The School of Science is a prolific generator of new knowledge. Some of our faculty members are devoted to doing this well. Some of our most famous faculty members, even a few with Nobel Prizes, are among the best teachers of our first-year undergraduate subjects. Our science majors are given the very best introduction to their chosen fields and the opportunity to participate in leading-edge research. Whether our undergraduates choose to start careers in the private or public sector or go on to graduate studies in science or a professional school in an area such as medicine, law, business, or engineering, they will be superbly prepared for their careers after MIT.

Many of our graduate students have pursued distinguished careers in research and education; however, others enjoy equally satisfying careers in business, industry, and government. Often combining their PhD degrees in science with medical, law, or business degrees, our graduate students are uniquely capable of making creative contributions to the modern world.

History
Science has been at the core of an MIT education since the Institute’s founding in 1861 by the distinguished natural scientist, William Barton Rogers. The earliest offerings in chemistry, geology, and general science were expanded to include physics, mathematics, and biology, and then consolidated as the School of Science under the leadership of Karl Taylor Compton in 1932. During Compton’s tenure and into the postwar years, the Institute saw vast growth in the physical sciences as federal funding for basic research increased.

In 1969, the Geology Department became the Department of Earth and Planetary Sciences, and when it merged with the Department of Meteorology and Physical Oceanography in 1983, it evolved into the present-day Department of Earth, Atmospheric and Planetary Sciences.

As the life sciences attained new prominence in the 1970s and 1980s, the Department of Biology grew with the additions of the Center for Cancer Research (now the Koch Institute for Integrative Cancer Research) and the Whitehead Institute for Biomedical Research. In 1994, the Department of Brain and Cognitive Sciences (BCS) moved from the Whitaker College of Health Sciences and Technology to the School of Science. More recently, BCS was expanded by the creation of the McGovern Institute for Brain Research and the Picower Institute for Learning and Memory, broadening the school-wide resources for research in the neurosciences.

Science Laboratories and Centers
Much of our research in science is carried out in large research laboratories and centers like the Whitehead and Picower institutes, where the kinds of facilities necessary for research are available and collaboration among research groups is encouraged. Laboratories and centers with strong participation by school members include:

- Broad Institute of MIT and Harvard
- Center for Global Change Science
- Koch Institute for Integrative Cancer Research
- Laboratory for Nuclear Science
- McGovern Institute for Brain Research
- MIT Kavli Institute for Astrophysics and Space Research
- The Picower Institute for Learning and Memory
- Research Laboratory for Electronics
- Simons Center for the Social Brain
- Whitehead Institute for Biomedical Research
Interdepartmental Educational Programs

MIT is exceptional among major research institutions for its dedication to undergraduate education. Committed to providing undergraduates with a strong science base for studies in their major, the school and its departments participate in and support a variety of programs designed to create more active, student-centered learning environments inside the classroom. For instance, the Undergraduate Research-Inspired Experimental Chemistry Alternatives curriculum integrates cutting-edge research with core chemistry concepts.

Over the past several years, the School of Science has expanded educational and training opportunities for graduate students as well, collaborating with the School of Engineering to create innovative graduate programs in fields in which MIT shows great strength. These programs allow MIT to attract the most talented students in their respective fields and to build cross-disciplinary connections among the Institute’s faculty members, departments, and schools.

- **Biophysics** ([http://biophysics.mit.edu](http://biophysics.mit.edu)). Students in the Biophysics program are trained to work at the intersection of the physical sciences, engineering, and the biology of molecules, cells, and systems. Students participate in MIT’s biophysics research, ranging from molecular-level spectroscopy and imaging to cell and population-level systems biology.


- **Microbiology** ([http://web.mit.edu/microbiology](http://web.mit.edu/microbiology)). With access to a vibrant community of more than 50 faculty members across several departments and divisions, Microbiology students receive broad training and in-depth research experience in modern microbial research and engineering.

- **Molecular and Cellular Neuroscience** ([https://mcn.mit.edu](https://mcn.mit.edu)). MCN students work at the forefront of molecular and cellular neuroscience research, with access to a distinguished research community as it strives to understand the biological basis of brain function and neurological disease.

- **Statistics** ([https://stat.mit.edu/academics/idps](https://stat.mit.edu/academics/idps)). Students in the interdisciplinary doctoral program in statistics use concepts of computation and data analysis, as well as elements of classical statistics and probability, for applications in aeronautics, astronautics, brain and cognitive sciences, economics, mathematics, political science, and social and engineering systems.