

Historical Development



About Us

<https://en.bme.sjtu.edu.cn>



SHANGHAI JIAO TONG UNIVERSITY School of Biomedical Engineering

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SHANGHAI JIAO TONG UNIVERSITY School of Biomedical Engineering



Interdisciplinary, International, Innovative

Academic Organizations



Overview



The School of Biomedical Engineering (BME) at Shanghai Jiao Tong University (SJTU) was founded in April 2011, while the history of our BME program dated back to 1979, when the subject of biomedical instrumentation was first established. It has been consistently ranked at the forefront in China by the Ministry of Education, based on national assessment conducted every five years. By leveraging the unique engineering strength of SJTU and significant clinical resources of our teaching hospitals, the school has placed a particular emphasis on "interdisciplinary, international collaboration, and innovative clinical applications".

In 2019, our undergraduate program was certified by the Accreditation Board for Engineering and Technology (ABET). This is the first BME program in China certified by ABET, demonstrating its quality and international standard. It is also among the first to be classified into the top tier programs by the Ministry of Education.



Faculty

Our research focuses on three main themes:

Biomedical Instrumentation

Research and development of smart interventional tools, micro-manipulation, wearable/implantable sensing, robotics and intelligent point-of-care devices for the prevention, early diagnosis, minimally invasive treatment and personalized intervention of diseases.

Nano, Molecular and Regenerative Medicine

Nano, Molecular, and Regenerative Medicine includes both basic and translational research. Our work in this area is highly multidisciplinary, including materials science, tissue engineering, therapeutics, and molecular and cellular biology.

Imaging, Computational and Systems Biomedicine

Imaging, Computational and Systems Biomedicine addresses multilevel, hierarchical data capture and modelling for the understanding of biological processes and systems, driven by advances in medical imaging, AI, computational science, systems biology and medicine.

To nurture the new generation engineers and scientists in BME, our program has emphasized students' ability to master and synthesize knowledge across different disciplines, while fostering a deep understanding of human and societal needs across diverse cultures and economic backgrounds.

Academic Organizations

	Med-X研究院 (临床前转化) Med-X
	磁共振诊疗高端技术国家工程研究中心 (国家级平台) National Engineering Research Center of Advanced Magnetic Resonance Technologies
	医疗机器人研究院 (校级平台) SJTU Institute of Medical Robotics

生物医学工程
Biomedical Instrumentation

纳米、分子及再生医学
Nano, Molecular and Regenerative Medicine

医学、计算及系统生物医学
Imaging, Computational and Systems Biomedicine



Vision

Cultivating new talents has been at the core of our educational mission. We have been exploring innovative training models to prepare our students to become future leaders in biomedical engineering—equipped with strong social responsibility and intellectual rigor to address the evolving challenges of society.

We have developed a comprehensive curriculum that integrates classroom instruction with hands-on research experience. Our close collaboration with clinical partners provides a solid foundation for translating scientific advancements into first-in-human applications. Students work closely with our faculty, actively contributing to our mission of scientific discovery, innovation, and translational research that transform human health.



Global Collaboration

13 Double Degree Programs

7 Exchange Programs

3 Summer Schools

20+ Partners Globally

- Royal Institute of Technology (KTH)
- Heidelberg University
- ETH zürich
- Swiss Federal Institute of Technology in Zurich
- Purdue University
- UC-Berkeley
- Northwestern University
- Nanyang Technological University
- National University of Singapore
- University of Illinois at Urbana-Champaign
- Drexel University
- Johns Hopkins University

Programs

Degree Program

Undergraduate Program

Master Program

PhD Program

Non-degree Program

Semester Program:
Semester Exchange Program

Short Term Program:
Global Summer School

Visiting Student Program

Summer Research Internship Program