

Play your cards right, choose an...

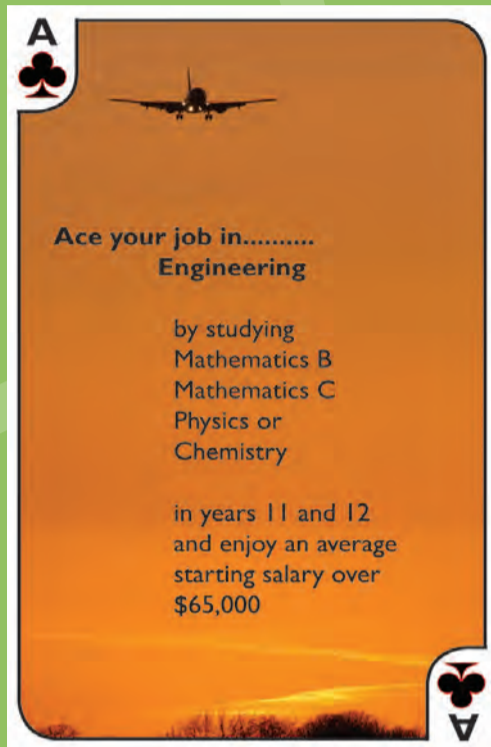
# ENGINEERING CAREER

[www.queenslandstem.edu.au](http://www.queenslandstem.edu.au)

**A**  
**Ace your job in.....  
Engineering**

by studying  
Mathematics B  
Mathematics C  
Physics or  
Chemistry

in years 11 and 12  
and enjoy an average  
starting salary over  
\$65,000



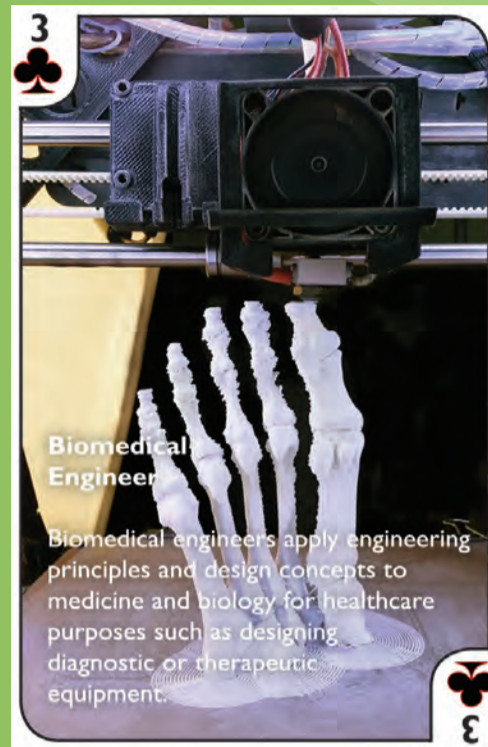
**2**  
**Agricultural Engineer**

Agricultural engineers study and advise on the use of engineering science and technology in agricultural production and management of natural resources. They solve problems relating to such things as sustainable agricultural production, the environmental impacts of intensive agriculture and the post-harvest handling of agricultural products.



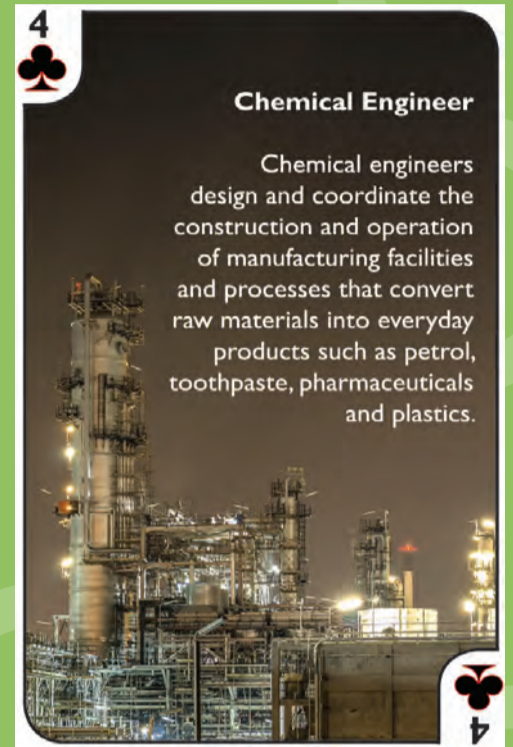
**3**  
**Biomedical Engineer**

Biomedical engineers apply engineering principles and design concepts to medicine and biology for healthcare purposes such as designing diagnostic or therapeutic equipment.




**4**  
**Chemical Engineer**

Chemical engineers design and coordinate the construction and operation of manufacturing facilities and processes that convert raw materials into everyday products such as petrol, toothpaste, pharmaceuticals and plastics.



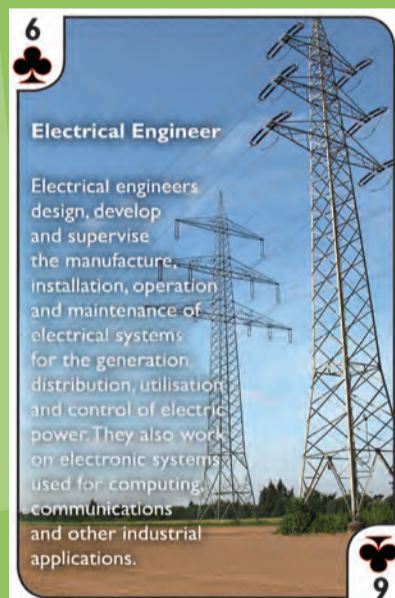
**5**  
**Civil Engineer**

Civil engineers plan, design, construct, operate and maintain roads, bridges, dams, water supply schemes, sewerage systems, transportation systems, harbours, canals, dockyards, airports, railways, factories and large buildings.



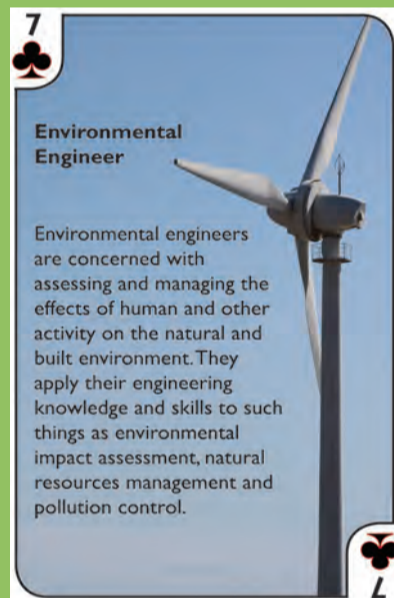
**6**  
**Electrical Engineer**

Electrical engineers design, develop and supervise the manufacture, installation, operation and maintenance of electrical systems for the generation, distribution, utilisation and control of electric power. They also work on electronic systems used for computing, communications and other industrial applications.



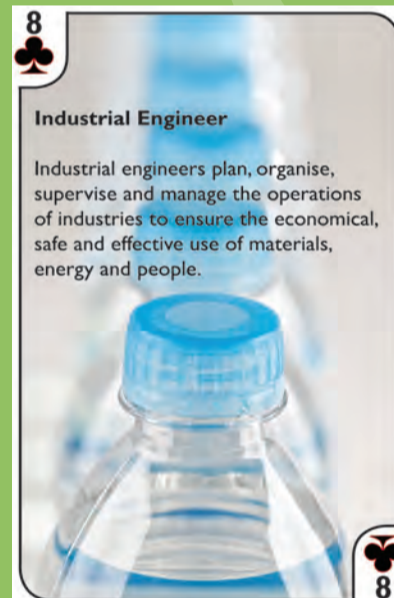
**7**  
**Environmental Engineer**

Environmental engineers are concerned with assessing and managing the effects of human and other activity on the natural and built environment. They apply their engineering knowledge and skills to such things as environmental impact assessment, natural resources management and pollution control.



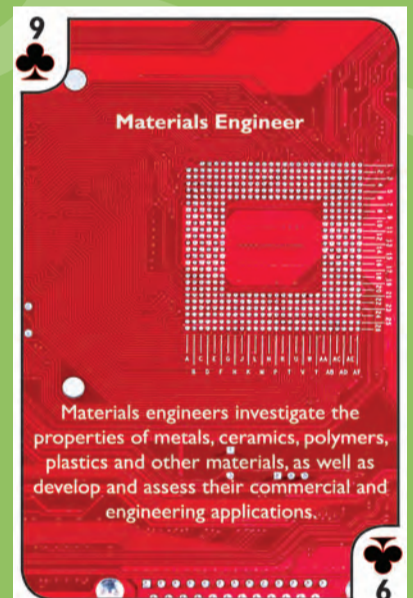
**8**  
**Industrial Engineer**

Industrial engineers plan, organise, supervise and manage the operations of industries to ensure the economical, safe and effective use of materials, energy and people.



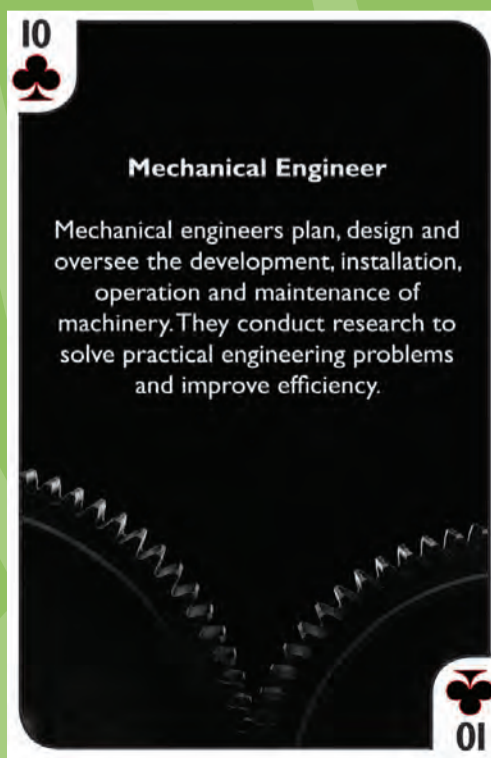
**9**  
**Materials Engineer**

Materials engineers investigate the properties of metals, ceramics, polymers, plastics and other materials, as well as develop and assess their commercial and engineering applications.



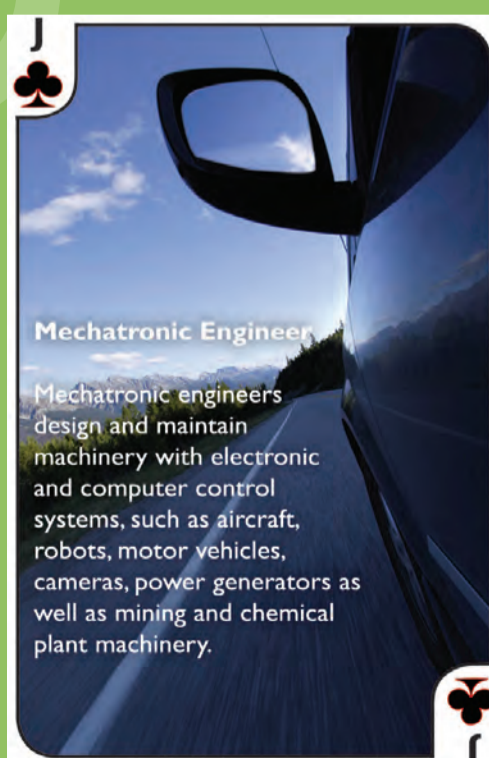
**10**  
**Mechanical Engineer**

Mechanical engineers plan, design and oversee the development, installation, operation and maintenance of machinery. They conduct research to solve practical engineering problems and improve efficiency.



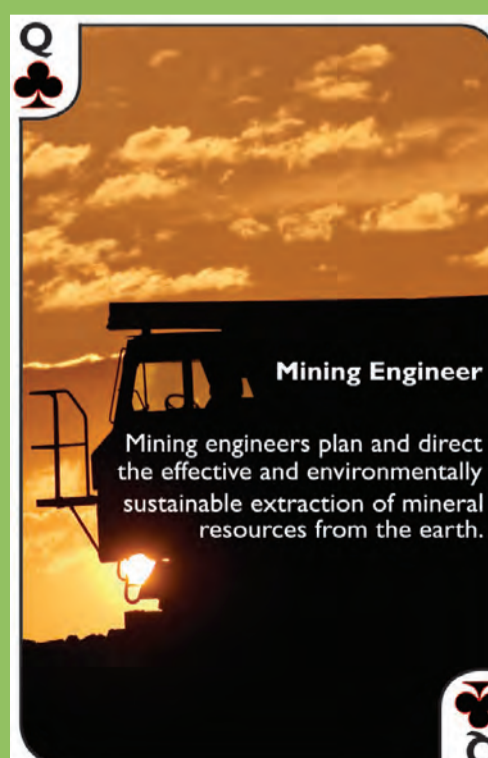
**J**  
**Mechatronic Engineer**

Mechatronic engineers design and maintain machinery with electronic and computer control systems, such as aircraft, robots, motor vehicles, cameras, power generators as well as mining and chemical plant machinery.



**Q**  
**Mining Engineer**

Mining engineers plan and direct the effective and environmentally sustainable extraction of mineral resources from the earth.



**K**  
**Minerals Process Engineer**

Minerals process engineers transform low-value impure minerals, recycled materials and by-products of other processing operations into commercially valuable products.

