

Bioengineers and Biomedical Engineers

17-2031.00



Description: Apply knowledge of engineering, biology, chemistry, computer science, and biomechanical principles to the design, development, and evaluation of biological, agricultural, and health systems and products.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Biomedical Electronics Technician, Biomedical Engineer

Job Zone

Title: 4 - Considerable Preparation Needed

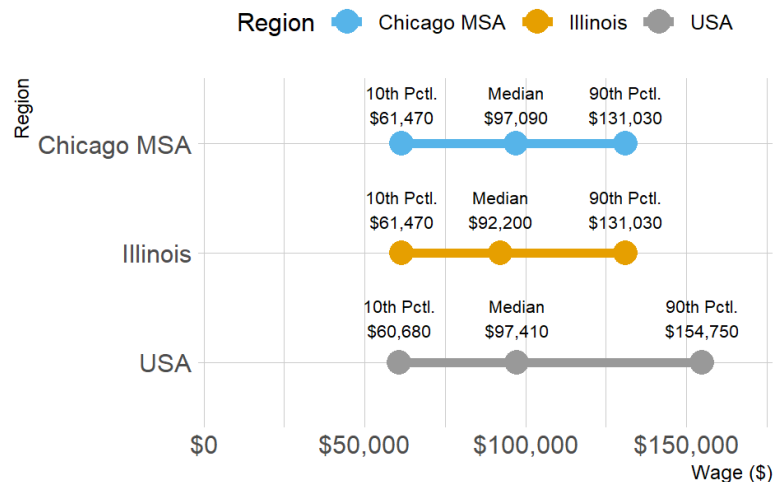
Education: Require a four-year bachelor's degree.

Experience: A considerable amount of work-related skill, knowledge, or experience is needed.

Training: Several years of work-related experience, on-the-job training, and/or vocational training needed.

Hot Technologies: Ab Initio, Adobe Systems Adobe Illustrator, Adobe Systems Adobe Photoshop, Autodesk AutoCAD, Bioreactor Design, C++

Region	Employment	Location Quotient	Median Wage
Chicago MSA	700	1.36	\$97,090
Illinois	760	1.11	\$92,200
USA	17,190	—	\$97,410



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Conduct research, along with life scientists, chemists, and medical scientists, on the engineering aspects of the biological systems of humans and animals.

Daily

83

Evaluate the safety, efficiency, and effectiveness of biomedical equipment.

Daily

78

Adapt or design computer hardware or software for medical science uses.

More than weekly

78

Develop models or computer simulations of human biobehavioral systems to obtain data for measuring or controlling life processes.

Daily

76

Research new materials to be used for products, such as implanted artificial organs.

More than monthly

75