

A close-up photograph of a prosthetic hand. The hand is black with a white wrist and is holding a black pen. The background is a plain, light-colored surface.

Biomedical Engineering

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What is Biomedical Engineering?

- Biomedical engineering combines engineering principles with biology and medicine. This helps to solve a variety of problems with the goal of improving patient care.
- Research, designing, and evaluating are major roles of a biomedical engineer.
- Biomedical engineers work in a variety of environments where they hold different responsibilities.

Education and Special Qualities

- Science and math courses that you should take in high school to start preparing for biomedical engineering.
- Required college degree for most BM engineering job positions.
- Important personal qualities that will make you an experienced and exceptional biomedical engineer.

Average Salary Ranges and Job Outlook

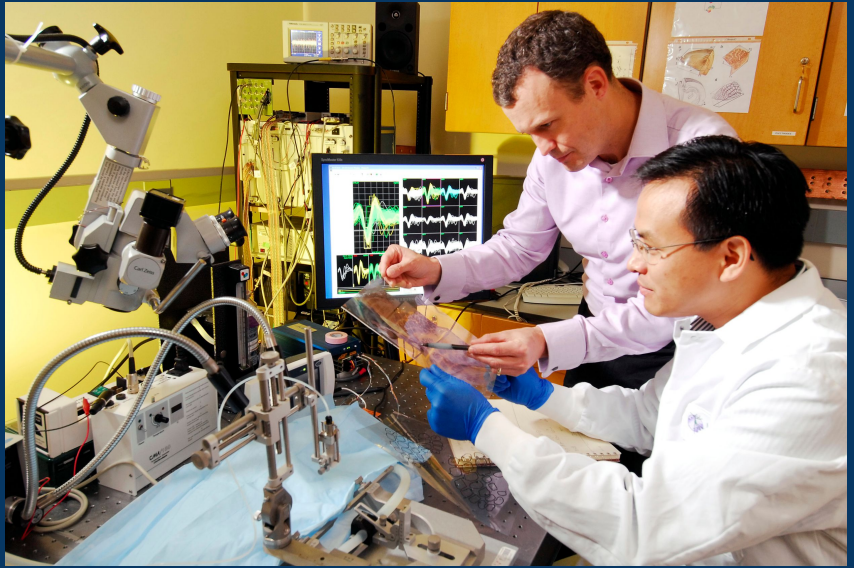
- A biomedical engineer's average salary is dependent on what college degree the engineer has and how long they've been working.
- An engineer with a Bachelor's degree has a salary range of \$35,213 to \$64,371. An engineer with a Master's degree and five to ten years of experience has a salary range of \$51,404 to \$84,098. The highest earning biomedical engineers have either a Master's or doctorate degree as well as more than fifteen years of experience. These professionals earn between 82,490 to \$112,063.
- It is speculated by the BLA that the percentage of biomedical engineering jobs will increase by twenty-seven percent from 2012 to 2022.

Professional Associations and Job Opening Site

Professional biomedical engineering organizations include: The Biomedical Engineering Society, American Institute for Medical and Biological Engineering, and the American Society for Engineering Education, Biomedical Engineering Division.

Job Opening Site:

http://www.careerbuilder.com/job/J3G1H06KMJLHVC0WKQL?ipath=JRG3&searchid=62c3f425-1ef4-44a3-862b-e3d358ae1c39&siteid=ns_us_g



Sources and Credits

Information

"What Is Biomedical Engineering?" *LiveScience*. TechMedia Network

"Biomedical Engineer." *Career Profile*.

"About Biomedical Engineering." *Engineering in Medicine and Biology Society*

"Library Guides: Biomedical Engineering: Professional Organizations." *Professional Organizations*

Pictures

<http://theopenacademy.com/sites/default/files/pictures/categorypage/Biomedical%20Engineering.png>

<http://cdn.wonderfulengineering.com/wp-content/uploads/2014/05/What-is-Biomedical-Engineering-5.jpg>

<http://cdn.wonderfulengineering.com/wp-content/uploads/2014/05/What-is-Biomedical-Engineering-8.jpg>

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