



Discovering new fundamental principles regarding living systems

Biomedical engineers work at the intersection of technology, biology and medicine, addressing challenges that improve human health and drive scientific breakthroughs. Our biomedical engineering programs emphasize device innovation and provide a rigorous, forward-looking education that integrates engineering design, computational modeling, physiology and clinical problem-solving. Students gain hands-on experience through design projects, immersive laboratories and participation in advanced research shaping medical innovation – from AI-driven diagnostics and wearable sensors to gene-editing tools, neural interfaces and regenerative therapies.

Graduates are well prepared for high-impact careers in the growing medical device and biotechnology industries, contributing to technologies such as surgical robotics, prosthetics, implantable devices, imaging platforms and digital health tools. Others pursue paths in pharmaceuticals, diagnostics, clinical engineering, regulatory affairs, biomedical data science or advanced graduate research in areas like precision medicine, synthetic biology, computational neuroscience and tissue engineering.

Our programs also prepare students for advanced clinical training, including medical school and physician assistant programs. With strong technical expertise and problem-solving skills, our graduates are positioned to become innovators and leaders in the global biomedical technology landscape.

Undergraduate degree programs

- Biomedical engineering, BSE
- Biomedical engineering (biomedical devices), BSE
- Biomedical engineering (biological devices), BSE
- Biomedical engineering, BSE, Online

Career outcomes	Median annual salary
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Biomedical engineer	\$106,950
Biostatistician	\$103,300
Compliance manager	\$136,550
Health and safety engineer	\$109,660
Human factors engineer	\$101,140
Microsystem engineer	\$117,750
Regulatory affairs manager	\$136,550
Technical sales engineer	\$121,520
Validation engineer	\$101,140

*Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).





Industry partnerships

At the School of Biological and Health Systems Engineering, clinical partnerships tie our research endeavors to community needs and solutions. We work full-time on innovations to address the challenges facing society to improve the human condition. [Learn more.](#)

Companies hiring our graduates

Abbott Laboratories
Boston Scientific
Edwards Lifesciences
GE Healthcare
Integra LifeSciences
Johnson & Johnson
Medtronic
Siemens Healthineers
Stryker Corporation
Thermo Fisher Scientific
W.L. Gore & Associates

Research opportunities

The School of Biological and Health Systems Engineering at Arizona State University is closely connected to the biomedical industry and collaborates with leading clinical institutions, including Mayo Clinic in Arizona and HonorHealth.

Our students are highly sought after for internships and careers with biomedical companies such as W. L. Gore & Associates, Medtronic and BD. Students gain hands-on experience in industry, clinical, and campus research settings aligned with their interests. Research in our laboratories is highly active, and students at all levels are encouraged to participate, build professional skills and contribute to innovations that improve health outcomes and patient care.



My internship at BioLab Holdings exposed me to the full biotech pipeline, from research and product development to quality and marketing. I applied the design process, documentation, and cross-functional communication skills from ASU's BME program to real-world projects. The collaborative, hands-on foundation of ASU BME helped me contribute confidently and effectively to an industry team."

Claire Kennedy
Intern at BioLab Holdings
'26 BS in biomedical engineering



My internship at Humabiologics® in R&D production allowed me to apply classroom learning in a real-world, regulated environment while gaining hands-on experience with GMP and SOPs. Working in production strengthened my documentation, communication, and problem-solving skills, helping turn my academic background into practical industry experience."

Srikar Samavedam
Intern at Humabiologics®, Inc
'25 BS in biomedical engineering
'26 ME in biomedical engineering



Join in. Stand out.

Whether you are looking for a new social outlet or want to get a jump on your career, a student organization will enrich your academic experience. Here are just a few student orgs you can get involved in:

- Engineering Projects in Community Service
- Fulton Undergraduate Research Initiative
- Grand Challenges Scholars Program
- Biomedical Engineering Society
- Student Advisory Board at the School of Biological and Health

Scan here to learn more about your school!

