



Australian
National
University

Graduate Destination Report 2014

ANU College of Engineering and Computer Science

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ANU College of Engineering and Computer Science

The report was compiled using data from the 2014 Australian Graduate Survey (AGS) which captures information on the destination of ANU College of Engineering and Computer Science graduates at The Australian National University approximately four months after they have completed their program. This report can be used to give an indication of the numerous directions that graduates take after completing their degree. While the AGS obtains information about the start of graduates' career paths, it does not provide information on where they eventually find themselves in terms of life-long professions and objectives. Please note that completion of the AGS is voluntary and the statistics do not represent the entire body of students graduating for that year.

- A total of 116 graduates from the ANU College of Engineering and Computer Science (including combined programs) participated in the survey.
- 72% of undergraduates who were available for full-time work, were working full-time at the time of the survey.
- 69% of students completing postgraduate's coursework, who were available for full-time work, were working full-time at the time of the survey.
- 77% of full-time employed graduates were employed in Australia. Of those employed overseas, the greatest proportions were working in China and the United States of American.
- Within 4 months after graduation, graduates reported being employed in the private sector (52%) versus the public sector (39%).
- 26% of students completing undergraduate programs, were enrolled in further study.
- Of those graduates working full-time, 81% were not seeking a new role, indicating good levels of job satisfaction.
- The average gross annual Australian starting salary for graduates of the college was \$59,353 for undergraduates (n = 19), and \$62,733 for postgraduate coursework (n = 6).
'n' indicates the number of responses.
- Graduates relied on a broad range of methods to locate their employment including internet advertisement (19%) and family or friends (13%).

Further information is available from:

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Introduction

This report was compiled using Australian National University data from the 2014 Australian Graduate Survey (AGS) which captured information on the destination of all 2013 ANU College of Engineering and Computer Science (CECS) graduates approximately four months after completing their program of study. A total of 116 graduates from CECS participated in the survey. The following tables and charts provide more detailed information about the destinations of graduates from CECS.

Table 1: Respondents by level of study to the AGS, 2014

Program Career	Respondents
Undergraduate	73
Postgraduate	27
Higher Degree Research	16
Total	116

Employment Rates

Seventy-six percent of CECS graduates, who were available for full-time employment, were working full-time at the time of the survey. See Table 2 and 2A below:

Table 2: Employment rates of graduates available for full-time employment, 2014 by level of study

Employment Outcome (4 months after graduation)	Undergraduate	Postgraduate	Higher Degree Research	All Study Levels
In Full-time Employment	72%	69%	100%	76%
Seeking Full-time Employment	28%	31%	0%	24%
Total	100%	100%	100%	100%

Table 2A: Full-time employment rates by residency status and level of study, 2014

Residency	Program Career	Full-time Employment	Seeking Full-time Employment	Total
Australian	Undergraduate	75%	25%	100%
	Postgraduate	88%	13%	100%
	Higher Degree Research	100%	0%	100%
Australian Total		80%	20%	100%
Overseas	Undergraduate	64%	36%	100%
	Postgraduate	50%	50%	100%
	Higher Degree Research	100%	0%	100%
Overseas Total		67%	33%	100%
Grand Total		76%	24%	100%

Employment Location

Seventy-seven percent (77%) of full-time employed CECS graduates were employed in Australia (Table 3). For details of countries of employment, see Table 4.

Table 3: Locations of employment, by level of study, 2014

Residency	Program Career	No Details	Australian Employment	Overseas Employment	Total
Australian	Undergraduate	0%	93%	7%	100%
	Postgraduate	0%	100%	0%	100%
	Higher Degree Research	0%	57%	43%	100%
Australian Total		0%	89%	11%	100%
Overseas	Undergraduate	11%	56%	33%	100%
	Postgraduate	0%	75%	25%	100%
	Higher Degree Research	20%	20%	60%	100%
Overseas Total		11%	50%	39%	100%
Grand Total		3%	77%	19%	100%

Table 4: Countries of full-time employment, by level of study, 2014

Residency	Country of Employment	Undergraduate	Postgraduate	Higher Degree Research	Total
Australian	Australia	29	6	4	39
	New Zealand			1	1
	St Vincent and the Grenadines			1	1
	United Kingdom, nfd			1	1
	United States of America	1	1		2
Australian Total		30	7	7	44
Overseas	Australia	7	3	2	12
	China (excludes SARs & Taiwan Province)	2		1	3
	Indonesia			1	1
	Malaysia		1		1
	United Kingdom, nfd			1	1
Overseas Total		9	4	5	18
Grand Total		39	11	12	62

Employment Sectors

Approximately four months after graduation, CECS graduates reported being employed in the private sector at fifty-two percent (52%), followed by the public sector at thirty-nine percent (39%). See Chart 1.

Chart 1: Employment sectors of full-time employed graduates, by level of study, 2014

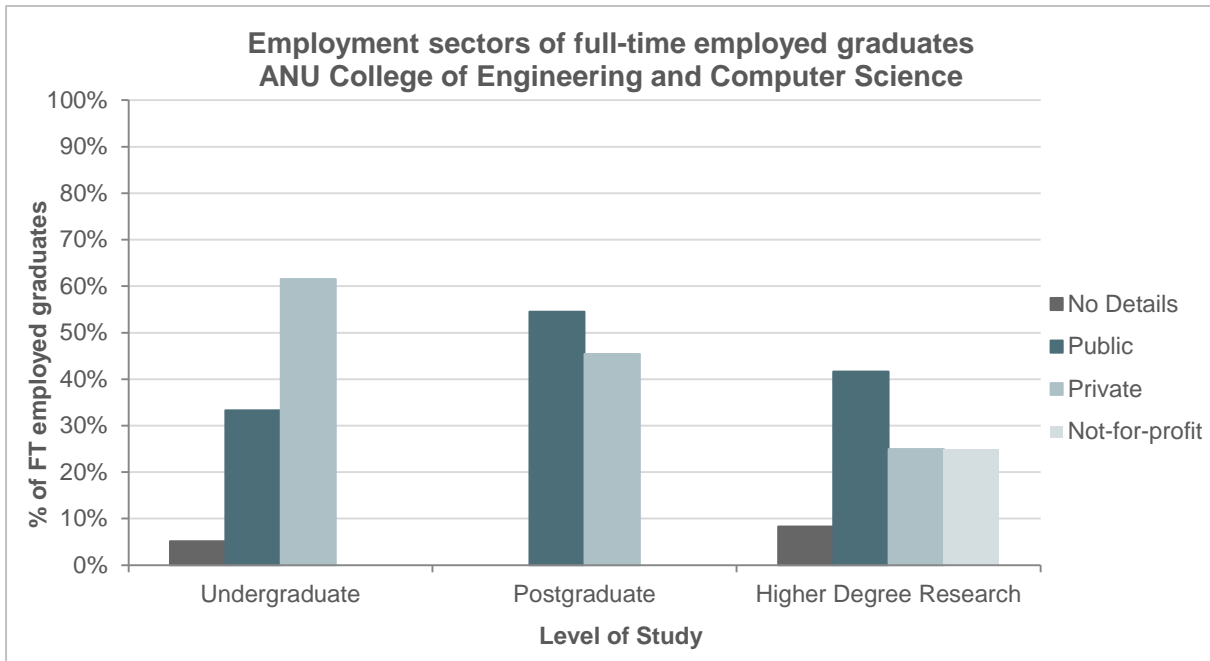


Chart 1a: Employment sectors of full-time employed domestic graduates, by level of study, 2014

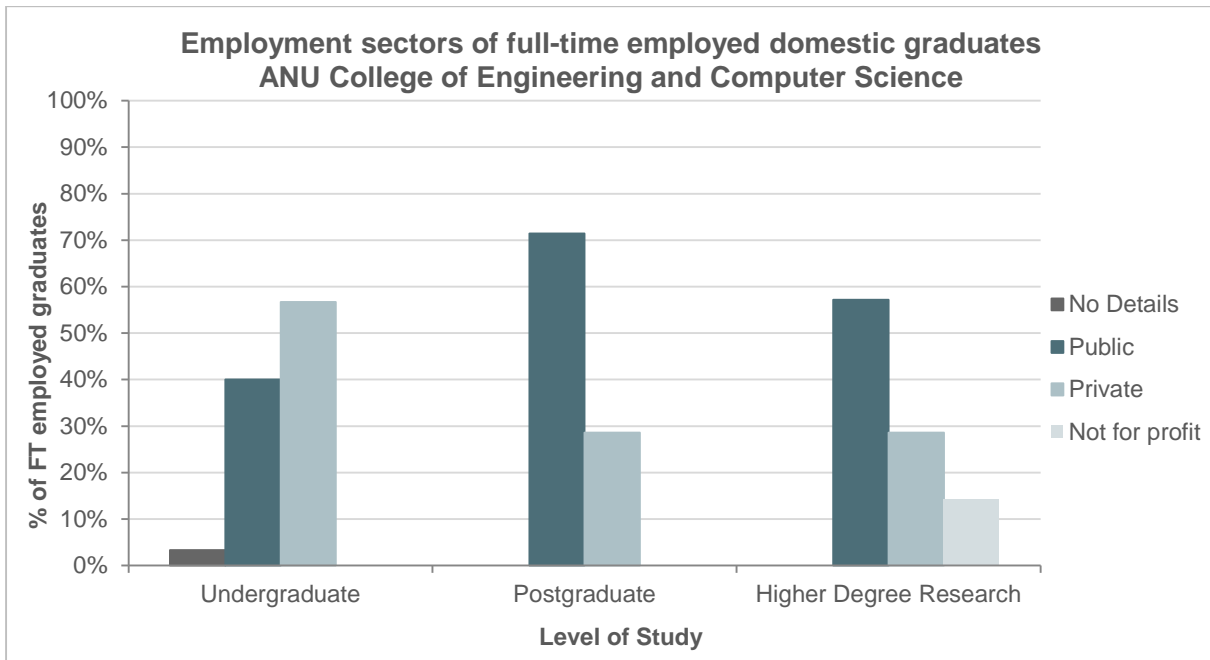
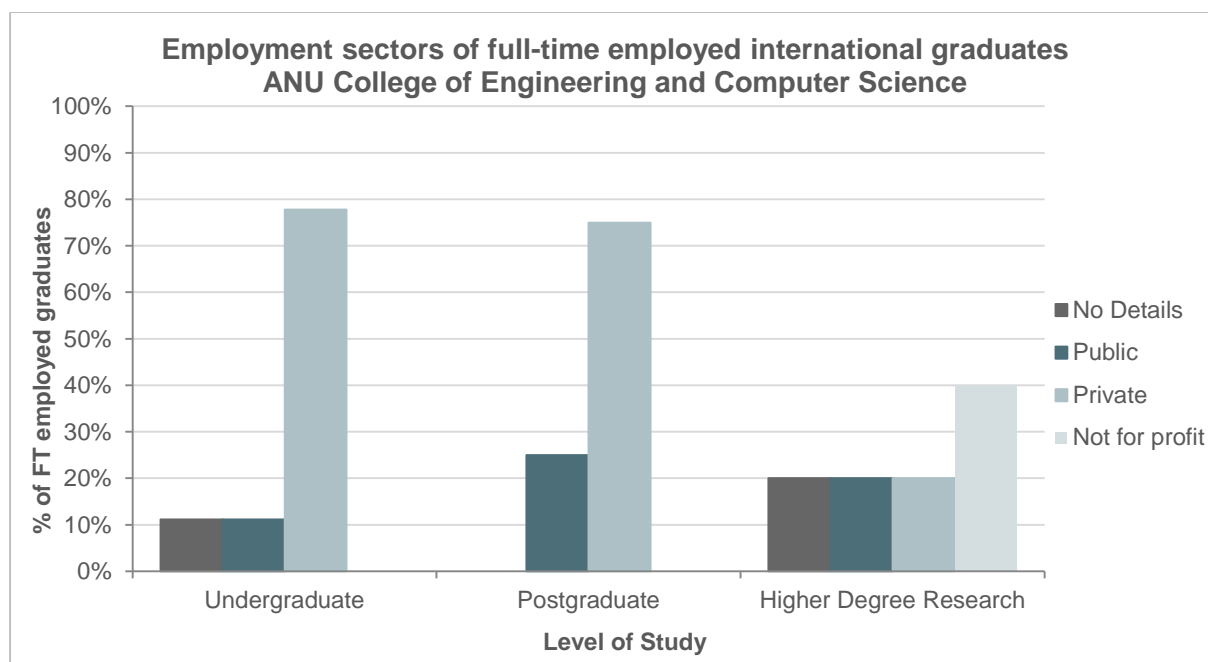


Chart 1b: Employment sectors of full-time employed international graduates, by level of study, 2014



Job Satisfaction

When full-time employed CECS graduates were asked if they were seeking a new job, eighty-one percent (81%) responded they were not, which may indicate good levels of job satisfaction. See Table 5.

Table 5: CECS graduates in full-time employment seeking a new job, 2014

Seeking a new job	Undergraduate	Postgraduate	Higher Degree Research	Total
Yes	15%	27%	8%	16%
No	85%	55%	92%	81%
No Details	0%	18%	0%	3%
Grand Total	100%	100%	100%	100%

Graduate Salaries

Most respondents working full-time in Australia provided their gross salary details. Twenty-nine respondents reported being in their first full-time job, with an average salary of \$59,353 for undergraduates, \$62,733 for postgraduate coursework graduates. Salaries for employment overseas have not been included, as currencies and wage scales are not comparable between countries. See Table 6 following.

Table 6: CECS graduate salaries, full-time employment in Australia, 2014

Job History	Data	Undergraduate	Postgraduate	Higher Degree Research	Total
First Full-time Job	No. of Respondents	19	6	NA	28
	Average Salary	\$59,353	\$62,733	NA	\$62,468
Not First Full-time Job	No. of Respondents	7	NA	NA	13
	Average Salary	\$59,555	NA	NA	\$71,530
Total Respondents		26	10	5	41
Total Average of Salary		\$59,407	\$70,640	\$85,600	\$65,341

Job Search Methods

Nineteen percent of CECS graduates in full-time employment found their current job via internet advertisements (19%). The next most successful job methods were family or friends. See chart 2 and Table 7.

Chart 2: Successful job search methods of CECS graduates, 2014

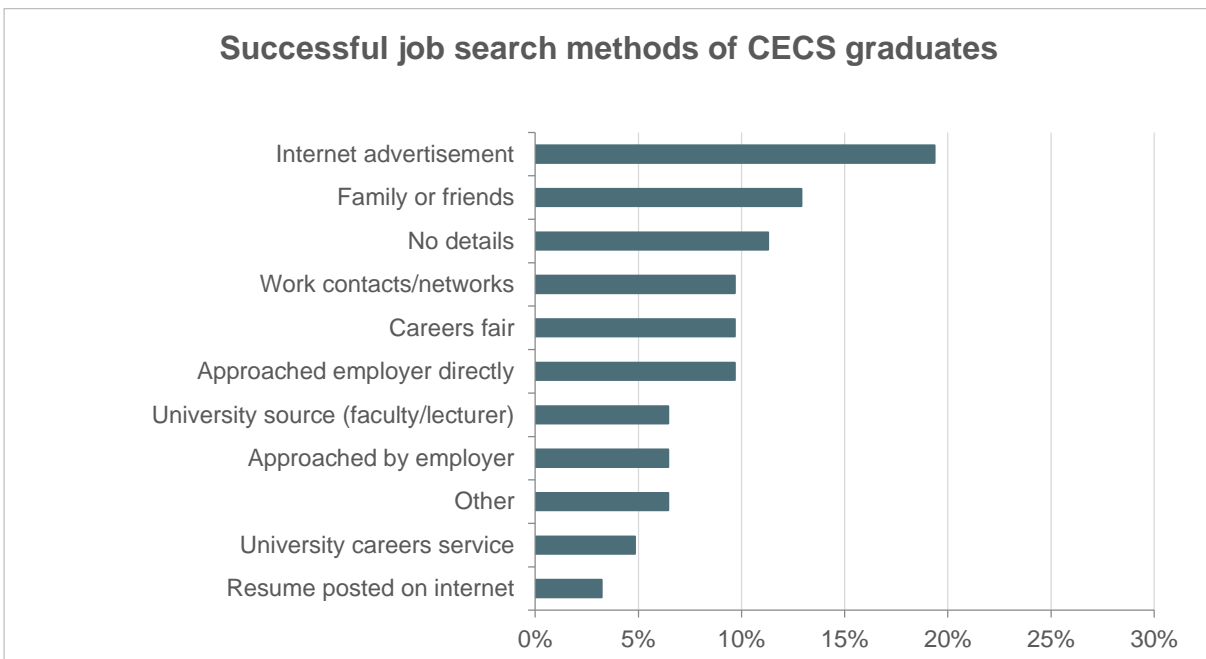


Table 7: Successful job search methods of CECS graduates, 2014

Successful Job Search Methods	Undergraduate	Postgraduate	Higher Degree Research	All study Levels
Internet advertisement	23%	9%	17%	19%
Family or friends	13%	27%	0%	13%
No details	10%	18%	8%	11%
Approached employer directly	5%	9%	25%	10%
Work contacts/networks	8%	9%	17%	10%
Careers fair	13%	9%	0%	10%
University source (faculty/lecturer)	8%	9%	0%	6%
Approached by employer	5%	0%	17%	6%
Other	8%	0%	8%	6%
University careers service	5%	9%	0%	5%
Resume posted on internet	3%	0%	8%	3%
Grand Total	100%	100%	100%	100%

Industries

The top employment industries for CECS full-time employed graduates are indicated in Chart 3 and Table 8 following. Table 8a shows domestic graduates and table 8b shows international graduates top 10 employment industries.

Chart 3: Top five Industries employing CECS graduates, 2014

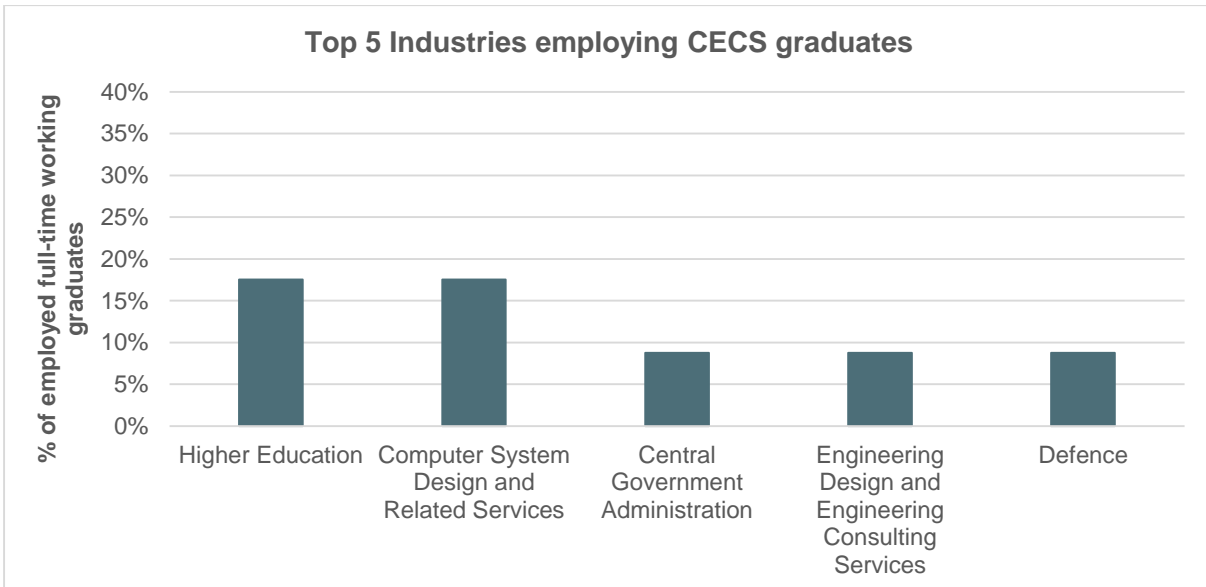


Table 8: Full-time employment industries for CECS graduates, 2014

Industry Description	%
Higher Education	18%
Computer System Design and Related Services	18%
Central Government Administration (i.e. Federal Government)	9%
Engineering Design and Engineering Consulting Services	9%
Defence	9%
Management and Related Consulting Services	7%
Scientific Research Services	5%
Accounting Services	4%
Auxiliary Finance and Investment Services	2%
Electricity Generation	2%
Telecommunications Services	2%
Computer and Electronic Equipment Manufacturing	2%
Other Professional, Scientific and Technical Services	2%
Scientific Testing and Analysis Services	2%
Health and General Insurance	2%
State Government Administration	2%
Technical and Vocational Education and Training	2%
Market Research and Statistical Services	2%
Water Supply, Sewerage and Drainage Services	2%
Other Machinery and Equipment Manufacturing	2%
Other Manufacturing	2%

Table 8a: Top 10 full-time employment industries for CECS domestic graduates, 2014

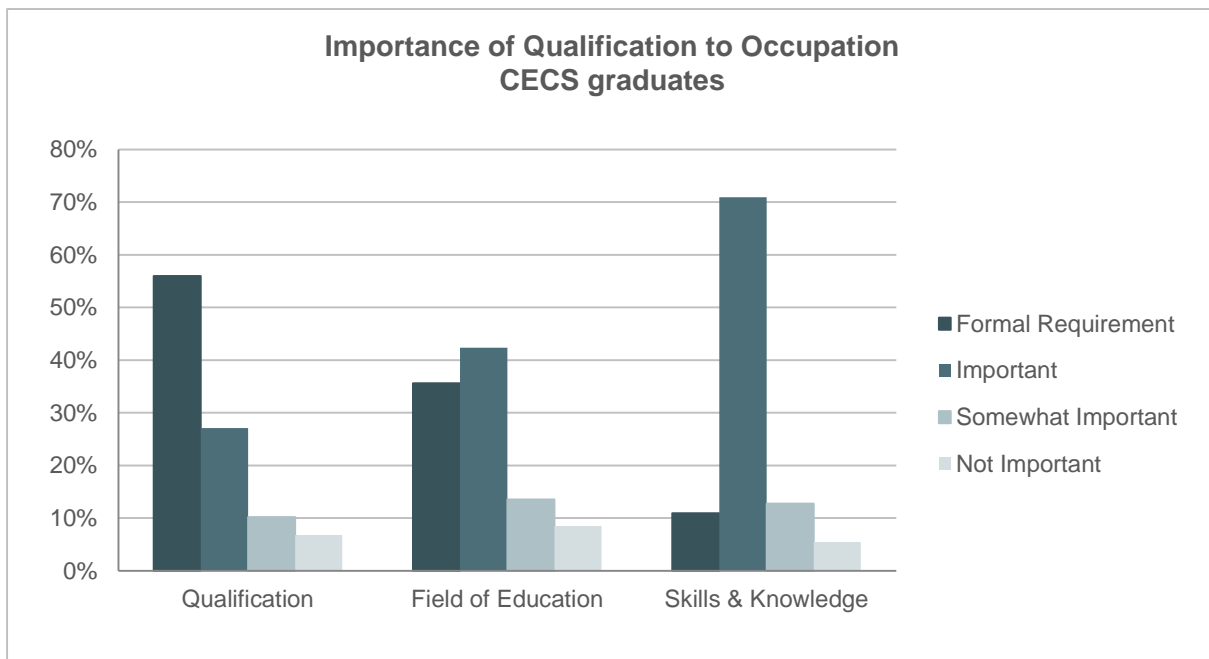
Industry Description	Total
Computer System Design and Related Services	17%
Defence	12%
Central Government Administration (i.e. Federal Government)	12%
Higher Education	12%
Management and Related Consulting Services	10%
Engineering Design and Engineering Consulting Services	7%
Scientific Research Services	5%
Accounting Services	5%
Other Manufacturing	2%
Other Machinery and Equipment Manufacturing	2%

Table 8b: Full-time employment industries for CECS international graduates, 2014

Industry Description	Total
Higher Education	31%
Computer System Design and Related Services	19%
Engineering Design and Engineering Consulting Services	13%
Scientific Research Services	6%
Other Professional, Scientific and Technical Services	6%
Health and General Insurance	6%
Scientific Testing and Analysis Services	6%
Telecommunications Services	6%
Auxiliary Finance and Investment Services	6%

The chart below indicates the importance CECS graduates thought of their qualification once in full-time employment. Eighty-three percent (83%) of graduates thought their qualification was either important or a formal requirement or their employment.

Chart 4: Importance of qualification, field and skills in full-time employment, 2014



Employers

In Table 9 are the employers of CECS graduates by level of study, compiled from the 2014 survey.

Table 9: Main Employers of CECS full-time employed graduates, 2014

Program Career	Employer
Undergraduate	Accenture
	Australian Defence
Postgraduate	The Australian National University
	Australian Defence

Many ANU graduates complete combined degrees; hence the wide range of first listed majors, that may or may not be associated with this college. To preserve anonymity of individuals some majors with limited employers have been aggregated to the Other category.

Table 10: Full-time employers by first major (field of education); listed by each graduate on their returned survey, for CECS graduates, 2014

First Major	Employer
Computer Science	Agileware Pty Ltd
	Australian Bureau of Statistics
	Australian Customs and Border Protection Service
	Australian Defence
	Australian Electoral Commission
	Australian National Audit Office
	Compuware Asia Pacific
	Connexion Pty Ltd
	Data Warehousing Services Australia
	Diversity Arrays Technology
	Hewlett Packard
	Imperial College London
	NICTA
	Orion Health
	Reading Room
	Suncorp
	The Australian National University
	Uni of Auckland
	University of Adelaide
	University of Indonesia
Veritec Pty Ltd	
Electrical And Electronic Engineering And Technology	Accenture
	Australian Defence
	Pricewaterhouse Coopers
	Shandong Computer Science Centre
	University of New South Wales Canberra
	Vega Project Pte Ltd
Engineering And Related Technologies	2XE Pty Ltd
	ABB (Asea Brown Boveri)
	Accenture

First Major	Employer
Information Systems	ASI
	Australian Defence
	Canberra Institute of Technology
	Ernst & Young
	Exergy Australia Pty Ltd
	Kord Defence Pty Ltd
	MacDonald Johnston
	Overseas employer
	Royal Australian Mint
	Samsung Electronics
	University of Cambridge
	BellePlatinumStamen
	Department of Human Services
	KPMG
	National Computational Infrastructure (NCI)
The Australian National University	
Manufacturing Engineering And Technology	University Malaysia Sarawak
	Actew Corporation
	Department of Infrastructure and Regional Development
	GHD
	IBM
Other, including: -Chemical Sciences -Philosophy And Religious Studies -Political Science And Policy Studies	Seeing Machines
	Atlassian
	ACT Government
	Vast Solar

Table 11a: Full-time occupations of CECS domestic graduates, by field of education (First Major listed by each graduate on their returned survey), 2014

First Major	Occupation	
Chemical Sciences	Graduate Developer	
Computer Science	Web Developer, Project Manager	
	Applications Management Services Delivery Consultant	
	Computational Scientist	
	Executive Officer to Pro Vice-Chancellor (IA)	
	Guardian Delivery Consultant	
	IT Auditor	
	Junior Business Systems Consultant	
	Senior Research Engineer	
	Software developer	
	Software Engineer	
	Supervisor Sourcing and Vendor Management	
	Electrical And Electronic Engineering And	Aerospace Engineering Officer

First Major	Occupation
Technology	Analyst Consultant Engineering Manager Research associate (postdoc)
Engineering And Related Technologies	Analyst Automation Engineer Consultant Curriculum Development Officer Graduate Design Engineer Graduate Engineer IT Consultant Mechanical Engineer Project Engineer Research Associate Senior Lecture Senior Systems Engineer Software Engineer
Information Systems	Business analyst Consultant Digital Learning Assistant IT Administrator
Manufacturing Engineering And Technology	Hardware Engineer Software Engineer Systems Maintenance Engineer Team Member
Philosophy And Religious Studies	Sustainability Engineer
Political Science And Policy Studies	Graduate Engineer

Many ANU graduates complete combined degrees, hence the wide range of first listed majors, that may or may not be associated with this college.

Table 11b: Full-time occupations of CECS international graduates, by field of education (First Major listed by each graduate on their returned survey), 2014

First Major	Occupation
Computer Science	Analyst programmer Fellow Research Assistant Research fellow Software Engineer Software Tester Technical Developer University Lecturer

Electrical And Electronic Engineering And Technology	Video Engineer
Engineering And Related Technologies	Visiting Student/Researcher
Information Systems	Graduate Consultant
Manufacturing Engineering And Technology	Research Engineer
	Market analysts
	Research Assistant
	Project manager

Further Study

Twenty-six percent (26%) of CECS undergraduates have continued with either further full-time or part-time study. See Table 12, 12A and 13.

Table 12: Further study of undergraduate diploma and bachelor degree graduates, 2014

Further Study Activities	Undergraduate	Postgraduate	Higher Degree Research
Further Full-time Study	20%	19%	0%
Further Part-time Study	6%	4%	6%
Not in Study/No Details	75%	77%	94%
Grand Total	100%	100%	100%

Table 12A: Further study activities by residency status and level of completed study, 2014

Residency Status	Level of Completed Study	Further Full-time Study	Further Part-time Study	Not in Study/No Details	Total
Australian	Undergraduate	10%	8%	81%	100%
	Postgraduate	10%	10%	80%	100%
	Higher Degree Research	0%	13%	88%	100%
Australian Total		9%	9%	82%	100%
Overseas	Undergraduate	39%	0%	61%	100%
	Postgraduate	25%	0%	75%	100%
	Higher Degree Research	0%	0%	100%	100%
Overseas Total		28%	0%	72%	100%
Grand Total		17%	5%	78%	100%

Table 13: Further full-time study levels, 2014

Further Study Activities	Further Study Level	Undergraduate	Postgraduate	Higher Degree Research	Total
In further full-time study	Undergraduate	3%	0%	0%	2%
	Postgraduate	11%	15%	0%	11%
	Higher Degree Research	6%	4%	0%	4%
In further full-time study Total		20%	19%	0%	17%
In further part-time study		6%	4%	6%	5%
Not in Study/No Details		75%	77%	94%	78%
Grand Total		100%	100%	100%	100%

For further information about CECS graduate outcomes, please contact Bo Liu on (02) 6125 0728 or email Bo.Liu@anu.edu.au