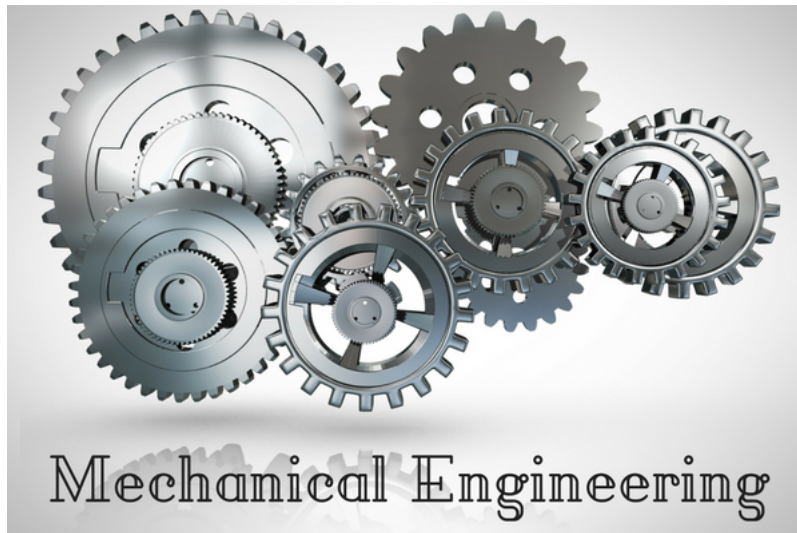


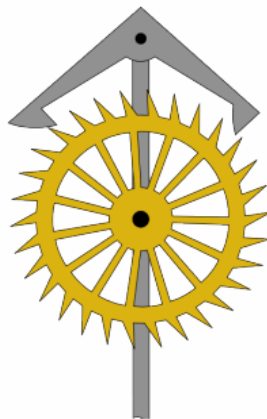
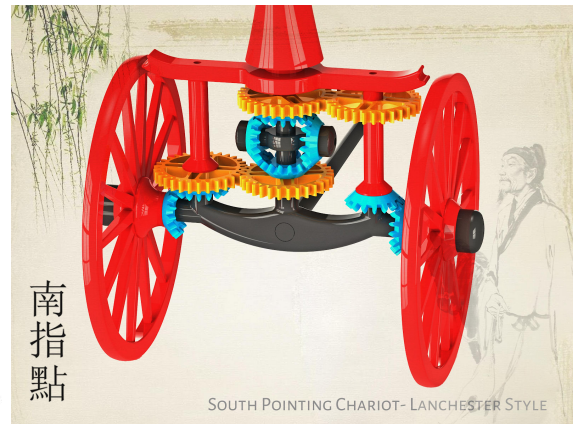
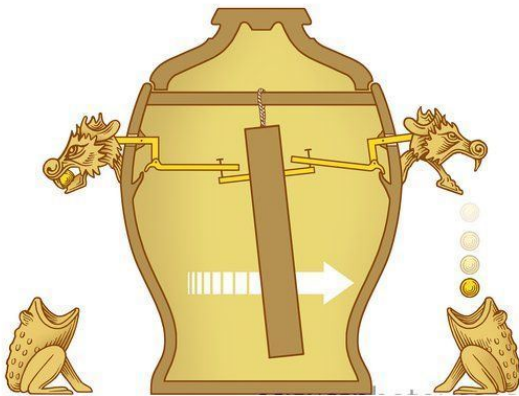
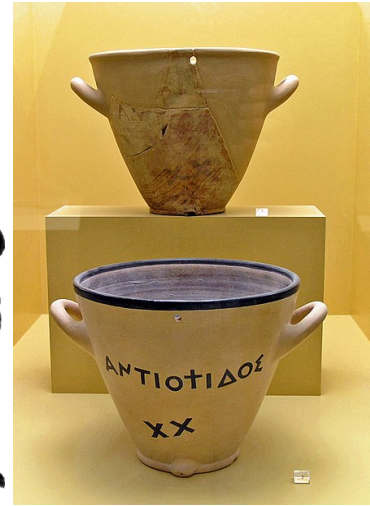
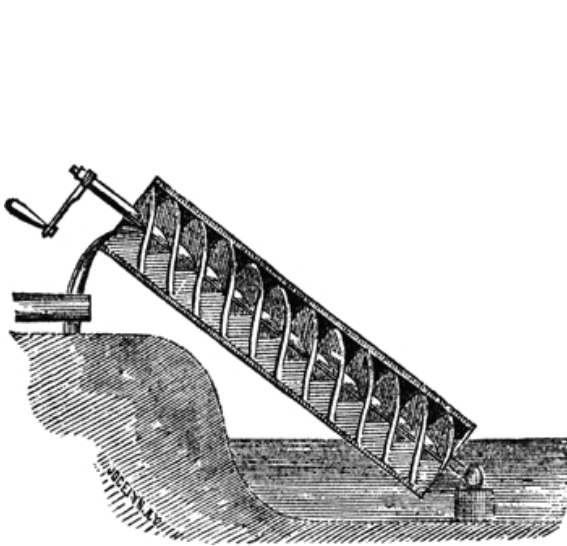
# Mechanical Engineering



1. Mechanical engineering applies **engineering, physics, and materials science to design, analyse, manufacture and maintain mechanical systems**. Although it has been around for thousands of years, with the **industrial revolution and developments in physics**, mechanical engineering emerged as a field of study.
2. Mechanical engineers **research, design, develop, build, and test mechanical and thermal devices, such as engines, machines and tools**. Basically **anything that moves or have moving parts** would be designed by a mechanical engineer.

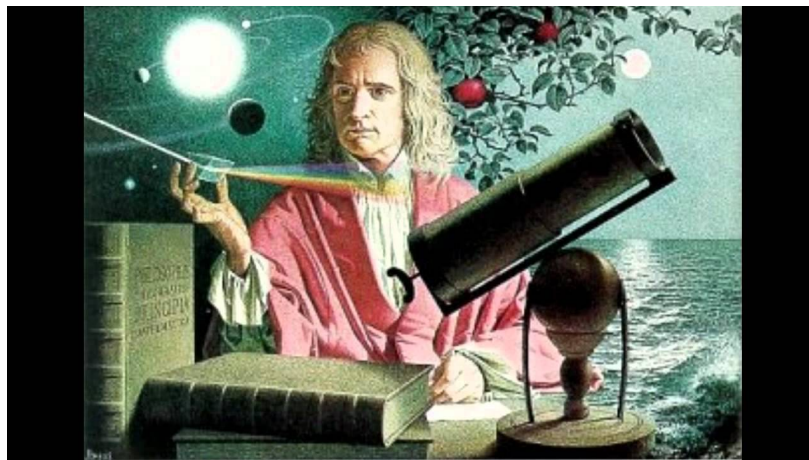


3. Some noted historical mechanical engineers are [Archimedes](#) (Greek, Archimedes screw), [Heron of Alexandria](#) (first steam engine). In China, [Zhang Heng](#) (water clock and seismometer), [Ma Jun](#) (differential gears, chain drive), [Su Song](#) (escapement mechanism).

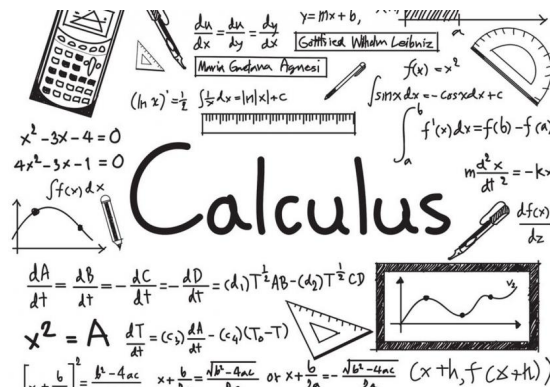




4. During the Islamic golden age (7th to 15th century) many Muslim inventors contributed to engineering, one of which was [Ismail al-Jazari](#) (crankshaft and camshaft). He also wrote a book called [Knowledge of Ingenious Mechanical Devices](#) in 1206.



5. During the 17th century [Sir Isaac Newton](#) developed his laws of motion and Calculus. This along with the [industrial revolution](#) saw great advances in all engineering disciplines.



6. The salary range for a mechanical engineer in Vancouver is \$45,070.00 to 90,545.00, with an average of \$63,574.00. These values are similar to civil engineers.