002	2620	968	2056	1840	38711	672	91	641	47599
	2551	937	1773	1836	38830	663	46	281	46917
Lave	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & advanced diplomas	Diplomas	Other undergraduate	Total

Overseas

_	_	_	_	_	_	_	_	_	
5307	440	19649	162	25111	503	2568	85	53825	
4841	427	16263	215	23882	514	2528	103	48773	
4550	410	13023	205	22152	463	2457	88	43348	
4418	470	10078	226	20383	416	2170	23	38184	
4296	507	7953	235	19425	415	1871	0	34703	
4038	486	6132	348	18795	447	1431	0	31680	
3655	505	5017	320	18124	500	1053	95	29205	
3076	487	5143	335	17851	426	1101	108	28526	
2585	476	5636	463	16862	310	1047	68	27447	
2188	423	5466	471	15116	324	738	61	24787	
1707	420	4926	412	13863	240	637	68	22273	
1423	446	4433	391	12791	185	693	56	20418	
1264	428	4344	422	12056	75	206	84	18879	
1111	401	4912	380	11744	56	133	60	18797	
984	360	4809	240	11638	46	71	52	18200	
861	281	4334	252	10964	34	63	71	16860	
754	260	2650	383	9497	45	54	13	13656	
694	235	2026	321	8067	31	1	9	11381	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & advanced diplomas	Diplomas	Other undergraduate	Total	

All students

119909	115231	111060	106212	102374	97816	91962	88777	85348	79091	73516	69642	66177	65364	65527	64670	61255	58298	Total
 94	115	263	191	475	576	1673	580	622	407	349	618	636	546	612	710	654	287	Other undergraduate
3444	3386	3201	2849	2602	2030	1560	1540	1464	1063	865	902	283	203	128	134	145	47	Diplomas
3218	3233	3400	3656	3816	4199	3811	3408	3050	2419	1921	1387	955	760	669	672	717	694	Assoc degrees & advanced diplomas
 77365	75767	74874	73138	71560	69342	66207	64240	61518	57842	54556	51849	49678	48855	49459	49408	48208	46897	Bachelors
1221	1390	1533	1924	2286	2525	1544	2560	2616	2556	2534	2399	2544	2452	2246	2268	2223	2157	Other postgraduate
24663	21605	18381	15237	12775	10566	9078	6668	9266	8630	7690	6969	6657	7180	7104	6584	4706	3799	Coursework masters
 933	1017	1070	1182	1191	1148	1194	1191	1245	1120	1042	1178	1225	1258	1294	1195	1228	1172	Research masters
 8971	8718	8338	8035	7668	7427	6959	6259	5567	5054	4559	4340	4199	4110	3985	3699	3374	3245	Doctoral

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

Domestic

_	_	_	_	_	_	_	_	_	_
2018	641	93	1601	466	8295	541	278	0	11915
2017	637	105	1590	545	7742	493	291	0	11403
2016	603	116	1567	643	7743	518	285	26	11501
2015	603	108	1543	848	7634	570	239	0	11545
2014	572	103	1426	794	7392	523	264	0	11074
2013	536	132	1355	763	7044	479	152	0	10461
2012	495	100	1145	304	6795	518	141	398	9896
2011	400	98	1045	358	6660	327	130	406	9424
2010	474	99	1024	672	6237	320	109	0	8935
2009	482	99	788	597	6063	278	60	0	8367
2008	513	127	690	522	6077	175	60	0	8164
2007	521	135	686	447	5786	133	73	160	7941
2006	488	139	576	427	6026	83	35	221	8001
2005	453	133	635	363	5680	94	47	173	7578
2004	423	150	645	409	5980	101	23	444	8175
2003	422	148	663	411	5831	104	52	212	7843
2002	382	147	624	334	5721	122	54	292	7686
2001	324	147	636	409	6061	140	27	112	7856
Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & advanced diplomas	Diplomas	Other undergraduate	Total

Overseas

129 127 165 158	160 137 136 111 483 3818 4301 4692 129 127 165 158	205 3864 4758 6473 160 137 136 111 483 3818 4301 4692 129 127 165 158	121 128 121 129 205 3864 4758 6473 60 137 136 111 483 3818 4301 4692 129 127 165 158
	164 3981 3	2712 3 164 3 3981 3	115 2712 3 164 3 3981 3
	219 3974	2403 219 3974	113 2403 219 3974
	145 3466	2259 145 3466	112 2259 145 3466
	219 3321	2785 219 3321	121 2785 219 3321
	279 2912	2660 279 2912	97 2660 279 2912
	241 2589	2346 241 2589	86 2346 241 2589
	241 2584	2188 241 2584	101 2188 241 2584
2230	212	1900 212 2200	95 1900 212
2423	238	1830 238 2343	126 1830 238 2343
2021	193 2396	2299 193 2396	75 2299 193 2396
	119 2220	1942 119 2220	73 1942 119 2220
100	145	1716 145 1007	46 1716 145
	150 1748	1071 150 1748	41 1071 150 1748
	108 1658	916 108 1658	60 916 108 1658
	ther postgraduate Bachelors	oursework masters Other postgraduate Bachelors	Research masters Coursework masters Other postgraduate Bachelors

All student completions

	25360	22763	21395	20089	19550	18286	16912	16829	15590	14200	13865	12994	12874	12793	12750	11943	10836	10713	Total
_	55	63	67	0	0	0	470	519	0	18	16	170	254	191	456	264	297	113	Other undergraduate
_	1309	1327	1309	1029	975	551	501	534	404	296	376	341	120	75	67	75	71	28	Diplomas
_	669	658	645	669	620	617	661	383	414	369	246	158	93	115	115	116	141	156	Assoc degrees & advanced diplomas
_	12987	12043	11561	11117	11373	11018	10261	9981	9149	8652	8661	8076	8369	8076	8200	7828	7469	7719	Bachelors
_	577	681	780	1008	958	982	449	577	951	838	763	629	665	556	528	556	484	517	Other postgraduate
_	8074	6348	5431	4748	4138	3758	3404	3830	3684	3134	2878	2586	2406	2934	2587	2379	1695	1552	Coursework masters
_	222	226	244	229	218	245	212	219	196	185	228	230	265	208	223	194	188	207	Research masters
_	1437	1417	1358	1259	1268	1115	952	785	792	708	697	774	696	638	574	531	481	421	Doctoral

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

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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	6	8	10	12	30	8
0301	Manufacturing Engineering & Technology	18	14	3	3	5	4	5	0	< 5	< 5	< 5	<5	9	<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	6	< 5	6	<5	<5	<5	0	<5	6
0307	Mechanical & Industrial Engineering & Technology	34	49	30	21	22	35	6	13	< 5	9	9	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	Martime Engineering & Technology	2	3	4	2	9	0	2	1	< 5	< 5	< 5	<5	<5	25	26	6	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

\$	<5	8	0	<5	0	0	<5	47	<5	24	90	
55	<5	9	0	0	0	<5	<5	47	<5	19	85	
<5	<5	6	0	0	0	<5	<5	39	<5	24	82	
\$	81	10	0	0	0	<5	<5	41	0	19	155	
\$5	56	<5	0	0	0	5	5	28	<5	14	112	
0	29	11	0	0	0	<5	8	31	0	15	66	
< 5	43	7	0	0	0	6	13	32	0	11	117	
5	44	7	0	0	0	5	21	25	0	10	117	
< 5	29	10	< 5	0	0	11	29	25	0	7	116	
1	23	20	0	1	<10	12	24	39	0	6	130	
7	8	12	0	1	0	6	34	31	0	5	109	
3	10	31	0	2	12	14	41	29	0	14	156	
15	13	<10	0	2	4	12	52	28	1	7	139	
7	4	10	0	1	0	17	18	23	0	8	88	
12	5	14	0	2	4	16	6	19	0	10	88	
4	3	20	0	3	2	24	6	22	1	13	101	
18	2	18	0	3	0	10	12	14	1	20	98	
Engineering & Related Technologies	Manufacturing Engineering & Technology	Process & Resource Engineering	Automotive Engineering & Technology	Mechanical & Industrial Engineering & Technology	Civil Engineering	Geomatic Engineering	Electrical & Electronic Engineering & Technology	Aerospace Engineering & Technology	Maritime Engineering & Technology	Other Engineering & Technology	Total	
0300	0301	0303	0305	0307	0309	0311	0313	0315	0317	0399	03	
_	_	_	_	_	_	_	_	_	_	_	_	

All domestic graduations

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0300	Engineering & Related Technologies	84	63	76	69	78	62	52	55	46	25	18	6	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	9	<5	<5	<5	0	0	6
0307	Mechanical & Industrial Engineering & Technology	37	52	32	22	24	37	10	14	< 5	9	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	6	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
Control	Determined by DET																	

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

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2017	706	49	301	24	604	930	<5	531	159	57	944	4436
2016	731	27	301	16	622	1079	<5	446	134	92	1023	4598
2015	761	25	330	8	624	926	9	516	177	50	984	4437
2014	758	28	333	16	554	873	80	468	185	20	964	4279
2013	682	12	367	20	631	849	71	476	176	36	866	4186
2012	638	<5	355	21	596	803	88	490	187	19	861	4061
2011	545	< 5	401	19	599	845	79	456	176	24	801	3945
2010	321	< 5	441	28	567	746	90	535	172	10	715	3626
2009	356	8	413	28	560	712	106	621	158	14	677	3653
2008	273	12	378	22	610	706	121	703	190	16	617	3648
2007	286	21	346	22	574	573	128	811	165	13	478	3417
2006	246	17	271	20	527	448	120	796	130	23	581	3179
2005	215	19	281	19	475	488	113	1062	169	11	458	3310
2004	59	23	319	3	553	502	117	1111	151	23	441	3302
2003	90	16	285	0	528	554	94	1136	117	2	450	3272
2002	134	10	332	0	556	574	113	992	118	12	472	3313
2001	98	13	410	0	503	585	118	1007	124	11	540	3409
Specialisation	Engineering & Related Technologies	Manufacturing Engineering & Technology	Process & Resource Engineering	Automotive Engineering & Technology	Mechanical & Industrial Engineering & Technology	Civil Engineering	Geomatic Engineering	Electrical & Electronic Engineering & Technology	Aerospace Engineering & Technology	Martime Engineering & Technology	Other Engineering & Technology	Total
ASCED	0300	0301	0303	0305	0307	0309	0311	0313	0315	0317	0399	03

Women

110	<5	103	<5	54	144	<5	63	18	<5	192	969	
60	<5	97	0	46	199	<5	56	22	5	179	705	
96	<5	87	<5	49	161	8	42	20	5	170	641	
134	<5	105	0	47	145	5	43	20	5	152	659	
127	<5	110	0	46	114	5	44	19	<5	160	627	
133	0	104	<5	47	122	<5	44	21	0	150	624	
17	0	123	< 5	50	134	10	44	29	0	129	595	
54	< 5	120	< 5	48	94	12	49	21	< 5	140	542	
44		116	< 5	55	120	18	48	15		135	552	
36	0	110	0	51	102	22	53	24	2	123	523	
41	5	106	<10	43	88	13	79	18	0	112	506	
34	3	98	2	32	81	23	101	16	1	137	528	
46	2	66	0	44	89	18	150	30	0	126	604	
11	2	126	0	58	98	29	180	20	1	111	636	
23	5	128	0	66	90	15	181	23	0	132	663	
26	3	137	0	57	122	20	143	24	0	124	656	
9	5	135	0	56	140	22	140	19	0	169	691	
Engineering & Related Technologies	Manufacturing Engineering & Technology	Process & Resource Engineering	Automotive Engineering & Technology	Mechanical & Industrial Engineering & Technology	Civil Engineering	Geomatic Engineering	Electrical & Electronic Engineering & Technology	Aerospace Engineering & Technology	Maritime Engineering & Technology	Other Engineering & Technology	Total	
0300	0301	0303	0305	0307	0309	0311	0313	0315	0317	0399	03	
_												

All domestic graduations

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

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

2001 2002 2003 2004 2005 2006 2007 2008 2009 2011 2012 2013 2014 2015 2016 2016 2016 2017 2013 2014 2015 2016 <t< th=""></t<>
136 162 261 320 481 372 375 400 406 502 495 488 561 594 649 563 649 27 28 28 40 2 - 13 11 22 52 32 26 15 17 9 11 8 63 129 120 151 83 132 124 128 130 146 143 149 102 108 128 157 0 0 0 0 0 132 124 128 130 146 143 143 102 108 157 156 157 135 75 126 177 134 131 134 111 134 120 156 157 156 157 156 157 156 157 156 157 156 157 156 157 156 157 156 157
27 28 28 40 2 - 13 11 22 52 32 26 15 17 9 11 8 63 129 120 151 83 132 124 128 130 130 146 143 149 102 108 128 172 0 0 0 0 0 0 0 0 <
63 129 120 151 83 132 124 128 130 130 146 143 149 102 108 128 172 0 0 0 0 0 0 0 0 0 0 $< < > < > < < < < < < < < < < < < < < $
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207 126 125 115 64 76 89 82 100 146 131 92 88 117 132 126 157 135 75 126 102 86 66 74 87 86 142 171 134 211 184 202 230 206 22 <10
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
22 <10 <10 <12 <10 6 <10 5 <5 9 15 10 9 8 0
388 252 271 337 320 325 298 182 132 146 114 88 114 123 122 152 152 175 26 14 2 30 36 61 37 49 48 59 36 63 59 75 52 56 52 0 0 0 0 0 0 0 0 <<5
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
0 0 0 0 0 0 0 0 11 12 11 12 11 12 12 16 12 16 12 16 12 16 12 16 12 199 199 195 200 184 310 282 324 326 359 380 1100 900 1051 1215 1192 1105 1082 1089 1348 1324 1562 1529 1432 1432
141 146 140 172 161 221 199 199 195 200 184 310 282 324 326 359 380 1100 900 1051 1215 1192 1165 1082 1069 1348 1324 1362 1519 1526 1292 1432
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 1	24
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	9	< 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	9	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 1	14
03	Total	238	211	233	251	275	280	274	247	234	258	297	311	311	349	393	269 3	120

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	6	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	66	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	9	0	5	< 5	15	22	11	10	6	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	1666	1830	1911	2022	1561	1752
Control	· Data supplied by DET																	

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

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ASCED	Specialisation	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 2	2016 2	017
0300	Engineering & Related Technologies	300	355	415	441	759	677	706	732	804	843	1056	1135	1251	1362	1422 1	324 1	363
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	260	781
0309	Civil Engineering	734	662	687	623	597	553	660	828	810	893	1016	937	1060	1057	1158 1	309 1	136
0311	Geomatic Engineering	182	178	169	177	136	142	145	139	132	115	125	122	102	120	9	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	Martime Engineering & Technology	13	15	9	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	666	1100	1313	1267	1430	1464 1	517 1	452
03	Total	5040	4753	4847	5005	5066	5062	5072	5329	5161	5320	5646	5835	6105	6331	6481 6	3555 (323
				Í				Í										

Women

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	6	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	٢	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

	lesuc grauuauoris														Ì	ľ		
0300	Engineering & Related Technologies	357	413	501	508	937	793	827	843	926	990	1214	1338	1472	1587	1672	1513	•
0301	Manufacturing Engineering & Technology	67	62	60	76	41	34	53	46	64	103	82	60	91	131	34	38	
0303	Process & Resource Engineering	693	700	607	679	515	650	676	724	725	749	766	670	669	615	621	600	-
0305	Automotive Engineering & Technology	0	0	0	3	19	22	22	23	39	30	26	22	20	16	8	16	
0307	Mechanical & Industrial Engineering & Technology	840	812	770	770	620	687	735	787	741	791	815	755	776	743	831	836	∞
0309	Civil Engineering	904	809	811	743	717	668	776	952	953	1023	1192	1101	1222	1246	1369	1557	÷
0311	Geomatic Engineering	214	222	200	223	166	179	167	173	161	138	151	131	113	128	14	0	-
0313	Electrical & Electronic Engineering & Technology	1727	1545	1752	1817	1788	1506	1376	1130	928	826	675	678	674	666	705	689	8
0315	Aerospace Engineering & Technology	262	280	272	333	410	386	391	492	389	412	422	501	488	575	473	491	4
0317	Maritime Engineering & Technology	14	16	9	26	18	24	15	19	14	11	24	19	68	68	110	122	ര
0399	Other Engineering & Technology	1041	902	894	887	898	1123	971	1130	1175	1202	1348	1581	1522	1712	1741	1835	7
03	Total	6067	5721	5831	5980	6084	6026	5961	6252	6063	6237	6655	6869	7155	7493	7597	7414	74
00000																		

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

	17	80			_		5		9	Σ	ŝ	11	57
	6 20	۳ ۳					2 2	_	2	2	•	3	8 4
	201	60	•	≤2	•	8	44	0	7	6	\$	358	488
	2015	65	ŝ	<5	0	36	102	0	25	15	<5	265	515
	2014	61	\$	5	0	61	152	<5	28	19	<5	117	445
	2013	33	0	<5	0	64	149	0	40	34	<5	115	437
	2012	65	0	<5	0	57	83	0	14	17	48	189	475
	2011	55	0	< 5	0	< 5	24	0	10	18	46	142	300
	2010	35	0	< 5	0	16	11	< 5	16	5	33	166	285
	2009	24	0	< 5	0	14	< 5	0	7	27	32	148	254
	2008	20	0	0	0	<10	<10	<10	11	0	24	82	155
	2007	11	0	0	0	<10	<10	<10	11	0	28	51	121
	2006	<10	0	0	0	<10	<10	<10	10	0	31	22	83
	2005	14	0	0	0	<10	12	<10	13	0	32	<10	87
	2004	13	0	13	0	<10	<10	<10	15	0	26	<10	92
	2003	<10	<10	0	0	10	13	15	14	<10	22	<10	06
	2002	11	<10	0	0	21	15	<10	24	<10	16	11	122
	2001	13	<10	0	0	14	18	14	21	24	<10	22	135
	Specialisation	Engineering & Related Technologies	Manufacturing Engineering & Technology	Process & Resource Engineering	Automotive Engineering & Technology	Mechanical & Industrial Engineering & Technology	Civil Engineering	Geomatic Engineering	Electrical & Electronic Engineering & Technology	Aerospace Engineering & Technology	Martime Engineering & Technology	Other Engineering & Technology	Total
Men	ASCED	0300	0301	0303	0305	0307	0309	0311	0313	0315	0317	0399	

Women

6	0	0	0	0	<5	0	<5	<5	0	23	36	
8	0	0	0	<5	8	0	<5	0	0	31	55	
\$5	0	0	0	<5	13	0	<5	<5	0	28	50	
9	0	<5	0	<5	15	0	<5	9	0	25	58	
<5	0	<5	0	0	14	0	<5	<5	0	17	35	
5	0	0	0	<5	11	0	<5	0	<5	20	40	
< 5	0	0	0	0	< 5	0	0	0	< 5	22	27	
< 5	0	0	0	0	0	0	< 5	< 5	< 5	27	35	
0	0	< 5	0	< 5	< 5	0	0	< 5	< 5	16	24	
<10	0	0	0	0	0	0	0	0	<10	16	20	
<10	0	0	0	0	0	<10	0	<10	<10	<10	12	
0	0	0	0	0	<10	0	0	0	<10	<10	<10	
0	0	0	0	0	<10	0	<10	0	<10	<10	<10	
<10	0	0	0	<10	<10	<10	<10	0	0	0	<10	
0	<10	0	0	0	<10	<10	<10	0	<10	<10	14	
0	0	0	0	<10	<10	<10	<10	<10	<10	<10	<10	
0	0	0	0	0	<10	<10	0	<10	<10	0	<10	
Engineering & Related Technologies	Manufacturing Engineering & Technology	Process & Resource Engineering	Automotive Engineering & Technology	Mechanical & Industrial Engineering & Technology	Civil Engineering	Geomatic Engineering	Electrical & Electronic Engineering & Technology	Aerospace Engineering & Technology	Maritime Engineering & Technology	Other Engineering & Technology	Total	
0300	0301	0303	0305	0307	0309	0311	0313	0315	0317	0399		

All domestic graduations

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

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.

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

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

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

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

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209 155		52 32	435 423	166 118	3900 4009	106 116	171 181	0 0	5039 5034
2010	192	43	499	193	4166	77	165	0	5335
2012	154	59	481	250	4269	107	128	0	5448
41 N7	174	77	537	356	3830	33	129	0	5136
2013	165	64	545	417	3917	<5	104	0	5216
2012	147	71	548	347	3620	57	117	14	4921
2011	163	57	548	366	3352	54	64	15	4619
2010	180	70	590	365	3075	62	53	21	4416
2003	159	78	562	374	3084	43	48	0	4348
2000	146	146	399	347	2856	0	46	0	3940
1002	139	53	339	288	2618	0	38	0	3475
2002	130	70	326	270	2453	0	0	0	3249
CUU2	147	83	324	347	2412	0	0	0	3313
2004	177	101	338	282	2386	0	0	0	3284
2003	150	82	420	332	2438	0	0	0	3422
2002	152	78	439	310	2438	4	0	0	3421
2001	132	70	361	328	2518	9	0	0	3415
Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total

Women

																		l
128	1156	1109	1167	1029	1004	873	848	878	813	754	662	603	552	616	605		693	693 693
0	0	0	0	0	0	<5	3	2	0	0	0	0	0	0	0		0	0 0
18	12	20	6	17	9	8	3	6	10	6	10	0	0	0	0		•	0 0
13	5	5	15	2	0	5	3	1	4	0	0	0	0	0	0		1	1 1
1050	919	874	886	742	694	606	562	562	519	473	422	360	327	398	372		444	479 444
37	49	49	68	73	101	80	100	94	96	102	85	98	66	73	91		77	83 77
98	88	94	113	114	135	93	117	122	111	98	87	93	68	82	82		95	85 95
13	17	22	11	16	17	23	16	18	19	36	20	15	25	21	15		20	9 20
59	66	45	65	65	48	54	44	0/	54	36	38	37	33	42	45	_	56	36 56

All domestic students

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

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

			I	
			I	
	2	5	I	
1	ŝ	i	I	

	104 400	71 82	613 2847	108 53	861 1826	68 54	280 299	0 0	405 5561
20102	276	41	2178 2	20	1662 1	49	256	0	4532 5
CL07	280	53	1716	82	1379	28	324	0	3862
2014	282	71	1295	36	1212	28	258	0	3182
2013	272	53	1072	48	1190	15	250	0	2900
21.02	253	72	799	64	1122	17	161	0	2488
1102	258	76	851	62	1176	20	180	0	2623
2010	217	68	931	57	1132	18	158	0	2581
2009	186	45	920	53	1018	5	129	0	2356
2008	149	43	689	42	827	0	81	0	1831
2002	115	51	590	32	835	0	77	0	1700
2006	107	45	486	54	830	0	0	0	1522
2002	77	46	581	54	762	0	0	0	1520
2004	73	59	674	46	920	0	0	0	1772
2003	74	44	739	49	1077	0	0	42	2025
2002	66	33	573	68	1068	+	0	0	1809
2001	77	32	471	44	798	0	0	0	1422
Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total

Women

2	7 850	18	3 502	8	41	0	8 1590
28	757	24	498	7	36	0	149
19	682	16	506	7	19	0	1360
16	534	23	431	1	26	0	1104
26	326	12	340	0	20	0	848
23	240	16	277	< 5	15	0	670
29	220	10	277	<5	10	0	622
29	228	18	289	1	14	0	669
28	240	17	262	6	22	0	638
24	198	13	221	0	15	0	542
14	173	6	153	0	12	0	401
20	127	6	162	0	0	0	338
15	99	14	173	0	0	0	330
12	125	8	144	0	0	0	303
8	164	7	187	0	0	0	390
10	154	12	189	0	0	16	394
6	125	11	224	0	0	0	382
6	107	10	154	0	0	0	299
Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total

All overseas students

556	97	3697	71	2328	62	340	0	7151
552	66	3370	132	2359	75	316	0	6903
387	60	2860	86	2168	56	275	0	5892
353	69	2250	105	1810	29	350	0	4966
406	97	1621	48	1552	28	278	0	4030
369	76	1312	64	1467	15	265	0	3568
327	101	1019	74	1399	17	171	0	3108
348	105	1079	80	1465	21	194	0	3292
280	96	1171	74	1394	24	180	0	3219
257	69	1118	99	1239	5	144	0	2898
189	22	862	51	980	0	93	0	2232
135	11	717	41	997	0	77	0	2038
136	09	585	68	1003	0	0	0	1852
91	58	706	62	906	0	0	0	1823
97	67	838	53	1107	0	0	0	2162
87	54	893	61	1266	0	0	58	2419
79	42	698	79	1292	1	0	0	2191
96	41	578	54	952	0	0	0	1721
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total

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

Men

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

Women

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

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	6	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
Courses Date scenided by DET																		

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

Men

2018	205	41	2108	37	890	27	187	0	3495
2017	188	38	1492	72	755	32	225	0	2802
2016	183	37	1079	60	772	13	273	0	2367
2015	147	26	883	44	686	8	185	0	1979
2014	190	41	790	25	767	< 5	199	0	2013
2013	148	36	740	29	706	5	118	0	1782
2012	123	41	725	30	608	5	129	0	1661
2011	117	40	882	41	580	10	134	0	1804
2010	83	27	814	24	558	< 5	98	0	1605
2009	57	25	663	24	427	0	27	0	1223
2008	41	25	470	26	535	0	13	0	1110
2007	76	33	481	32	457	0	15	0	1094
2006	62	45	495	36	496	0	0	0	1151
2005	60	22	568	44	570	0	0	0	1264
2004	45	19	569	21	559	0	0	0	1213
2003	29	8	610	20	537	0	0	40	1244
2002	39	15	415	20	445	1	0	0	935
2001	33	17	311	12	445	1	0	0	819
Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total

Women

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

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	066	887	991	1001	1201
Assoc degrees & Adv diplomas	1	1	0	0	0	0	0	0	0	9	10	7	5	< 5	6	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
Courses Date and Lad her DET																		

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

Men

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	108	126	121	113	114	84	96	82	102	112	130	115	129	114	151	125	139	66
Research masters	117	123	84	66	71	91	74	83	88	82	48	38	55	44	37	27	21	26
Coursework masters	196	301	308	269	243	237	226	245	302	327	395	533	580	618	571	602	611	482
Other postgraduate	299	278	251	226	209	195	202	270	230	211	137	208	189	180	81	73	69	76
Bachelors	2897	2622	2534	2490	2454	2444	2625	2325	2424	2473	2548	2733	2869	2878	2888	2796	2608	2763
Ass degrees & Adv diplomas	11	25	19	4	<10	<10	0	72	110	143	251	326	488	345	335	369	332	391
Diplomas	0	0	0	0	<10	<10	11	11	13	19	20	22	45	101	113	121	175	141
Other undergraduate	31	26	10	1	53	75	62	57	71	118	178	179	78	84	65	62	8	3
Total	3659	3501	3327	3202	3144	3126	3296	3145	3340	3485	3707	4154	4433	4364	4241	4175	3963	3981

Women

6 7 41 155	41 155		17 15	61 569	34 38	22 10	3 2	34 839	
14		142 1	13	457 4	27	17	76	793 7	
	16	125 ′	17	413 4	33	3	58	712 7	
	20	144	26	507	26	< 5	71	841	
	17	114	39	563	50	< 5	103	936	
	15	102	33	421	13	0	147	776	
	18	94	29	424	12	3	158	785	
	17	72	42	411	6	0	137	729	
	20	72	43	413	<10	<10	82	665	
	28	63	51	395	8	0	11	644	
	26	52	25	498	0	0	72	700	
	24	51	37	456	0	٢	74	678	
	21	47	34	442	٦	0	40	621	
	34	63	37	402	0	0	0	579	
	37	69	29	538	0	0	2	704	
	34	45	49	530	2	0	9	697	
	24	49	62	598	0	0	4	776	
	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All domestic students

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

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

Men

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	42	39	46	54	62	70	71	109	178	177	162	235	299	238	313	264	357	355
Research masters	40	56	57	66	53	63	57	99	67	47	59	61	49	54	34	35	47	44
Coursework masters	318	571	1221	897	662	674	766	707	868	605	490	732	1061	1281	1436	1758	2420	2844
Other postgraduate	115	06	49	65	134	159	136	113	105	62	59	33	19	25	15	9	2	2
Bachelors	970	925	1126	1024	1194	1191	1316	1170	1535	1547	1465	1547	1604	1712	1971	2150	2353	2553
Ass degrees & Adv diplomas	0	0	0	0	0	38	75	68	78	75	161	92	90	93	114	97	90	86
Diplomas	0	0	0	0	0	0	101	109	124	132	127	216	220	271	434	617	639	713
Other undergraduate	0	2	0	0	8	3	0	0	0	<10	18	10	0	0	0	0	0	0
Total	1485	1683	2499	2106	2113	2198	2522	2342	2955	2647	2541	2926	3342	3674	4317	4927	5908	6597

Women

9		0 634	0	6 482	8	2 108	0	2 1405	
	15	58(-	55	8	11	0	141	
5	22	471	4	445	17	124	0	1187	
2	14	332	4	446	7	78	0	984	
2	19	295	< 5	330	8	39	0	803	
	17	223	5	346	6	31	0	736	
į	23	157	8	259	6	21	<5	560	
	23	108	8	247	7	14	7	496	
	16	152	17	314	5	18	<10	593	
	28	186	16	315	3	22	0	630	
•	23	158	24	294	2	14	0	559	
	28	161	30	331	0	7	0	589	
	21	148	27	276	1	0	1	504	
	21	143	17	269	0	0	1	462	
-	14	175	13	230	0	0	0	443	
2	13	170	9	233	0	0	0	437	
·	9	122	15	206	0	0	0	356	
2	8	68	13	235	1	0	0	335	
	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All overseas students

Doctoral	52	46	61	65	73	100	103	153	238	246	244	316	404	346	416	368	497	522
Research masters	48	62	70	80	74	84	85	89	95	63	82	84	99	73	48	57	62	50
Coursework masters	386	693	1391	1072	805	822	927	865	1054	757	598	889	1284	1576	1768	2229	3000	3478
Other postgraduate	128	105	55	78	151	186	166	137	121	79	67	41	24	29	19	10	3	2
Bachelors	1205	1131	1359	1254	1463	1467	1647	1464	1850	1861	1712	1806	1950	2042	2417	2595	2909	3035
Ass degrees & Adv diplomas	1	0	0	0	0	39	75	70	81	80	168	101	66	101	121	114	98	94
Diplomas	0	0	0	0	0	0	108	123	146	150	141	237	251	310	512	741	751	821
Other undergraduate	0	2	0	0	6	4	0	0	0	0	25	10	0	0	0	0	0	0
Total	1820	2039	2936	2549	2575	2702	3111	2901	3585	3240	3037	3486	4078	4477	5301	6114	7320	8002
Country Date and dad by DFT																		

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

Men

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	85	91	101	95	103	129	101	137	92	88	70	95	94	127	108	133	111	121
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	9	9	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

41	10	108	10	296	15	4	0	490	
44	8	105	20	227	18	15	0	435	
ŊC	6	96	18	247	17	9	0	443	
31	6	106	31	220	14	4	0	415	
1.0	< 5	06	18	321	18	9	0	507	
30	< 5	89	14	291	6	< 5	0	435	
35	9	50	23	323	8	<5	0	446	
31	8	49	24	315	< 5	< 5	0	436	
31	10	50	29	314	•	< 5	0	435	
28	8	32	27	320	4	0	0	419	
49	11	40	12	371	0	0	0	483	
30	16	37	11	329	1	1	0	425	
20	11	27	13	351	0	0	0	428	
20	11	34	11	340	0	0	1	417	
33	6	42	15	377	1	0	0	477	
20	10	33	13	359	3	0	1	445	
24	15	35	15	323	2	0	0	414	
26	11	21	24	370	0	0	3	455	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All completing domestic students

Doctoral	111	115	127	128	123	155	131	186	120	119	107	130	124	178	139	183	153	168
Research masters	53	99	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	9	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	٢	1	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
Courses Ctatiotics anoughed bur D	ŀ																	

Source: Statistics provided by DET

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

Men

2018	200	26	1835	9	1451	67	453	0	4038
2017	193	30	1221	6	1350	79	394	0	3276
2016	160	28	1116	13	1055	82	342	0	2796
2015	134	28	953	16	1024	81	192	0	2428
2014	140	18	731	17	1088	99	149	0	2209
2013	97	20	526	22	1333	98	116	0	2212
2012	91	15	480	37	1073	85	113	0	1894
2011	73	19	654	79	989	29	92	0	1935
2010	58	19	696	59	826	48	100	0	1806
2009	53	15	642	71	771	29	85	0	1666
2008	49	24	628	84	669	29	61	0	1574
2007	54	22	489	74	708	9	48	0	1401
2006	40	25	469	96	681	0	0	0	1311
2005	38	19	796	74	627	0	0	0	1554
2004	35	23	663	54	517	0	0	0	1292
2003	20	16	509	50	448	0	0	0	1043
2002	22	12	243	26	435	0	0	0	738
2001	11	14	191	33	486	0	0	0	735
Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total

Women

98	13	489	2	355	10	78	0	1015	
11	6	317	2	294	15	78	0	792	
55	6	273	5	249	2	71	0	664	
54	18	224	8	197	6	47	0	557	
4/	5	163	7	254	5	26	0	507	
36	8	126	< 5 ×	269	9	10	0	458	
34	8	66	10	232	9	13	0	402	
31	8	149	13	263	< 5	15	0	479	
20	6	170	12	208	0	15	0	434	
12	6	144	19	183	1	14	0	382	
6	6	150	18	205	1	1	0	393	
14	8	122	14	163	1	2	0	324	
6	7	98	14	167	0	0	0	295	
8	5	140	17	169	0	0	0	339	
4	8	111	10	144	0	0	0	277	
ç	3	76	6	131	0	0	0	224	
ç	0	62	3	103	0	0	0	173	
ç	3	43	3	100	0	0	0	154	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

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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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	889	911	1267	1569	1893	1606	1725	1967	2048	2240	2414	2296	2670	2716	2985	3460	4068	5053
Contraction of the bar of the bar of	t																	

Source: Statistics provided by DET

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

Men

59 157
49 172
32 149
27 168
33 128
48 182
39 164
61 148
36 138
28 71
43
39 72
45 51
41 50
36 43
Research masters Coursework masters

Women

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

All domestic commencements

106	29	129	189	3388	381	87	0	4309	
97	47	168	179	3311	386	72	0	4260	
115	58	187	209	3499	475	57	1	4601	
103	67	192	246	3634	569	74	0	4885	
93	57	216	226	4032	797	141	0	5562	
90	39	197	181	3611	1110	71	118	5417	
85	36	209	120	3288	867	118	77	4800	
88	41	157	150	2841	793	57	0	4127	
104	62	214	136	2812	980	51	0	4363	
06	45	185	195	2663	592	23	0	3793	
84	84	163	141	2615	616	10	0	3713	
91	42	158	240	2361	451	14	0	3357	
88	32	86	295	2210	352	0	1	3064	
102	51	96	307	2129	295	0	1	2981	
149	56	80	292	2027	194	0	14	2812	
101	09	61	296	2032	188	0	17	2755	
136	54	60	206	2080	191	0	13	2740	
136	47	55	262	2143	182	0	12	2837	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degree & Adv diploma	Diploma	Other undergraduate	Total	

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

Men

7 2018	132	17	715	18	436	32	53	59	9 1462
201	125	23	470	6	466	25	43	68	122
2016	141	10	361	15	452	31	49	72	1131
2015	131	15	309	16	491	15	96	18	1091
2014	147	13	382	12	511	19	102	0	1186
2013	118	18	293	27	410	43	0	142	1051
2012	118	16	188	22	387	18	0	48	797
2011	90	17	143	32	402	8	44	0	736
2010	80	27	197	49	407	5 >	71	49	882
2009	81	13	223	39	424	57	0	45	882
2008	65	9	137	37	304	45	0	50	644
2007	75	17	181	40	320	34	0	33	002
2006	33	11	173	19	344	2	0	28	610
2005	30	16	183	27	347	9	0	26	635
2004	33	20	253	15	545	10	0	24	006
2003	35	8	214	27	677	7	0	0	896
2002	35	6	166	48	645	14	0	1	918
2001	24	12	191	32	565	3	0	0	827
Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degree & Adv diploma	Diploma	Other undergraduate	Total

Women

60	3	101	3	120	11	2	12	312	
50	3	81	2	118	6	1	11	275	
58	3	83	3	102	9	5	5	265	
48	5	65	<5	141	<5	S >	5	273	
40	5	82	< 5	120	0	13	0	262	
55	6	65	< 5	87	26	0	6	255	
45	8	54	7	87	< 5	< 5	< 5	208	
35	7	55	3	72	3	7	0	182	
38	3	47	11	73	0	11	10	193	
44	9	27	5	99	9	0	15	169	
28	9	26	11	32	2	0	13	118	
11	3	49	4	51	3	0	19	146	
13	2	30	7	36	٢	0	6	98	
8	2	30	3	51	1	0	6	104	
3	2	35	5	57	٢	0	8	111	
/	0	34	2	124	1	0	0	168	
9	2	30	8	84	1	0	0	134	
8	3	26	4	97	0	0	3	141	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degree & Adv diploma	Diploma	Other undergraduate	Total	

All overseas commencements

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

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

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

Men

2018	62	17	85	103	1683	160	79	0	2189
2017	59	17	97	111	1673	178	55	0	2190
2016	52	20	114	147	1634	200	60	1	2228
2015	62	16	135	154	1528	252	61	0	2225
2014	0.2	26	101	123	1410	257	49	0	2036
2013	02	22	108	134	1262	205	41	0	1842
2012	71	16	94	84	1243	261	33	0	1802
2011	59	15	87	130	1152	173	35	0	1651
2010	78	13	99	115	1010	185	12	0	1479
2009	53	15	55	119	1068	169	3	0	1482
2008	91	20	61	82	875	123	3	0	1255
2007	58	21	89	85	926	86	3	0	1274
2006	63	21	48	77	905	49	3	0	1166
2005	75	26	49	49	262	48	2	0	1044
2004	09	25	48	78	305	46	1	13	1176
2003	64	29	42	50	847	50	1	42	1125
2002	47	25	22	52	006	78	2	0	1126
2001	45	24	29	61	885	74	1	0	1119
Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total

Women

53	4	23	17	322	21	7	0	423	
23	<5	21	16	339	15	9	0	422	
31	7	24	26	292	36	8	0	424	
29	<5	38	20	279	31	S >	0	406	
21	9	36	20	214	29	6	0	341	
25	8	20	20	211	28	6	0	321	
20	7	17	25	232	30	2 2	0	334	
16	9	12	28	213	21	< 5	0	300	
77	5	12	29	168	29	< 5	0	266	
16	0	14	27	134	17	1	0	209	
24	2	10	16	123	18	0	0	193	
21	7	15	16	126	7	3	0	195	
9	6	8	13	141	3	0	0	183	
23	7	9	11	114	5	0	0	166	
13	4	9	13	121	7	0	0	167	
9	7	5	11	125	10	0	1	168	
8	5	3	8	138	4	0	0	166	
5	8	5	6	140	2	0	0	166	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All domestic completions

2 91	7 21	8 108	120	12 2005	181 181	1 86	0	12 2612	
80	÷	11	12	20	19	ė	•	26	
83	27	138	173	1926	236	68	٢	2652	
108	16	173	174	1807	283	61	0	2631	
97	32	137	143	1624	286	58	0	2377	
95	30	128	154	1473	233	50	0	2163	
91	23	111	109	1475	291	36	0	2136	
75	21	66	158	1365	194	39	0	1951	
100	18	78	144	1178	214	13	0	1745	
69	15	69	146	1202	186	4	0	1691	
115	22	71	98	998	141	3	0	1448	
106	28	83	101	1052	93	9	0	1469	
72	30	56	90	1046	52	3	0	1349	
98	33	55	60	606	53	2	0	1210	
73	29	57	91	1026	53	1	13	1343	
73	36	47	61	972	60	٢	43	1293	
55	30	25	60	1038	82	2	0	1292	
50	32	34	67	1025	76	٢	0	1285	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total	Source: Data provided by DET

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

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

Men

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	17	14	18	27	25	20	31	18	39	54	44	54	92	114	91	107	95	96
Research masters	4	9	5	4	9	15	5	13	8	6	12	8	11	17	9	11	14	10
Coursework masters	123	136	177	175	170	184	181	163	137	151	200	135	180	236	213	231	264	324
Other postgraduate	34	66	28	14	10	21	29	32	32	37	34	35	31	14	15	17	17	23
Bachelors	265	289	304	317	375	295	219	220	225	202	233	265	270	261	265	286	322	344
Assoc degrees & Adv diplomas	0	0	1	1	2	٢	5	25	38	21	< 5	15	7	11	13	13	18	13
Diplomas	0	0	0	1	1	0	0	0	1	19	44	24	39	57	59	47	23	25
Other undergraduate	0	0	0	9	11	16	8	11	15	0	0	0	0	0	0	0	0	44
Total	443	511	533	545	600	552	478	482	495	493	568	536	630	710	662	746	808	881

Women

35	<5	74	<5	102	9	<5	11	234	
43	<5	71	<5	89	<5	<5	8	221	
33	6	60	<5	62	<5	0	<5	176	
40	<5	70	<5	58	5	9	0	183	
41	5	51	< 5	66	7	9	0	183	
41	< 5	59	7	57	< 5	5	0	177	
21	0	31	5	37	< 5	<5	0	66	
11	5	53	< 5	31	0	6	0	119	
9	< 5	20	8	27	< 5	5	0	76	
4	2	31	5	26	3	0	3	74	
3	3	41	8	33	2	0	5	92	
4	1	29	2	39	1	0	۱	17	
8	1	28	3	38	0	0	5	83	
4	1	35	5	60	0	0	5	110	
7	1	25	3	68	1	0	2	102	
7	٢	35	4	51	0	0	0	93	
7	2	17	14	58	0	0	0	93	
7	2	25	9	48	0	0	0	83	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All overseas completions

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

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

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

Men

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

Women

R	2	2	4	187	16	3	0	228	
77	<5	5	9	140	16	<5	0	194	
77	<5	18	<5	151	17	<5	0	217	
16	<5	13	17	183	6	<5	<5	240	
11	0	20	22	153	15	< 5	0	228	
11	7	18	18	142	10	< 5	9	219	
11	< 5	15	23	152	8	< 5	8	220	
y	1	15	21	128	4	1	3	182	
ø	<5	12	16	127	8	0	<5	176	
10	1	16	20	136	6	0	2	194	
10	10	17	14	66	4	0	4	158	
11	1	4	4	101	0	0	0	121	
72	1	13	9	70	0	0	0	102	
ø	1	3	2	75	1	0	6	102	
91	1	6	1	79	0	1	12	119	
11	3	2	1	97	0	2	20	142	
71	4	2	3	101	0	2	8	132	
c	5	0	3	109	0	0	7	129	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All domestic commencements

46	5	35	15	663	134	12	3	1243	
58	5	53	30	967	146	37	0	1301	
63	13	85	14	966	153	21	2	1358	
81	12	80	60	1133	101	21	2	1495	
72	10	100	71	1144	140	33	< 5	1573	
81	16	106	74	1173	133	16	37	1636	
56	14	98	100	1108	59	24	39	1498	
55	10	100	90	277	40	15	28	1315	
51	11	100	64	926	54	0	11	1224	
51	10	82	103	933	89	0	8	1255	
45	45	69	73	735	86	0	21	1074	
64	4	74	18	684	0	0	0	844	
58	12	66	34	716	1	0	0	887	
42	16	24	18	641	1	0	42	784	
64	7	61	32	653	0	7	63	887	
85	24	32	24	683	0	5	65	918	
53	39	22	19	708	0	13	53	907	
38	27	12	15	751	0	4	89	936	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

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

Men

Women

13	2	81	2	110	7	8	0	223	
٩L	2	67	2	111	2	16	0	219	
16	0	58	2	89	1	26	0	192	
11	<5	73	2 2	66	<5	21	0	213	
18	0	64	0	91	< 5	25	0	199	
16	< 5	49	< 5 ×	86	< 5	7	0	164	
21	< 5	35	< 5	86	0	7	0	157	
14	5	53	<5	97	0	9	0	175	
13	<5	58	9	81	0	<5	0	164	
14	0	73	8	101	0	8	0	204	
14	0	78	2	106	0	1	0	201	
ø	1	56	0	81	0	55	0	201	
,	0	37	0	61	0	67	0	172	
9	2	41	4	61	0	44	0	158	
٥	4	49	0	49	0	0	0	108	
ø	0	41	0	41	0	0	0	0 6	
c	0	21	0	47	0	18	0	91	
ø	3	14	0	32	0	0	0	57	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All overseas commencements

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

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

Men

4 32 37 47 49
< 5 5 5
63 62
8 g
8
40
11
9
8
9 8
7 15
5 12
6 20
:h masters ork masters

Women

11	0	17	7	93	7	<5	0	142	
13	0	10	6	80	<5	<5	0	115	
14	<5	23	18	107	<5	0	0	167	
9	<5	16	35	91	<5	0	0	156	
72	< 5	16	65	83	< 5	0	0	179	
10	5	14	24	80	< 5	< 5	0	136	
8	< 5	11	27	63	< 5	0	0	113	
9	< 5	14	21	80	< 5	0	0	126	
10	0	8	21	63	< 5	0	0	105	
8	2	8	9	20	1	0	0	95	
11	2	9	19	43	0	0	0	87	
8	0	0	3	55	0	1	0	67	
11	0	3	٢	64	0	٢	0	80	
8	-	3	3	63	0	0	0	78	
4	2	2	2	67	0	0	0	- 77	
ç	2	1	2	81	0	0	0	91	
ø	3	1	2	88	0	1	0	101	
9	4	0	3	77	0	0	0	90	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All domestic completions

						2	į	į	:	:		2			ļ	2	į	k
	31	31	41	39	33	39	39	65	41	4/	33	32	44	44	46	61	29	64
	10	8	6	8	6	6	2	12	10	8	5	5	10	9	9	0	0	9
	20	13	16	20	25	18	11	46	57	68	77	73	77	88	96	91	65	65
	15	12	14	19	20	22	16	73	50	104	104	128	122	199	144	74	36	49
	395	463	497	374	440	424	424	427	426	542	512	463	553	570	646	656	624	645
	0	0	0	0	0	0	0	0	8	18	13	7	28	6	22	31	44	45
	3	9	٢	2	-	2	2	0	0	0	< 5	10	< 5	<5	5	5	22	12
\vdash	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•
	474	533	578	462	528	514	494	623	598	787	746	718	837	920	970	925	860	887

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

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

Men

5	001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
4	-	。 。	7	6	7	12	18	16	10	25	8	14	29	31	33	33	27	20
2		0	3	3	3	7	5	5	5	< 5	5	5	< 5	< 5	<5	<5	<5	<5
27 4	7	5	106	129	291	272	305	362	295	298	244	253	235	189	213	232	212	232
10 1	-	9	22	11	21	39	12	20	22	36	59	35	15	19	15	5	<5	6
58 11	÷	4	202	227	208	194	184	235	326	388	350	365	387	482	317	347	342	254
0 0	•	Η	0	0	0	0	8	0	0	0	< 5	< 5	< 5	< 5	9	<5	<5	7
0 0	•		5	10	12	36	28	58	16	40	51	34	47	81	73	96	111	67
0	9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 18	18	31	345	389	542	560	560	969	674	791	718	709	720	808	661	718	669	590

Women

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

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	6	9	9	9	5	7	5	9	< 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	9
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	9	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.

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

Men

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

Women

21	2	60	16	113	0	13	0	216	
12	7	68	14	106	0	11	0	218	
23	9	69	22	113	0	10	0	243	
21	8	66	15	132	0	5	0	280	
23	< 5	99	25	170	0	< 5	62	351	
20	7	14	30	146	0	7	62	303	
23	8	14	33	169	< 5	< 5	74	325	
10	4	18	28	274	0	2	06	426	
15	5	18	34	260	1	2	78	413	
21	5	16	15	239	0	3	32	331	
13	13	19	16	222	0	2	14	299	
ç	1	11	20	217	<10	<10	14	268	
2	1	10	14	188	0	0	6	224	
11	5	10	12	157	5	0	11	211	
8	5	7	12	167	2	0	8	209	
ç	3	3	7	173	2	0	16	209	
14	2	9	7	170	7	0	18	224	
6	2	9	3	156	2	0	15	193	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All domestic students

54	11	336	54	964	0	127	0	1546	
70	22	422	70	972	0	66	0	1655	
82	33	499	94	1037	0	90	0	1835	
88	35	505	67	1015	0	62	0	1772	
78	26	291	129	1292	0	57	230	2103	
68	20	88	112	1288	9	52	265	1899	
61	25	96	160	1269	9	18	226	1861	
67	22	136	142	1981	9	16	259	2629	
74	29	106	168	1839	8	16	222	2462	
70	27	124	249	1654	4	15	127	2270	
46	46	86	196	1540	0	12	77	2003	
37	10	70	76	1470	4	12	45	1724	
25	6	65	06	1375	0	0	11	1575	
40	14	56	66	1166	26	0	15	1383	
63	12	59	60	1147	19	0	6	1369	
52	11	31	53	1144	14	0	20	1325	
45	6	45	30	1094	19	0	19	1261	
37	17	40	18	1040	18	0	16	1186	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

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

Men

2018	83	8	583	10	625	0	225	0	1534	
2017	68	9	537	17	585	0	259	0	1470	
2016	58	14	634	21	831	2	210	0	1770	
2015	99	13	522	23	767	0	252	0	1643	
2014	88	14	367	25	715	0	249	0	1458	
2013	62	12	245	06	607	< 5	192	0	1211	
2012	73	8	234	74	663	5	103	0	1160	
2011	67	7	186	57	767	29	133	0	1246	
2010	53	11	200	57	768	6	139	0	1237	
2009	72	6	218	86	636	4	101	0	1126	
2008	51	9	209	53	581	0	71	10	981	
2007	41	5	179	35	491	0	98	0	849	
2006	25	10	237	22	451	0	0	0	745	
2005	25	16	392	8	432	0	0	0	873	
2004	22	8	97	5	430	0	0	0	562	
2003	15	10	48	2	325	0	0	0	400	
2002	22	8	39	0	214	0	0	0	283	
2001	25	7	30	0	173	0	0	0	235	
Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

Women

17	4	106	7	137	0	34	0	305	
21	4	123	3	160	0	53	0	364	
22	5	97	10	149	1	24	0	308	
26	9	92	7	205	0	16	0	352	
33	5	57	< 5	161	0	23	0	281	
17	5	39	18	157	0	19	0	255	
21	< 5	40	15	135	< 5	16	0	232	
21	5	25	14	210	0	11	0	286	
11	5	44	10	190	1	25	0	286	
32	3	28	9	161	0	15	0	245	
33	5	32	5	154	0	12	0	241	
15	2	24	5	114	0	18	0	178	
5	4	36	2	117	0	0	0	164	
8	2	85	3	130	0	0	0	228	
6	1	15	3	114	0	0	0	139	
5	2	9	0	113	0	0	0	126	
3	4	2	1	82	0	0	0	91	
1	1	1	0	24	0	0	0	27	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All overseas students

100	12	689	17	762	0	259	0	1839
89	10	660	20	745	0	312	0	1834
80	19	731	31	980	3	234	0	2078
92	19	614	30	972	0	268	0	1995
121	19	424	27	876	0	272	0	1739
79	17	284	108	764	< 5	211	0	1466
94	12	274	89	798	9	119	0	1392
88	12	211	71	277	29	144	0	1532
64	16	244	67	958	10	164	0	1523
104	12	246	92	797	4	116	0	1371
84	11	241	58	735	0	83	0	1222
56	7	203	40	605	0	116	0	1027
30	14	273	24	568	0	0	0	606
33	18	477	11	562	0	0	0	1101
28	6	112	8	544	0	0	0	701
20	12	54	2	438	0	0	0	526
25	12	44	1	292	0	0	0	374
26	8	31	0	197	0	0	0	262
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total

Table A19: Domestic Students Completing 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	11	15	24	26	25	18	30	50	30	20	21	30	25	29	47	44	44	36
Research masters	10	5	5	10	3	3	10	3	8	11	< 5	13	11	9	<5	6	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	9	< 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	395	1059	1083	1045	1016	1004

Women

28	\$5	75	15	65	0	₹2	0	186	
19	<5	70	122	66	0	<5	0	205	
10	9	59	19	105	0	<5	0	200	
9	<5	34	23	124	0	<5	0	198	
12	< 5	14	33	140	0	< 5	0	203	
10	< 5	13	31	141	< 5	< 5	0	201	
1	< 5	10	20	129	0	0	0	167	
< 5	< 5	14	20	132	0	0	0	171	
8	< 5	16	11	121	0	0	0	158	
1	2	7	12	114	0	0	0	142	
1	2	9	10	100	0	9	0	131	
21	0	8	6	101	0	7	0	137	
6	0	2	7	116	0	0	0	134	
/	0	+	9	102	0	0	0	116	
1	5	3	4	110	1	0	0	130	
9	0	9	3	124	0	0	0	139	
ç	+	+	3	129	0	0	0	139	
3	٢	0	2	120	٢	0	0	127	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All domestic students

Doctoral	14	20	30	33	32	27	42	57	37	28	22	37	35	41	56	54	63	64
Research masters	11	9	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	9	< 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

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
I	7	+	10	7	19	18	19	20	17	27	33	46	43	35	50	70	43	63
	5	2	2	8	7	10	6	5	7	5	8	6	7	9	9	6	6	12
	16	31	39	45	63	73	105	123	138	163	226	197	220	213	291	348	410	449
	2	0	0	1	9	14	32	32	51	79	66	55	86	57	34	17	10	15
	73	95	94	130	124	174	224	298	308	314	459	424	456	478	405	457	454	517
I	0	0	0	0	0	0	0	0	0	< 5	0	10	11	< 5	0	0	0	0
	0	0	0	0	0	0	94	104	72	< 5	25	27	43	148	168	144	137	138
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	103	129	145	191	219	289	483	582	593	596	817	768	866	940	954	1045	1063	1194

Women

71	5	86	5	136	•	37	0	281	
18	<5	93	6	138	0	31	0	293	
CL	<5	53	9	113	0	11	0	202	
10	<5	44	8	119	0	16	0	200	
18	< 5	41	16	135	0	15	0	229	
11	< 5	39	14	127	< 5	< 5	0	195	
10	< 5	36	7	123	< 5	< 5	0	187	
17	< 5	33	14	138	0	< 5	0	208	
0	< 5	20	12	94	0	< 5	0	134	
ø	3	17	9	87	0	12	0	133	
S	1	19	5	117	0	20	0	165	
9	1	13	9	94	0	28	0	151	
2	1	11	3	73	0	0	0	90	
7	3	14	3	45	0	0	0	67	
s	1	12	1	48	0	0	0	65	
0	1	5	1	35	0	0	0	42	
7	0	2	0	19	0	0	0	23	
0	1	3	1	20	0	0	0	25	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All overseas students

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

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

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

Men

017 2018	10 <5	<5 <5	99	12 12	95 207	<5 <5	0 0	0 0	
2016 2	10	0	8	25	273 2	8	0	0	
2015	8	<5	13	48	347	<5	0	0	
2014	6	< 5	10	47	368	0	0	0	
2013	< 5	< 5	7	46	413	0	0	0	140
2012	8	7	5	27	250	10	50	38	200
2011	<5	2 2	<5	37	211	74	65	0	200
2010	16	5	0	42	179	73	55	0	27.0
2009	8	2	0	8	185	86	58	0	
2008	3	3	0	4	150	47	72	0	020
2007	5	2	0	5	175	57	81	328	020
2006	9	3	0	4	120	29	42	316	1003
2005	5	6	0	8	141	44	45	275	203
2004	7	2	0	3	162	31	39	429	040
2003	10	3	0	2	163	26	39	471	111
2002	4	3	0	4	159	21	56	434	100
2001	1	6	0	9	175	8	22	82	000
Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Takat

Women

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

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	6	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	9	9
Other postgraduate	9	9	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	698	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.

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

Men

<5 0 0
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•
0
0
•
0
0
Coursework masters

Women

\$	0	5	0	35	۶5	0	0	43
\$	0	<5	0	31	<5	0	0	40
0	0	<5	<5	17	0	0	0	23
<5	<5	0	<5	24	0	0	0	30
0	0	< 5	< 5	18	0	0	0	23
0	0	< 5	< 5	19	0	0	0	21
< 5	0	0	< 5	20	0	0	0	23
<5	0	0	<5	27	<5	0	0	30
<5	0	0	0	55	<5	0	0	57
0	0	0	1	49	1	0	0	51
0	0	0	0	34	0	0	0	34
0	0	0	0	16	0	0	0	16
0	٢	0	2	5	0	0	0	8
0	0	0	0	5	0	0	0	5
0	0	0	0	8	1	0	0	6
1	0	0	0	10	0	0	1	12
0	1	0	3	8	0	0	1	13
1	0	0	0	6	0	0	0	10
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total

All Overses Commencements

Doctoral	2	2	4	2	3	2	0	0	2	5	9	19	6	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	+	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	٢	0	0	0	0	< 5	0	0	0	0	0	0
Total	5 8	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.

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

Men

5 5 14	<5 0 <5 <5 5 5 <5 5 5 26 19 20	<5 0 <5 <5 0 <5 <5 <5 5 26 19 20 179 151 162	 <5 <5 <5 <5 5 	<5	<5
2	23 53 < 0	0 <5 160	0 53 160 53	0 53 53 53 53 53	0 0 \$ 10 23 20
9 2 2 0	22	0 22 143	0 22 143 9	0 22 143 9 0	0 22 143 9 0
0 <	< 5 19	< 5 19 135	< 5 19 135 <5	<pre>< 5 19 135 </pre> <pre>< 6 </pre>	 5 19 135 65 0 0
~ 2 ~ ~	20 0	101 101	0 101 48	0 20 48 26	0 20 26 26 0
9 <mark>2</mark> 0	, 16	16 10	16 100 46	16 100 46 27	16 100 46 27 0
o ۲ ⁰ ۵	< 5	45	<5 71 33	<pre><5 71 71 33 33 41</pre>	<pre><5 <71 71 83 33 0</pre>
5 O O	2	2 70	2 70 32	2 70 32 22	2 32 22 0
∞ - 0	-	- 89	1 68 24	1 68 30 30	0 30 24 68
4 m o	4	4 90	4 90 28	4 90 28 34	4 90 28 34 156
د م م	3	3 84	31 31	3 31 31	3 84 31 31 218
0 - 0	3	3 72	3 72 32	3 72 32 43	3 72 32 43 168
~ 0 0	2	2 96	2 96 26	2 96 26 20	2 96 26 429
0 7 6	2	2 59	2 59 22	2 59 22 49	2 59 22 49 162
6 m 0	4	4 75	4 75 16	4 75 16 47	4 75 16 47 271
o 4 5	3	3 71	3 71 8	3 71 8 23	3 71 8 86
Doctoral Research masters Coursework masters	Other postgraduate	Other postgraduate Bachelors	Other postgraduate Bachelors Assoc degrees & Adv diplomas	Other postgraduate Bachelors Assoc degrees & Adv diplomas Diplomas	Other postgraduate Bachelors Assoc degrees & Adv diplomas Diplomas Other undergraduate
		Bachelors 71 75 59 96 72 84 90 68 70 71 100 101 135 143 160 179 151 162	Bachelors 71 75 59 96 72 84 90 68 70 71 100 101 135 143 160 179 151 162 Assoc degrees & Adv diplomas 8 16 22 26 32 31 28 24 32 33 46 48 <5	Bachelors 71 75 59 96 72 84 90 68 70 71 100 101 135 143 160 179 151 162 Assoc degrees & Adv diplomas 8 16 22 26 32 31 28 24 32 33 46 48 <5	Bachelors 71 75 59 96 72 84 90 68 70 71 100 101 135 143 160 179 151 162 Assoc degrees & Adv diplomas 8 16 22 26 32 31 28 24 32 33 46 48 <5

Women

0	0	0	<5	12	0	0	0	15	
ŝ	0	0	<5	15	0	0	0	21	
0	0	0	9	12	0	0	0	18	
\$	0	0	12	21	0	0	0	34	
< 5	0	< 5	< 5	15	0	0	0	22	
< 5	< 5	0	< 5	6	0	0	0	15	
< 2	0	0	6	< 5	<5	< 5	0	18	
0	0	0	8	6	< 5	< 5	0	20	
< >	0	0	< 5	8	< 5	0	0	14	
0	0	0	3	4	2	1	0	10	
0	0	0	2	6	2	1	0	14	
D	0	0	2	7	5	0	4	18	
-	0	0	3	11	٢	٢	3	20	
0	-	0	3	10	2	0	4	20	
D	0	0	2	18	0	0	1	21	
1	0	0	0	6	1	1	4	16	
1	1	0	0	12	1	1	13	29	
o	1	0	0	6	1	0	1	12	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All Domestic Completions

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

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

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

Men

	F 11 25 10	F 11 <f 12<="" th=""></f>
0	< 5 5 5	< 5 5
•	2 2 2 ~ 2	22 V
•	0 45	0 45
•	0	د 5 0
	~ 2 ~ 2	۰ <mark>د</mark> ۲
	- 3	~ ~
-	500	0 7 0
-	2	0 7 7
-	00	• • •
•	00	• • •
•	2	7 7 0
0	1 2	0 7 2
0	10	- 0 0
0	0 -	0 - 0
Coursework masters	Doctoral Research masters	Doctoral Research masters Coursework masters

Women

0	<5	5	<5	20	0	0	0	28
ŝ	0	<5	0	25	0	0	0	30
0	0	<5	0	10	0	0	0	11
0	0	<5	<5	14	0	0	0	18
c >	0	< 5	0	< 5	0	0	0	9
0	0	0	0	< 5	0	0	0	< 5
0	0	0	0	16	0	0	0	16
0	0	0	0	20	0	0	0	20
0	0	0	0	14	< 5	0	0	15
0	0	0	0	8	0	0	0	8
0	0	0	0	5	0	0	0	2
0	1	0	0	2	0	0	0	3
0	0	0	٢	7	0	0	0	8
0	0	0	0	4	0	0	0	4
0	0	0	0	9	1	0	0	7
0	0	0	0	5	0	0	0	2
0	0	0	0	5	0	0	٦	9
L	0	0	1	8	0	0	0	10
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total

All Overses Completions

Doctoral	1	1	2	٢	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	٢	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	6	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	٢	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.

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

Men

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	0	0	0	٢	4	0	0	1	1	<5	<5	< 5	0	< 5	0	<5	<5	€5
Research masters	1	0	0	0	0	0	0	1	1	<5	<5	< 5	0	< 5	<5	0	<5	<5
Coursework masters	0	0	0	2	1	0	0	0	0	<5	<5	< 5	< 5	< 5	<5	<5	<5	<5
Other postgraduate	0	1	٦	1	0	2	4	0	0	0	0	0	0	0	0	0	0	0
Bachelors	18	19	12	42	48	19	43	22	28	64	63	84	84	73	79	67	58	81
s degrees & Adv diplomas	0	0	3	0	0	0	0	<10	5	8	6	8	10	24	12	17	16	18
Diplomas	0	0	0	0	0	0	0	15	51	65	47	45	39	33	22	21	23	16
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	19	20	16	46	53	21	47	39	86	143	124	140	135	136	118	108	102	122

Women

	0 0	0 <5	0 0	9 13	<5 <5	5 8	0 0	5 26
$\left \right $	_				Ľ	Ľ		
ļ	<5	<5	0	11	₹2	<5	0	18
	0	<5	0	16	<5	<5	0	23
	< 5	< 5	0	17	< 5	9	0	28
	0	< 5	0	10	< 5	13	0	30
ſ	0	0	0	13	< 5	9	0	21
	0	0	0	15	<5	6	0	25
I	0	0	0	6	0	8	0	17
	0	0	0	9	0	<10	0	9
	0	0	0	5	0	0	0	2
	0	0	3	3	0	0	0	9
	0	0	2	2	0	0	0	4
	0	0	0	5	0	0	0	2
	0	0	2	8	0	0	0	11
ſ	-	0	9	3	0	0	0	10
	0	0	5	1	0	0	0	9
	0	0	0	2	0	0	0	2
	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total

_ _ _ _

All domestic commencements

Doctoral	0	0	0	2	4	0	0	1	1	<5	<5	< 5	< 5	< 5	0	0	0	0
Research masters	1	0	1	0	0	0	0	1	1	<5	<5	< 5	0	< 5	0	0	0	0
Coursework masters	0	0	0	2	1	0	0	0	0	<5	<5	< 5	5	5	0	0	0	0
Other postgraduate	0	9	7	3	0	4	7	0	0	0	0	0	0	0	0	0	0	0
Bachelors	20	20	15	50	53	21	46	27	34	73	78	97	94	90	95	78	67	94
Ass degrees & Adv diplomas	0	0	3	0	0	0	0	0	5	8	10	10	12	26	12	17	16	18
Diplomas	0	0	0	0	0	0	0	15	51	73	56	51	52	39	22	21	23	24
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	21	26	26	57	58	25	53	44	92	160	149	161	165	164	141	126	117	148

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

Men

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	0	0	0	0	0	1	0	1	0	0	0	0	0	0	<5	<5	0	0
esearch masters	0	0	0	0	0	0	0	0	0	0	0	0	0	< 5	0	0	0	0
ursework masters	0	0	0	1	14	10	9	8	0	5	10	16	20	37	57	56	54	46
her 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	6	16	16	5	20	31	16	6
grees & 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	6	<5	5	< 5	7	0	<5	<5	0
ner undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	ŀ	٢	3	19	12	6	13	12	18	31	39	39	53	80	92	71	55

Women

Ŷ	0	2	0	<5	0	0	0	10
•	<5	12	0	<5	0	0	0	15
0	0	5	0	<5	0	0	0	8
0	0	9	0	S >	0	0	0	6
0	0	< 5	0	< 5	0	0	0	< 5
0	0	< 5	0	< 5	0	< 5	0	< 5
0	0	< 5	0	< 5	0	< 5	0	5
0	0	<5	0	<5	0	<5	0	5
0	0	<5	0	<5	0	<5	0	\$5
0	0	0	0	2	0	0	0	2
1	0	0	0	0	0	0	0	Ŧ
0	0	2	2	2	0	0	0	9
0	0	٢	٢	0	0	0	0	2
0	0	9	0	2	0	0	0	•
0	0	0	0	2	0	0	0	2
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total

All overseas commencements

	•	0	0	0	0	-	0	2	0	0	0	0	0	0	0	0	0	•
s	0	0	0	0	0	0	0	0	0	0	0	0	0	< 5	0	0	0	0
ers	0	0	0	1	20	11	8	8	0	9	11	18	21	40	63	61	66	53
ate	0	0	0	0	0	٢	2	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	4	7	٢	5	3	10	5	12	18	17	9	20	31	16	6
iplomas	0	0	0	0	0	0	0	0	2	0	8	< 5	0	< 5	0	0	0	0
	0	0	0	0	0	0	0	٢	2	10	5	9	< 5	7	0	0	0	0
uate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	٢	ł	5	27	14	15	14	14	21	36	44	42	57	89	100	86	65
bv DET																		

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

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

Men

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

Women

•	0	0	0	<5	0	<5	0	8	
0	<5	0	0	<5	0	0	0	5	
0	0	0	0	5	0	0	0	5	
0	0	0	0	7	0	<5	0	6	
o	0	0	0	< 5	0	0	0	< 5	
U	0	0	0	< 5	0	< 5	0	<5	
0	0	0	0	< 5	0	< 5	0	<5	
0	0	0	0	< 5	0	< 5	0	< 5	
0	0	0	0	0	0	0	0	0	
1	0	0	0	0	0	0	0	1	
0	0	0	0	1	0	0	0	1	
0	0	0	0	1	0	0	0	1	
0	0	0	1	1	0	0	0	2	
0	0	0	1	0	0	0	0	1	
D	0	0	1	1	0	0	0	2	
0	0	0	0	0	0	0	0	0	
D	0	0	0	1	0	0	0	1	
o	0	0	0	2	0	0	0	2	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All domestic completions

Doctoral	٢	0	0	0	1	٢	0	0	2	0	0	0	0	< 5	0	0	0	0
Research masters	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Coursework masters	0	0	0	1	0	0	0	0	0	0	< 5	0	0	< 5	0	0	0	0
Other postgraduate	0	0	0	٢	1	2	٢	0	0	0	0	0	0	0	0	0	0	0
Bachelors	4	11	2	4	3	6	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	0	5	17	11	16	16	8	7	0	9
Other undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5	11	2	9	8	12	9	11	7	20	38	26	24	33	34	33	28	46
Source: Data provided by DET																		

Source: טמנש הסיומפים שעיובי Note: Small cells accurately included in panel totals but do not necessarily add across cells in Table.

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

Men

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	٢	0	0	0	+	0	0	0	0	0	0	< 5	•	0	0	0	0	0
sters	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<5	0	0
asters	0	0	0	1	2	8	5	7	2	< 5	< 5	< 5	5	8	7	20	32	41
duate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
s	0	0	0	0	1	0	0	1	2	0	< 5	< 5	5	5	7	7	8	7
dv diplomas	0	0	0	0	0	0	0	0	0	0	0	< 5	0	<5	<5	0	0	0
s	0	0	0	0	0	0	0	0	1	< 5	< 5	< 5	< 5	0	<5	<5	<5	<5
aduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	-	•	•	-	4	•	2	•	2	< 5	9	5	13	14	18	29	41	49

Women

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•	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
0 0	00	0 0 0	0000	• • • • • •
tgraduate	Other postgraduate Bachelors	Other postgraduate Bachelors soc degrees & Adv diplomas	Other postgraduate Bachelors soc degrees & Adv diplomas Diplomas	Other postgraduate Bachelors ssoc degrees & Adv diplomas Diplomas Other undergraduate
		0 0 0 0 0 0 1 0 mas 0	mas 0 0 0 1 0 imas 0 0 0 0 0 1 0 imas 0 0 0 0 0 0 0 0	0 0 0 1 mas 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

All overseas completions

Doctoral	1	0	0	0	٦	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	٢	0	0	0	0	0	0	0	0	0	0	0
Bachelors	0	0	0	0	٢	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	٢	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	6	7	0	9	5	19	14	18	34	46	55
Source: Data provided by DFT																		

Source: טמנש הסיומפים שעיובי Note: Small cells accurately included in panel totals but do not necessarily add across cells in Table.

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

Men

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Doctoral	7	9	19	23	23	18	19	19	11	19	19	18	22	15	19	12	12	12
Research masters	2	5	3	5	2	0	2	19	9	<5	<5	< 5	< 5	< 5	5	0	0	<5
Coursework masters	0	0	3	10	15	17	21	5	6	9	8	< 5	< 5	5	5	<5	9	<5
Other postgraduate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bachelors	127	145	138	155	124	114	121	142	106	135	122	151	135	136	151	154	139	136
Ass degrees & Adv diplomas	0	0	0	0	0	0	8	6	8	14	6	12	16	< 5	0	0	0	0
Diplomas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	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

-	0	0	0	36	0	\$5	0	44	
\$	<5	0	0	53	0	<5	0	60	
/	<5	0	0	34	0	0	0	42	
\$2	<5	<5	0	30	0	0	0	35	
'	< 5	< 5	0	32	0	0	0	42	
0	0	0	0	27	0	0	0	32	
ø	0	0	0	28	0	0	0	36	
\$	<5	<5	0	36	<5	0	0	44	
,	<5	<5	0	34	<5	0	0	44	
s	0	2	0	24	0	0	0	29	
ø	8	0	0	16	0	0	0	32	
7	٢	4	0	14	٢	0	0	22	
s	1	2	0	12	0	0	0	18	
s	0	2	0	17	0	0	0	22	
4	0	0	0	27	0	0	0	31	
7	٢	٢	0	25	0	0	0	29	
s	1	0	0	21	0	0	0	25	
0	0	0	0	13	0	0	0	13	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All domestic commencements

2 19	0 0	9	0	32 172	0	2	0	15 191	
9 1	0	0	0	88 1	0	0	0	07 2'	
1		_	_	1 18				0 2(
1	5	5	•	3 18	•	•	0	21	
22	< 5	9	0	168	< 5	0	0	200	
27	< 5	< 5	•	162	16	•	0	210	
26	< 5	< 5	0	179	12	0	0	221	
22	<5	10	0	158	11	0	0	205	
26	<5	7	0	169	15	0	0	220	
14	9	11	0	130	8	0	0	169	
27	27	5	0	158	6	0	0	226	
21	3	25	0	135	6	0	0	193	
21	1	19	0	126	0	0	0	167	
26	2	17	0	141	0	0	0	186	
27	5	10	0	182	0	0	0	224	
21	4	4	0	163	0	0	0	192	
6	9	0	0	166	0	0	0	181	
7	2	0	0	140	0	0	0	149	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	Person Date and day her DET

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

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

Men

Level	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	9	9	7	7	11	10	11	15	19	24	33	22	22	21	28	31	29	34
ters	0	1	2	2	1	۱	2	2	٢	<5	<5	< 5	< 5	< 5	<5	<5	<5	0
Isters	0	0	8	21	23	43	43	29	35	48	29	26	36	32	43	51	63	65
uate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	20	23	24	31	23	28	53	61	61	99	56	99	74	82	105	81	53
diplomas	0	0	0	0	0	0	0	0	0	0	0	0	< 5	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	<5
duate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	17	27	40	54	99	77	84	66	116	137	130	105	129	130	155	190	182	155

Women

RL.	\$	14	0	12	0	ŝ	0	47	
LL	0	16	0	43	0	<5	0	60	
\$2	0	17	0	41	0	0	0	60	
13	0	11	0	18	0	0	0	42	
9	0	7	0	35	0	0	0	48	
,	0	8	0	18	0	0	0	33	
0	0	7	0	26	0	0	0	38	
10	<5	<5	0	20	0	0	0	34	
د >	0	11	0	22	0	0	0	36	
4	0	8	0	11	0	0	0	23	
7	1	1	0	13	0	0	0	17	
s	0	8	0	6	0	0	0	20	
c	0	4	0	2	0	0	0	11	
s	٢	7	0	7	0	0	0	18	
L	1	5	0	9	0	0	0	13	
L	0	2	0	9	0	0	0	6	
s	1	0	0	9	0	0	0	10	
0	0	0	0	5	0	0	0	5	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	

All overseas commencements

53	0	79	0	65	0	0	0	197	
40	0	79	0	124	0	8	0	251	
31	0	68	0	146	0	0	0	245	
41	0	54	0	100	0	0	0	195	
27	< 5	39	0	109	0	0	0	178	
29	< 5	44	0	84	< 5	0	0	162	
27	< 5	33	0	82	0	0	0	143	
43	<5	32	0	86	0	0	0	164	
27	<5	59	0	83	0	0	0	173	
23	1	43	0	72	0	0	0	139	
17	3	30	0	99	0	0	0	116	
14	2	51	0	37	0	0	0	104	
15	1	47	0	25	0	0	0	88	
14	2	30	0	38	0	0	0	84	
8	3	26	0	30	0	0	0	67	
8	2	10	0	29	0	0	0	49	
9	2	0	0	26	0	0	0	37	
6	0	0	0	16	0	0	0	22	
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Ass degrees & Adv diplomas	Diplomas	Other undergraduate	Total	Source: Data provided by DET

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

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

Men

2018		18	18 <5	5 5 5 8	8 % % o	85 0 55 55 18	°0 85 0 √5 13	√2 0 82 0 √5 18 √5 0 85 0 √5 18	0 2 0 85 0 25 38
	20	0	<5	0	73	0	<5	0	98
2016	19	<5	<5	0	79	6	0	0	108
2015	18	0	<5	0	71	8	0	0	100
2014	13	< 5	< 5	0	70	< 5	0	0	92
2013	10	< 5	5	0	75	< 5	0	0	94
2012	21	< 5	5	0	104	< 5	0	0	135
2011	14	< 5	< 5	0	92	< 5	0	0	112
2010	13	< 5	5	0	91	< 5	0	0	114
2009	13	3	8	0	27	1	0	0	102
2008	26	1	9	0	23	2	0	0	108
2007	9	0	17	0	77	0	0	0	103
2006	7	1	6	0	98	0	0	0	112
2005	6	2	3	0	82	0	0	0	96
2004	8	2	1	0	124	0	0	0	135
2003	7	2	1	0	112	0	0	0	122
2002	11	2	0	0	87	0	0	0	100
2001	4	0	0	0	102	0	0	0	106
Level	Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total

Women

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

All domestic completions

Doctoral	7	13	6	8	10	6	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	9	21	7	8	7	< 5	9	9	< 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	66	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	9	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.

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

Men

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

Women

ŝ	<5	14	0	25	0	\$2	0	44
1	0	14	0	16	0	<5	0	38
<55	0	6	0	26	0	0	0	35
9	<5	13	0	17	0	0	0	37
c >	0	< 5	0	27	0	0	0	33
c >	0	7	0	19	0	0	0	27
0	0	8	0	14	0	0	0	22
c >	0	11	0	8	0	0	0	22
c >	< 5	15	0	7	0	0	0	26
7	0	10	0	2	0	0	0	14
	0	6	0	4	0	0	0	14
0	1	4	0	0	0	0	0	2
0	٢	9	0	٢	0	0	0	•
-	0	9	0	4	0	0	0	11
0	0	3	0	2	0	0	0	2
D	٢	2	0	0	0	0	0	3
L	1	0	0	0	0	0	0	2
0	0	0	0	٢	0	0	0	-
Doctoral	Research masters	Coursework masters	Other postgraduate	Bachelors	Assoc degrees & Adv diplomas	Diplomas	Other undergraduate	Total

All overseas completions

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



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