

Title:

What Is Bioengineering

Word Count:

551

Summary:

Bioengineering also know as biomedical engineering is a discipline that combines engineering e

Keywords:

bioengineering, biomedical engineering, biomedical, online degree, online engineering degree

Article Body:

Bioengineering also know as biomedical engineering is a discipline that combines engineering e

Advance the knowledge of living systems by applying engineering, biology, imaging

Improve the function of living systems by designing devices, systems and construct

Prevent the injury to living systems by building models, algorithms and devices th

The major advances in bioengineering include the development of artificial joints, magnetic re

Bioengineering Specialties

By combining biology and medicine with engineering, biomedical engineers develop devices and p

1. Bioinstrumentation

Bioinstrumentation is the application of electronics, measurement principles and techniques to

2. Biomechanics

Biomechanics is the study of mechanical parameters which drive living system motion. The biome

3. Clinical Engineering

Clinical engineering is the application of technology for health care in hospitals. The clinic

4. Rehabilitation Engineering

Rehabilitation engineering is a new and growing specialty area of biomedical engineering. Reha

Biomedical Engineer's Tasks

The examples of major contributions of biomedical engineers include:

Designing and constructing cardiac pacemakers, defibrillators, artificial kidneys,

Designing computer systems to monitor patients during surgery or in intensive care

Designing instruments and devices for therapeutic uses, such as a laser system for

Designing clinical laboratories and other units within the hospital and health car

Designing, building and investigating medical imaging systems based on X-rays, mag

In Summary

<u>Bioengineering</u> is a discipline that integrates the engineering sciences with the life s

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