“The ideal engineer is a composite. He is not a scientist, he is not a mathematician, he is not a sociologist or a writer; but he may use the knowledge and techniques of any or all of these disciplines in solving engineering problems.” (1955 quote - N. W. Dougherty, B. 1886)

Source: 4

Women make up only 11.8 per cent of the engineering workforce in Australia, but many universities and industry partners are working to improve the gender imbalance. (see Role models - Inspiring women in engineering: at http://www.wes.org.uk/rolemodels)

Civil Engineering, the largest occupation (43,000 in Nov. 2015), is expected to grow strongly into November 2020. Civil Engineering Professionals are mainly employed in Professional, Scientific and Technical Services; Construction; and Public Administration and Safety.

Mechanical Engineering is also a large occupation, comprising Industrial, Mechanical and Production Engineers (31,400 in November 2015). Mechanical Engineers are mainly employed in Manufacturing; Professional, Scientific and Technical Services; and Mining.

Employment for Electrical Engineers to November 2020 is expected to grow moderately while for Chemical and Materials Engineers, levels are expected to remain relatively steady.

Specialist Roles for Engineering Professionals are expected to grow strongly by November 2020. These Engineering Professionals are mainly employed in Professional, Scientific and Technical Services; Manufacturing; and Public Administration and Safety.

“I don’t know a single roboticist who’s trying to replace people, it’s all about extending what people can do.” – Professor Cynthia Breazeal (B.S. in Electrical and Computer Engineering, S.M. and Sc.D in Electrical Engineering and Computer Science from MIT.)

Source: 6

Specialist Roles*

- Post Graduate / Graduate Diploma or Graduate Certificate
- Bachelor Degree
- Other qualification (Includes Advanced Diploma; Diploma; Certificate III / IV; and secondary school qualified workers in selected professions)