

## ELECTRICAL ENGINEERS

design, develop and supervise the manufacture, installation, operation and maintenance of equipment, machines and systems for the generation, distribution, utilisation and control of electric power.

### Tasks Include:

- planning and designing power stations and power generation equipment
- determining the type and arrangement of circuits, transformers, circuit-breakers, transmission lines and other equipment
- developing products such as electric motors, components, equipment and appliances
- interpreting specifications, drawings, standards and regulations relating to electric power equipment and use
- organising and managing resources used in the supply of electrical components, machines, appliances and equipment
- establishing delivery and installation schedules for machines, switchgear, cables and fittings
- supervising the operation and maintenance of power stations, transmission and distribution systems and industrial plants
- designing and installing control and signalling equipment for road, rail and air traffic
- may specialise in research in areas such as power generation and transmission systems, transformers, switchgear and electric motors, telemetry and control systems