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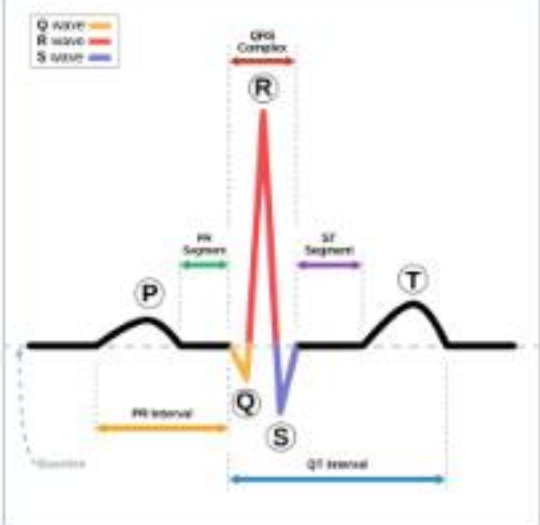
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Implants, such as [artificial hip](#) joints,  are generally extensively regulated due to the invasive nature of such devices.



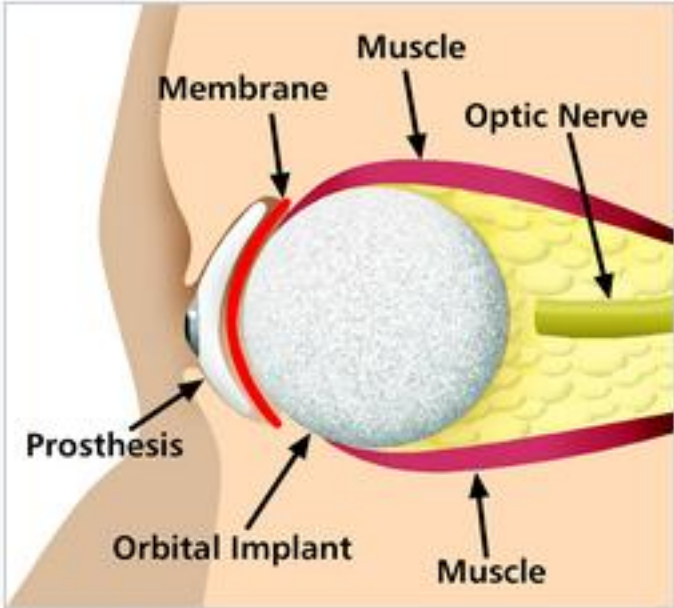
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Schematic representation of  a normal ECG trace showing *sinus rhythm*; an example of widely used clinical medical equipment (operates by applying *electronic engineering* to *electrophysiology* and *medical diagnosis*).



Ultrasound representation of urinary bladder (black butterfly-like shape) a hyperplastic prostate. An example of practical science and medical science working together.

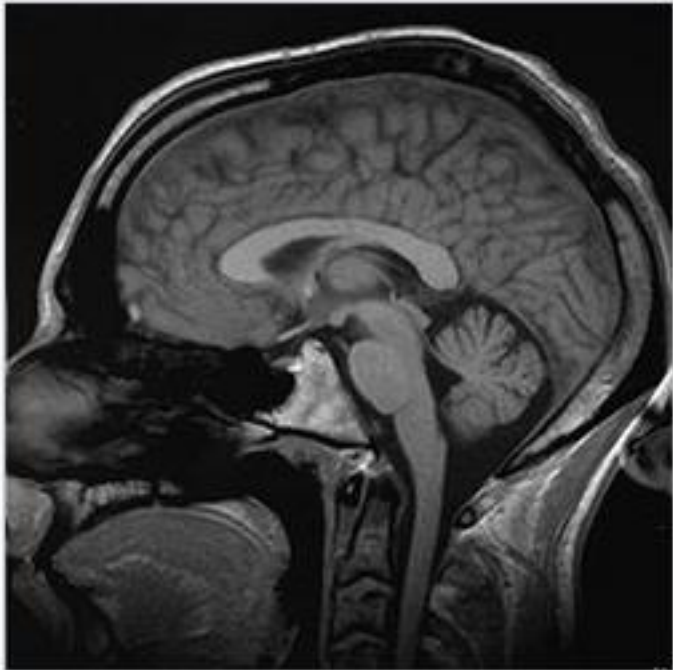


A [prosthetic eye](#), an example of a biomedical engineering application of [mechanical engineering](#) and [biocompatible materials](#) to [ophthalmology](#)



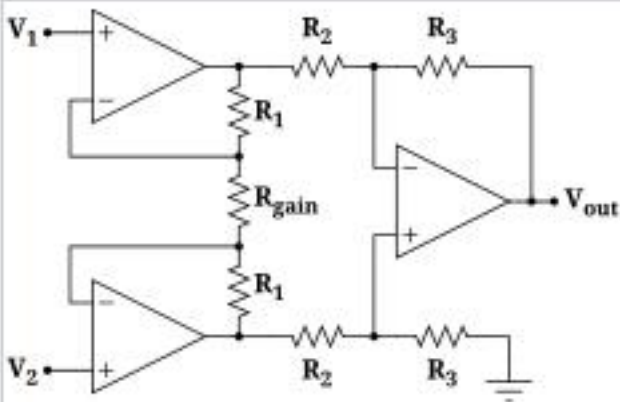
Artificial limbs: The right arm is an example of a **prosthesis**, and the left arm is an example of **myoelectric control**.




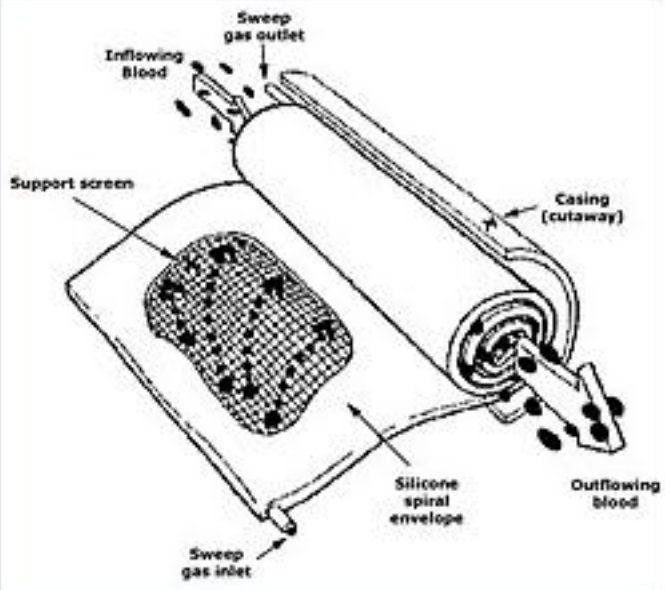


A T1-weighted [MRI](#) scan of a human head, an example of a biomedical engineering application of [electrical engineering](#) to [diagnostic imaging](#). [Click here](#) to view an animated sequence of slices.





Biomedical [instrumentation amplifier](#) 
schematic used in monitoring low
voltage biological signals, an example
of a biomedical engineering application
of [electronic engineering](#) to
[electrophysiology](#)



Schematic of silicone membrane
oxygenator



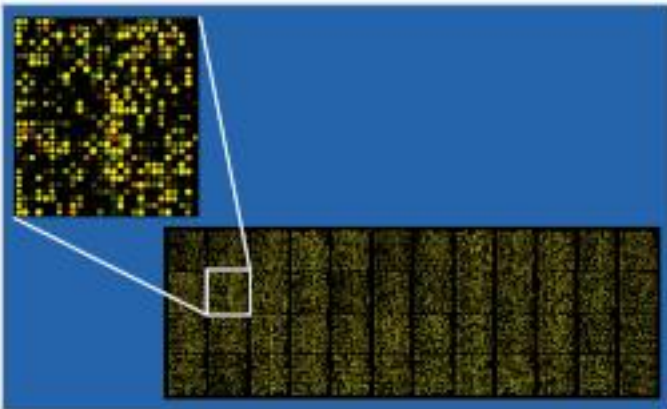


Micromass cultures of C3H-10T1/2 
cells at varied oxygen tensions stained
with [Alcian blue](#)



Data obtained from crash test dummy impacts are integral to the field of biomechanics.






Example of an approximately 40,000 probe spotted oligo [microarray](#) with enlarged inset to show detail





Hemodialysis, a process of purifying  the blood of a person whose **kidneys** are not working normally



Telemedicine system. *Federal
Center of Neurosurgery in Tyumen,
2013*





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