



Australian
National
University

Graduate Destination Report 2015

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 2015 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 127 graduates from the ANU College of Engineering and Computer Science (including combined programs) participated in the survey.
- 76% of undergraduates who were available for full-time work, were working full-time at the time of the survey.
- 56% of students completing postgraduate's coursework, who were available for full-time work, were working full-time at the time of the survey.
- 81% of full-time employed graduates were employed in Australia. Of those employed overseas, the greatest proportions were working in the United Kingdom and Singapore.
- Within 4 months after graduation, graduates reported being employed in the private sector (69%) versus the public sector (28%).
- Of those graduates working full-time, 73% 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 \$60,187 for undergraduates (n = 17).
'n' indicates the number of responses.
- Graduates relied on a broad range of methods to locate their employment including internet advertisement (34%) and family or friends (16%).
- 10% of students completing undergraduate programs, were enrolled in further full-time study.

Further information is available from:

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Introduction

This report was compiled using Australian National University data from the 2015 Australian Graduate Survey (AGS) which captured information on the destination of all 2014 ANU College of Engineering and Computer Science (CECS) graduates approximately four months after completing their program of study.

A total of 127 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, 2015

| Program Career | Respondents |
|------------------------|-------------|
| Undergraduate | 91 |
| Postgraduate | 18 |
| Higher Degree Research | 18 |
| Total | 127 |

Employment Rates

Seventy-six percent (76%) 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, 2015 by level of study

| Employment Outcome (4 months after graduation) | Undergraduate | Postgraduate | Higher Degree Research | All Study Levels |
|---|---------------|--------------|------------------------|------------------|
| In Full-time Employment | 76% | 56% | 87% | 76% |
| Seeking Full-time Employment | 24% | 44% | 13% | 24% |
| Total | 100% | 100% | 100% | 100% |

Table 2A: Full-time employment rates by residency status and level of study, 2015

| Residency | Program Career | Full-time Employment | Seeking Full-time Employment | Total |
|-------------------------|------------------------|----------------------|------------------------------|-------------|
| Australian | Undergraduate | 82% | 18% | 100% |
| | Postgraduate | 63% | 38% | 100% |
| | Higher Degree Research | 100% | 0% | 100% |
| Australian Total | | 82% | 18% | 100% |
| Overseas | Undergraduate | 56% | 44% | 100% |
| | Postgraduate | 0% | 100% | 100% |
| | Higher Degree Research | 75% | 25% | 100% |
| Overseas Total | | 59% | 41% | 100% |
| Grand Total | | 76% | 24% | 100% |

Employment Location

Eighty-one percent (81%) 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, 2015

| Residency | Program Career | No Details | Australian Employment | Overseas Employment | Total |
|--------------------|-------------------------|------------|-----------------------|---------------------|-------------|
| Australian | Undergraduate | 2% | 98% | 0% | 100% |
| | Postgraduate Coursework | 0% | 100% | 0% | 100% |
| | Higher Degree Research | 0% | 71% | 29% | 100% |
| Australian Total | | 2% | 95% | 3% | 100% |
| Overseas | Undergraduate | 0% | 40% | 60% | 100% |
| | Higher Degree Research | 0% | 17% | 83% | 100% |
| Overseas Total | | 0% | 31% | 69% | 100% |
| Grand Total | | 1% | 81% | 17% | 100% |

Table 4: Countries of full-time employment, by level of study, 2015

| Residency | Country of Employment | Undergraduate | Postgraduate | Higher Degree Research | Total |
|--------------------|---|---------------|--------------|------------------------|-----------|
| Australian | Australia | 47 | 5 | 5 | 57 |
| | Germany | | | 1 | 1 |
| | United Kingdom, nfd | | | 1 | 1 |
| Australian Total | | 47 | 5 | 7 | 59 |
| Overseas | Australia | 4 | | 1 | 5 |
| | China (excludes SARs and Taiwan Province) | 1 | | 1 | 2 |
| | Korea, Republic of (South) | 2 | | | 2 |
| | Singapore | 3 | | 1 | 4 |
| | United Kingdom, nfd | | | 3 | 3 |
| Overseas Total | | 10 | | 6 | 16 |
| Grand Total | | 57 | 5 | 13 | 75 |

Employment Sectors

Approximately four months after graduation, CECS graduates reported being employed in the private sector at sixty-nine percent (69%), followed by the public sector at twenty-eight percent (28%). See Chart 1.

Chart 1: Employment sectors of full-time employed graduates, by level of study, 2015

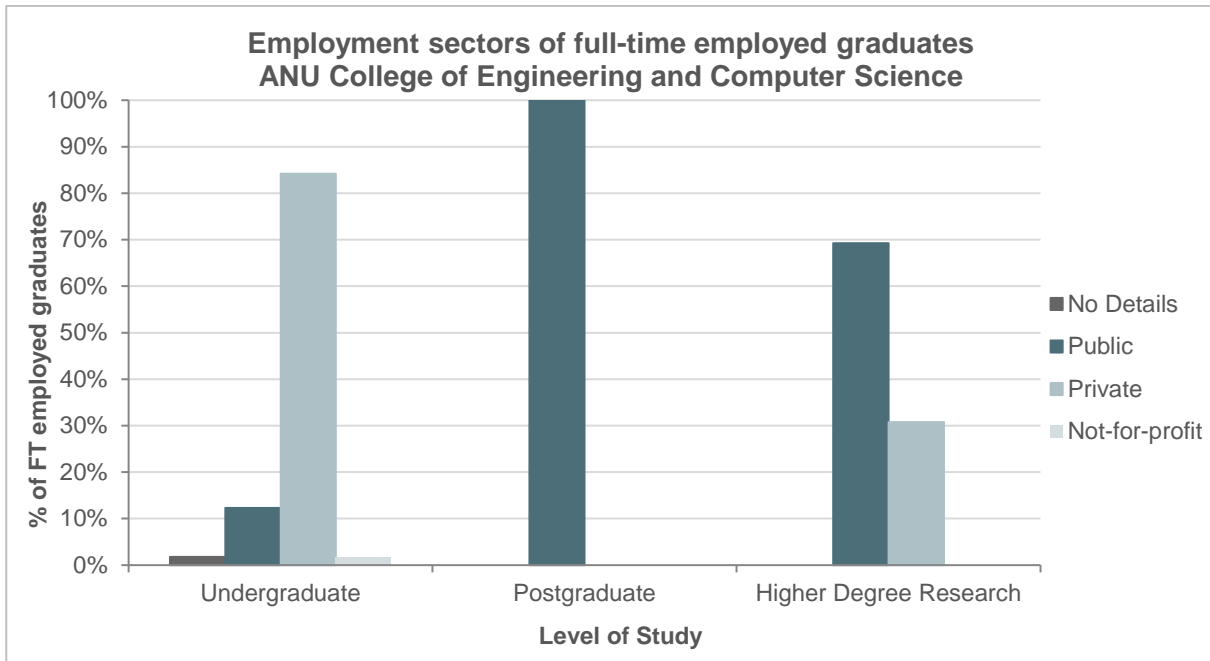


Chart 1a: Employment sectors of full-time employed domestic graduates, by level of study, 2015

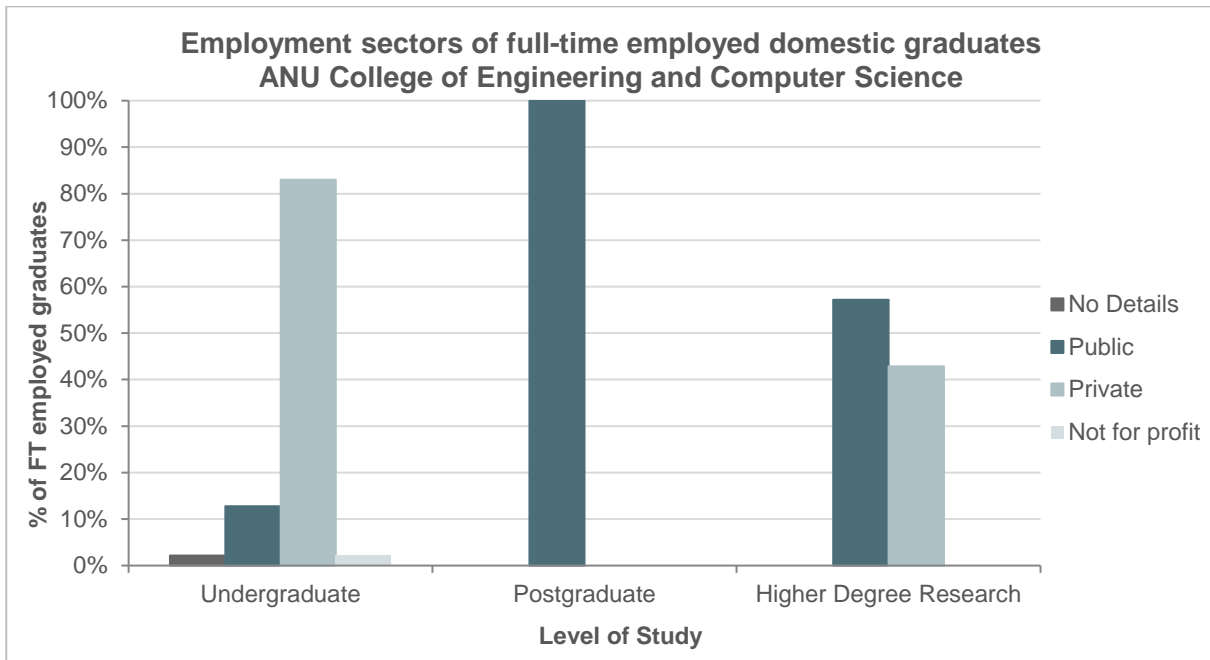
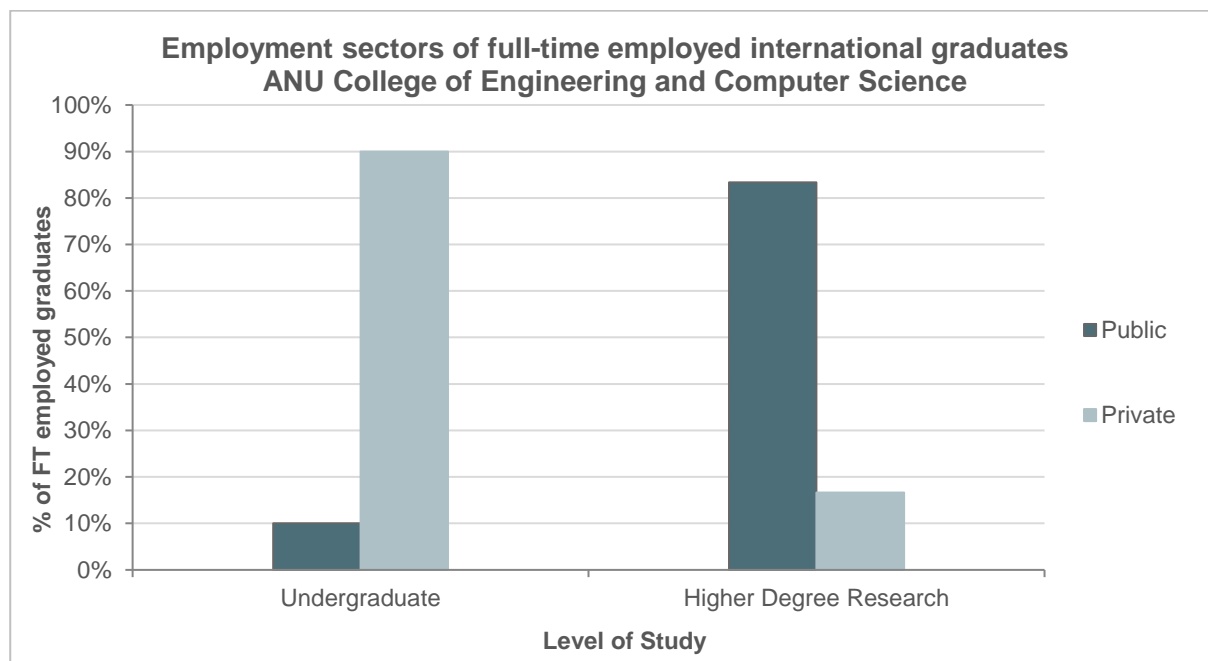


Chart 1b: Employment sectors of full-time employed international graduates, by level of study, 2015



Job Satisfaction

When full-time employed CECS graduates were asked if they were seeking a new job, seventy-three percent (73%) 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, 2015

| Seeking a new job | Undergraduate | Postgraduate | Higher Degree Research | Total |
|--------------------|---------------|--------------|------------------------|-------------|
| Yes | 26% | 40% | 23% | 27% |
| No | 74% | 60% | 77% | 73% |
| Grand Total | 100% | 100% | 100% | 100% |

Graduate Salaries

Respondents working full-time in Australia were asked to provide their gross salary details. Eighteen (18) respondents reported being in their first full-time job, with an average salary of \$60,187 for undergraduates (n=17). 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, 2015

| Job History | Data | Undergraduate | Postgraduate | Higher Degree Research | Total |
|--------------------------------|--------------------|-----------------|--------------|------------------------|-----------------|
| First Full-time Job | No. of Respondents | 17 | NA | NA | 18 |
| | Average Salary | \$60,187 | NA | NA | \$59,788 |
| Not First Full-time Job | No. of Respondents | 7 | NA | NA | 14 |
| | Average Salary | \$55,000 | NA | NA | \$78,785 |
| Total Respondents | | 24 | NA | 5 | 32 |
| Total Average of Salary | | \$58,674 | NA | \$94,797 | \$68,099 |

Job Search Methods

Thirty-four percent of CECS graduates in full-time employment found their current job via internet advertisements (34%). 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, 2015

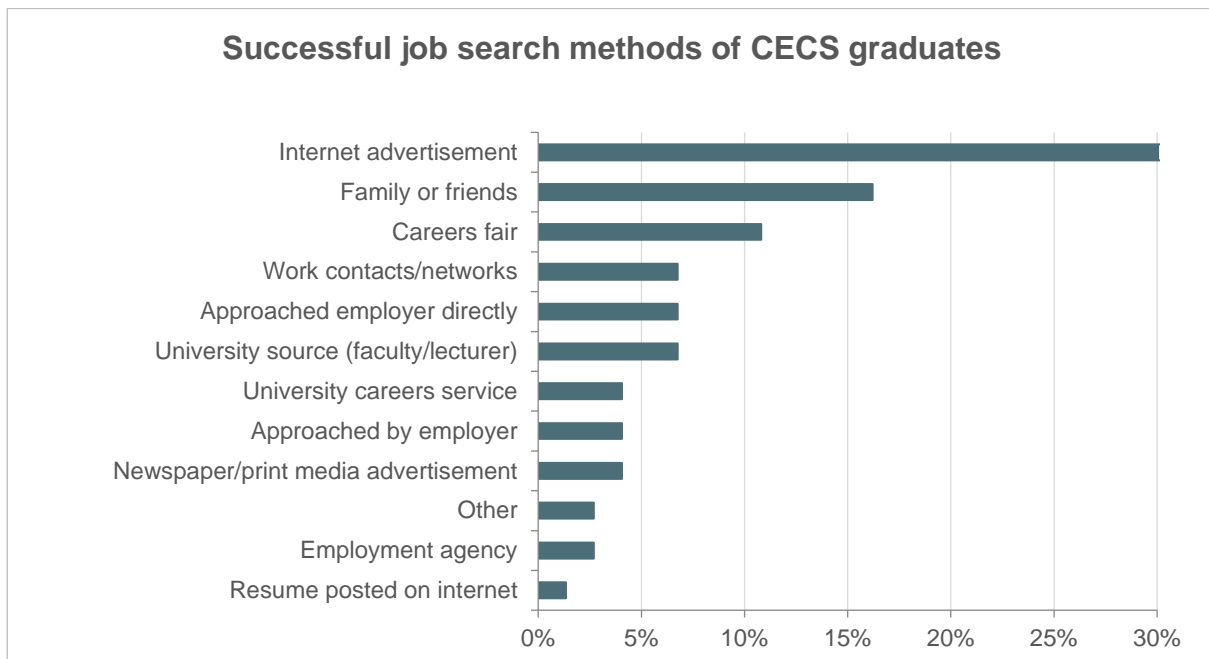


Table 7: Successful job search methods of CECS graduates, 2015

| Successful Job Search Methods | Undergraduate | Postgraduate | Higher Degree Research | All study Levels |
|--------------------------------------|---------------|--------------|------------------------|------------------|
| Internet advertisement | 32% | 40% | 38% | 34% |
| Family or friends | 20% | 0% | 8% | 16% |
| Careers fair | 14% | 0% | 0% | 11% |
| Work contacts/networks | 5% | 0% | 15% | 7% |
| Approached employer directly | 7% | 0% | 8% | 7% |
| University source (faculty/lecturer) | 5% | 0% | 15% | 7% |
| Approached by employer | 2% | 0% | 15% | 4% |
| Newspaper/print media advertisement | 4% | 20% | 0% | 4% |
| University careers service | 5% | 0% | 0% | 4% |
| Other | 4% | 0% | 0% | 3% |
| Employment agency | 0% | 40% | 0% | 3% |
| Resume posted on internet | 2% | 0% | 0% | 1% |
| 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 employment industries.

Chart 3: Top five Industries employing CECS graduates, 2015

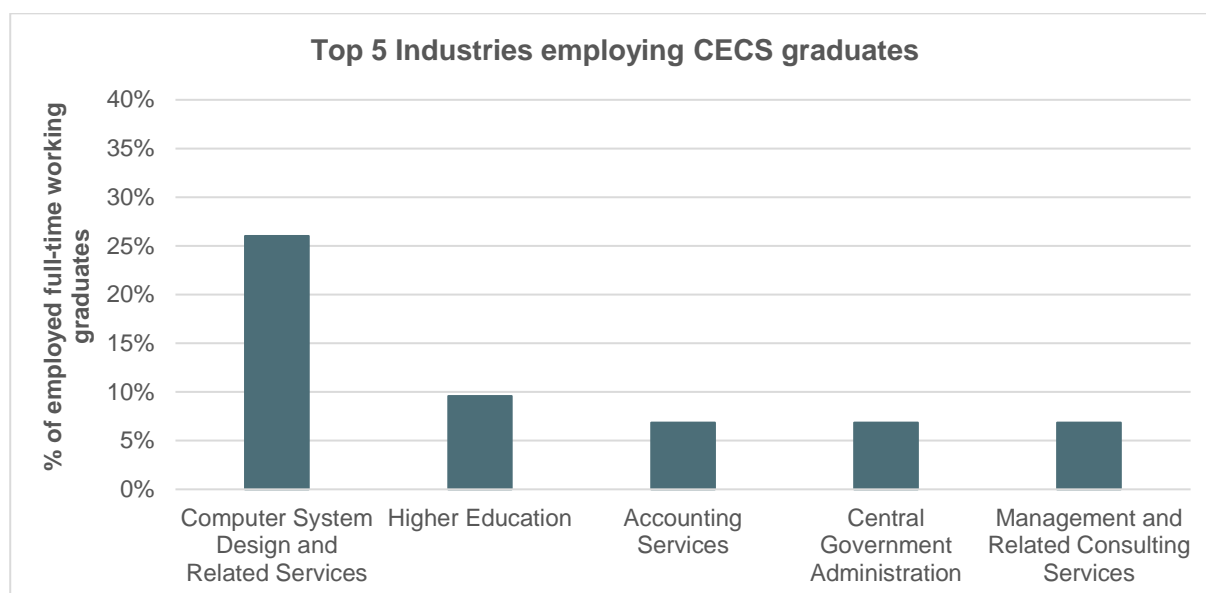


Table 8: Full-time employment industries for CECS graduates, 2015

| Industry Description | % |
|--|-----|
| Computer System Design and Related Services | 26% |
| Higher Education | 10% |
| Accounting Services | 7% |
| Central Government Administration (i.e. Federal Government) | 7% |
| Management and Related Consulting Services | 7% |
| Engineering Design and Engineering Consulting Services | 5% |
| Scientific Research Services | 5% |
| On Selling Electricity and Electricity Market Operation | 4% |
| Depository Financial Intermediation | 1% |
| Preschool and School Education | 1% |
| Other Transport Equipment Manufacturing | 1% |
| Heavy and Civil Engineering Construction | 1% |
| Recreational Goods Retailing | 1% |
| Adult, Community and Other Education | 1% |
| Specialised Industrial Machinery and Equipment Wholesaling | 1% |
| Hospitals | 1% |
| Pharmaceutical and Other Store-Based Retailing | 1% |
| Sugar and Confectionery Manufacturing | 1% |
| Public Administration | 1% |
| Telecommunications Services | 1% |
| Regulatory Services | 1% |
| Computer and Electronic Equipment Manufacturing | 1% |
| Sheet Metal Product Manufacturing (except Metal Structural and Container Products) | 1% |
| Building Installation Services | 1% |
| Defence | 1% |
| Other Professional, Scientific and Technical Services | 1% |
| Television Broadcasting | 1% |
| Metal Ore Mining | 1% |
| Oil and Gas Extraction | 1% |

Table 8a: Top 10 full-time employment industries for CECS domestic graduates, 2015

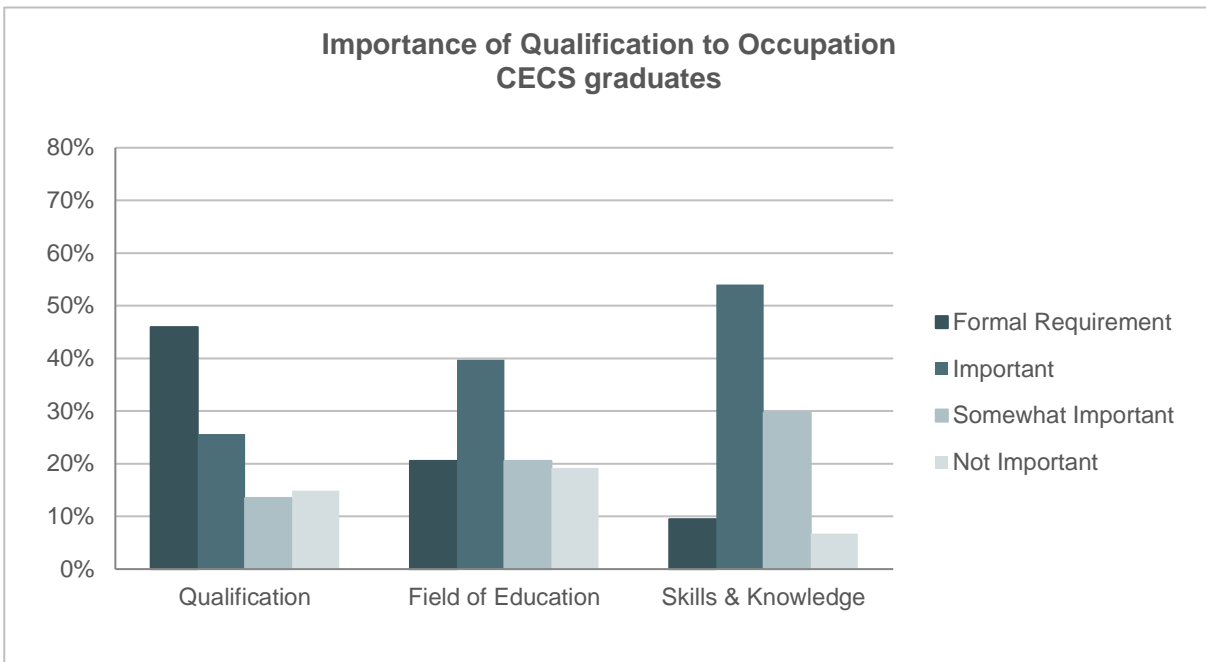
| Industry Description | Total |
|---|-------|
| Computer System Design and Related Services | 26% |
| Central Government Administration (i.e. Federal Government) | 9% |
| Engineering Design and Engineering Consulting Services | 7% |
| On Selling Electricity and Electricity Market Operation | 5% |
| Accounting Services | 5% |
| Higher Education | 5% |
| Management and Related Consulting Services | 5% |
| Regulatory Services | 2% |
| Pharmaceutical and Other Store-Based Retailing | 2% |
| Depository Financial Intermediation | 2% |

Table 8b: Full-time employment industries for CECS international graduates, 2015

| Industry Description | Total |
|--|-------|
| Computer System Design and Related Services | 25% |
| Higher Education | 25% |
| Scientific Research Services | 19% |
| Accounting Services | 13% |
| Management and Related Consulting Services | 13% |
| Specialised Industrial Machinery and Equipment Wholesaling | 6% |

The chart below indicates the importance CECS graduates thought of their qualification once in full-time employment. Seventy-two percent (72%) 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, 2015



Employers

In Table 9 are the employers of CECS graduates by level of study, compiled from the 2015 survey.

Table 9: Main Employers of CECS full-time employed graduates, 2015

| Program Career | Employer |
|-------------------------------|-------------------------------------|
| Undergraduate | Orion Health |
| | Accenture Australia |
| | Australian Energy Market Commission |
| | KPMG |
| | Price Waterhouse Coopers |
| | IBM Australia Ltd |
| | Hewlett Packard Australia |
| Higher Degree Research | ANU |

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, 2015

| First Major | Employer |
|----------------------|--|
| Accounting | Deloitte |
| | Group 10 Consulting |
| | Moore Stephens Canberra |
| | Price Waterhouse Coopers |
| | |
| Computer Science | Accenture Australia |
| | Agency for Science, Technology and Research |
| | ANU |
| | Australian Research Council |
| | Chinese Academy of Sciences |
| | Commonwealth Bank of Australia |
| | Dept. of Defence |
| | Dept. of Industry |
| | DFAT |
| | Google Australia Pty Ltd |
| | Hewlett Packard Australia |
| | Namadgi Systems |
| | NICTA |
| | Odecee |
| | Orion Health |
| | |
| | Electrical And Electronic Engineering And Technology |
| Dept. of Agriculture | |
| Hwakyong Indus | |

| First Major | Employer |
|--|--|
| | IT Power |
| | Port Jackson Partners |
| | SMS Management and Technology |
| | Spectrum Engineering |
| | University of Oxford |
| | University of Surrey |
| Engineering And Related Technologies | BHP Billiton |
| | Calibre Consulting |
| | Clean Energy Regulator |
| | Hewlett Packard Australia |
| | NICTA |
| | Precision Metals |
| | Rockwell Collins Australia |
| | Uni Melbourne |
| | University College London |
| | University of Birmingham |
| Information Systems | ACT Health |
| | Delv Pty. Ltd. |
| | Dept. of Education |
| | Geospatial Intelligence |
| | Hewlett Packard Australia |
| | KPMG |
| | St Electronics (Info-software Systems) Pty Ltd |
| Manufacturing Engineering And Technology | Accenture Australia |
| | KPMG |
| | Lockheed Martin Australia |
| | Orion Health |
| | Seeing Machines Ltd |
| Mechanical And Industrial Engineering And Technology | Accenture Australia |
| | AECOM |
| | Cycle City |
| | Energy Action |
| | IBM Australia Ltd |
| | Mars incorporated |
| | Power Saving Centre Canberra |
| Other Engineering And Related Technologies | Australian Energy Market Commission |
| | Vodafone Hutchinson Australia |
| | Price Waterhouse Coopers |
| Other, including: | ANU |
| -Banking, Finance And Related Fields | Australian Energy Market Commission |
| -Information Technology | Cyram |
| -Law | Federal Government |
| -Physics And Astronomy | IBM Australia Ltd |
| -Political Science And Policy Studies | |

Table 11a: Full-time occupations of CECS domestic graduates, by field of education (First Major listed by each graduate on their returned survey), 2015

| First Major | Occupation |
|--|--|
| Accounting | Accountant Analyst Consultant |
| Banking, Finance And Related Fields | Consultant |
| Computer Science | Applications Developer Architect Data Analyst Developer Graduate Officer Product Manager Researcher Senior Software Engineer Software Developer Software Engineer |
| Electrical And Electronic Engineering And Technology | Consultant Permit Officer Project Engineer Research Fellow |
| Engineering And Related Technologies | Design Engineer Graduate Mechatronics Engineer Regulatory Officer Research Fellow Superintendent'S Representative Systems Engineer Technical Consultant Web Developer |
| Information Systems | I.T. Consultant ICT Manager IT Personnel Software Developer System Support |
| Information Technology | Technical Analyst |
| Manufacturing Engineering And Technology | Graduate Software Engineer Hardware Engineer Software Engineer |
| Mechanical And Industrial Engineering And Technology | Bicycle Mechanic Engineer Infrastructure Analyst IT Consultant Solar Engineer |
| Other Engineering And Related Technologies | Pharmacy Assistant |
| Physics And Astronomy | Research Fellow |

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), 2015

| First Major | Occupation |
|--|--|
| Computer Science | Postdoctoral Research Fellow Research Assistant Software Engineer |
| Electrical And Electronic Engineering And Technology | Business Analyst Electronic Engineer Postdoctoral Research Fellow Store Manager |
| Engineering And Related Technologies | Internship Visitor Research Fellow Teaching Fellow |
| Information Systems | Adviser Software Engineer |
| Law | Software Engineer |
| Manufacturing Engineering And Technology | Consultant |

Further Study

Ten percent (10%) of CECS undergraduates have continued with further full-time study. See Table 12, 12A and 13.

Table 12: Further study of undergraduate diploma and bachelor degree graduates, 2015

| Further Study Activities | Level of Completed Study | | |
|--------------------------|--------------------------|--------------|------------------------|
| | Undergraduate | Postgraduate | Higher Degree Research |
| Further Full-time Study | 10% | 17% | 6% |
| Further Part-time Study | 2% | 6% | 0% |
| Not in Study/No Details | 88% | 78% | 94% |
| Grand Total | 100% | 100% | 100% |

Table 12A: Further study activities by residency status and level of completed study, 2015

| Residency Status | Level of Completed Study | Further Full-time Study | Further Part-time Study | Not in Study/No Details | Total |
|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------|
| Australian | Undergraduate | 5% | 3% | 92% | 100% |
| | Postgraduate | 0% | 13% | 88% | 100% |
| | Higher Degree Research | 11% | 0% | 89% | 100% |
| Australian Total | | 5% | 4% | 91% | 100% |
| Overseas | Undergraduate | 23% | 0% | 77% | 100% |
| | Postgraduate | 30% | 0% | 70% | 100% |
| | Higher Degree Research | 0% | 0% | 100% | 100% |
| Overseas Total | | 20% | 0% | 80% | 100% |
| Grand Total | | 10% | 2% | 87% | 100% |

Table 13: Further full-time study levels, 2015

| Further Study Activities | Further Study Level | Level of Completed Study | | | Total |
|---|------------------------|--------------------------|--------------|------------------------|-------------|
| | | Undergraduate | Postgraduate | Higher Degree Research | |
| In further full-time study | Undergraduate | 2% | 0% | 0% | 2% |
| | Postgraduate | 3% | 17% | 0% | 5% |
| | Higher Degree Research | 4% | 0% | 6% | 4% |
| In further full-time study Total | | 10% | 17% | 6% | 10% |
| In further part-time study | | 2% | 6% | 0% | 2% |
| Not in Study/No Details | | 88% | 78% | 94% | 87% |
| 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