

# Mechanical Engineer

**FAB** Futures  
FOCUSED AMBITIOUS BRIGHT



Mechanical engineers undertake research and design, direct the manufacture and manage the operation and maintenance of engines, machines, aircraft, vehicle and ships' structures, building services and other mechanical items.



4.71% rise in employment over the next 5 years.



Typically working 35 - 40 hours per week, Monday to Friday or shift work including evenings and weekends.



- Designs mechanical equipment, such as steam, internal combustion and other non-electrical motors for railway locomotives, road vehicles, aeroplanes and other machinery.
- Determines materials, equipment, piping, capacities, layout of plant or system and specification for manufacture.
- Undertakes research and advises on energy use, materials handling, thermodynamic processes, fluid mechanics, vehicles and environmental controls.

For more information please visit

[wigan-leigh.ac.uk](http://wigan-leigh.ac.uk)



# Electrical Engineer

**FAB** Futures  
FOCUSED AMBITIOUS BRIGHT



Electrical engineers undertake research and design, direct construction and manage the operation and maintenance of electrical equipment, power stations, building control systems and other electrical products and systems.



4.1% rise in employment over the next 5 years.



Typically working 35 - 40 hours per week, Monday to Friday or shift work including evenings and weekends.



- Ensures that manufacture, operation and maintenance comply with design specifications and contractual arrangements.
- Determines and specifies manufacturing methods of electrical systems.
- Supervises, controls and monitors the operation of electrical generation, transmission and distribution systems.


For more information please visit


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# Civil Engineer

 Civil engineers design and manage construction projects, from bridges and buildings to transport links and sports stadiums.

 5.56% rise in employment over the next 5 years.

 Typically working 40 - 42 hours per week, Monday to Friday including evenings and weekends.

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- Organises and plans projects, arranges work schedules, carries out inspection work and plans maintenance control.
  - Designs structures such as roads, dams, bridges, railways, hydraulic systems, sewerage systems, industrial and other buildings and plans the layout of tunnels, wells and construction shafts.
  - Designs foundations and earthworks.

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