 AUSTRALIA'S STEM WORKFORCE
Science, Technology, Engineering and Mathematics

**TOTAL STEM WORKFORCE**

**STEM qualified population**
- 68% Vocational Education & Training (VET) qualified
- 32% University qualified

**16% of STEM qualified people are female**
- 29% University qualified
- 9% VET qualified

**Unemployment rate**
- STEM = 3.7%
- Non-STEM = 4.1%

**Growth of STEM vs non-STEM qualified population**
Between 2006 and 2011:
- 26% Non-STEM
- 15% STEM

**STEM UNIVERSITY GRADUATES**

**Industries and occupations**
STEM graduates work across the economy in a wide variety of industries and largely as professionals (55%) and managers (18%).

**Top six industries (65% of STEM graduates)**
- 25% Professional, Scientific and Technical Services
- 10% Manufacturing
- 10% Public Administration and Safety
- 10% Education and Training
- 6% Health Care and Social Assistance
- 5% Financial and Insurance Services

**% of employed STEM graduates in the private sector**
- 32% male
- 12% female

**% of STEM graduates earning in the top income bracket ($104 000 or above)**

**STEM PhD GRADUATES**

**Business ownership**
- 23% Non-STEM PhDs
- 10% STEM PhDs

10% of STEM PhDs owned a business compared to 23% of non-STEM PhDs.

**A PhD can provide an earning premium**

**PhD earning multiplier**
- Biological Sciences PhD: 2.7x
- Environmental Studies PhD: 2.0x
- Chemical Sciences PhD: 1.9x

In every STEM field, higher proportions of PhDs earned in the top income bracket compared to bachelor graduates.