



Electrical Engineer

ANZSCO 2333-11

Victoria
April 2019

Current labour market rating: No shortage

All of the successfully filled vacancies received multiple suitable applicants. Unfilled vacancies were for senior positions with applicant inexperience the most common reason for unsuitability.

Key research findings

- Sixty three per cent of electrical engineer vacancies were filled from an average of 21.8 qualified and 2.8 suitable applicants per vacancy.
- Junior positions attracted a high number of suitable candidates.
 - Restricting the sample to non-junior positions resulted in a 64 per cent fill rate from 11 qualified and 1.4 suitable applicants per vacancy.
- Almost all successfully filled vacancies received multiple suitable applicants.
- Renewable energy sector vacancies had both a higher fill rate and higher average of suitable applicants per vacancy than the overall result.
- Unfilled vacancies were sourced from several sectors; most numerous were vacancies for intermediate and senior positions in the building services sector.
 - Applicant unsuitability was attributed to insufficient experience specific to the position.

Demand and supply

- Online advertisements for electrical engineers increased by 11.3 per cent over the year to March 2019 and by an annual average rate of 15.3 per cent over five years to March 2019.
- There were 266 people completing the electrical engineering bachelor degree in 2017 compared to an annual average of 235 in the period from 2012.
- Large infrastructure projects were announced over the last year.
 - The underlying driver for projects in Victoria is a very high population growth rate that has averaged almost 2.3 per cent per annum since 2013-14.

2019 Survey Results¹

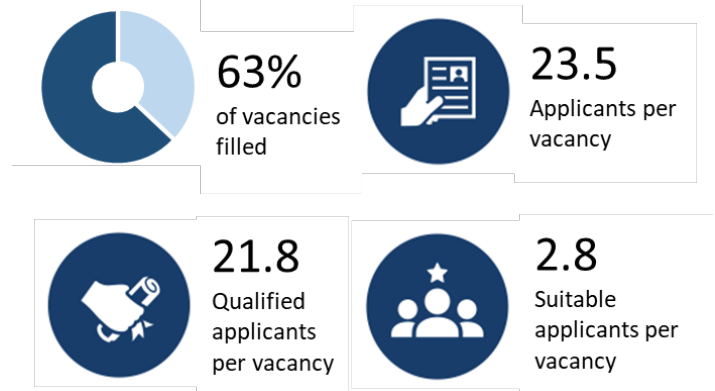
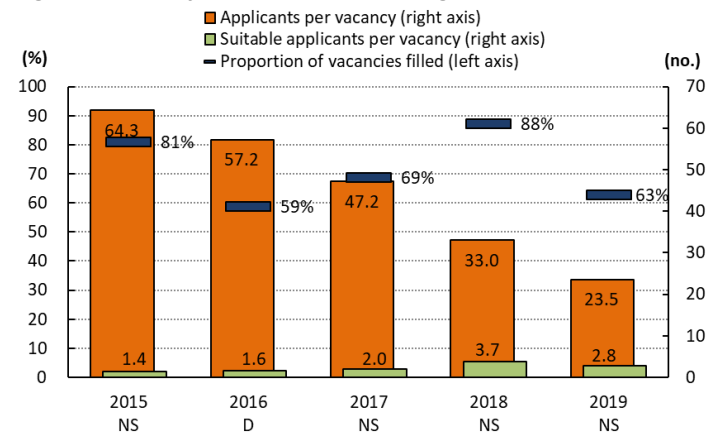


Figure 1: Survey results, Electrical Engineer, 2015 to 2019



Key to ratings: D = Recruitment difficulty; NS = No shortage

- The value of electrical sector engineering construction activity work yet to be done in December 2018 was 2.7 billion dollars. This is almost 250 per cent greater than for the year ending 2017.
- Victoria has established the Office of Projects Victoria that has initiatives to improve engineer workforce planning to map the current and future workforce needs against the Victorian major projects pipeline, develop skills and capability for project delivery staff and to improve skills sourcing.

¹ The methodology underpinning this research is outlined at [Skill Shortage Research Methodology](#)

Additional Data Sources: ABS 3101.0 Australian Demographic Statistics, Sep 2018, Summary; ABS Engineering Construction Activity, Australia, Table 17, Value of Work; Department of Education and Training, Higher Education Student Data Collection, 2017, customised tables; Department of Jobs and Small Business, Internet Vacancy Index, March 2019; Office of Projects Victoria, opv.vic.gov.au