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The three answers before this one are all good; however, I believe they all miss one

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important fact: a clear
understand and
definition of the phrase,
"first principles." In fact
I wonder if that phrase
shouldn't be removed
from the question, as t...

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Biomedical engineering, or bioengineering, is the application of engineering principles to the fields of biology and health care.

Bioengineers work with doctors, therapists and researchers to develop systems, equipment and devices in order to solve

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clinical problems.
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systems and to solve
medical problems.

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Biomedical engineers
combine engineering
principles with medical
sciences to design and
create equipment,
devices, computer
systems, and software.
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Most biomedical engineers work in manufacturing, universities, hospitals, and research facilities of companies and educational and medical institutions. They usually work full time.

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(BME) or medical engineering is the application of engineering principles and design concepts to medicine and biology for healthcare purposes (e.g. diagnostic or therapeutic). This field seeks to close the gap between engineering and medicine, combining the design and problem solving

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skills of engineering
with medical biological
sciences to advance
health care treatment ...

What Is Biomedical Engineering? | Live Science

Biomedical engineering
is a dynamic and
growing field that
applies engineering
principles to the fields
of biology and

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medicine. Biomedical engineers design new drugs; genetically engineered organisms; medical implants; and medical instruments. They also use their understanding of biology to re-invent man-made materials and products.

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2, Arthur B. Ritter ...

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application of the life
sciences and
engineering principles
to bridge the gap
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