

MIT School of Science Majors Guide

Biology (Course 7)

Skill Set

- Ability to work independently and in teams
- Analytical and quantitative skills
- Computational skills
- Creativity
- Critical thinking
- Curiosity
- Innovation
- Logical reasoning
- Making projections from data
- Problem-solving
- Proficiency with scientific equipment
- Oral and written communication
- Organization
- Statistical ability

Areas of Expertise

Agronomy	Biomedical Research	Conservation Biology	Genetics	Medical Devices	Physiology
Biochemistry	Biotechnology	Ecology and Environment	Healthcare	Microbiology	Science Writing
Bioengineering	Botany	Education	Immunology	Molecular Biology	Toxicology
Bioinformatics	Cell Biology	Epidemiology	Marine and Aquatic Biology	Pharmacology	Zoology

Careers of Course 7 Alumni

- Admissions Counselor, Massachusetts Institute of Technology
- Acupuncturist, Acupuncture Clinic of Norwood
- Analyst, Homeland Security Institute
- Assistant Editor, Nature Publishing Group
- Bioscientist, Florida Department of Agriculture & Consumer Services
- Consultant, Boston Consulting Group
- Creative Services Director, PUMA North America
- Director, Brigham & Women's Hospital Molecular Genetics Lab
- Director of Marine Programs, Wildlife Conservation Society
- Executive Vice President, New York University
- Founder and Principal Consultant, LeapFrog R&D
- Medical Officer, U.S. Food & Drug Administration
- Microbiologist, U.S. Environmental Protection Agency
- Partner, McKinsey & Company

- Patent Lawyer, Hale & Dorr
- Physician, Massachusetts General Hospital
- Product Development Engineer, Becton Dickinson
- Professor, University of California-San Diego
- Quantitative Analyst, Deutsche Bank
- Research Investigator, Bristol-Myers Squibb
- Scientific Associate, Novartis
- Seismologist, Hawaiian Volcano Observatory
- Senior Vice President of Worldwide Bioinformatics, GlaxoSmithKline
- Teacher, Boston Latin School
- Technical Advisor, Ropes & Gray LLP

To contact Course 7 alumni, visit the ICAN network at <http://web.mit.edu/alum/career/ican>.

Companies Hiring Course 7 Alumni

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| • Accenture | • National Institutes of Health |
| • Children's Hospital Boston | • Novartis |
| • Davis, Polk & Wardwell | • Pearson Education |
| • D.E. Shaw Research and Development | • Pfizer |
| • Fidelity Investments | • Procter & Gamble |
| • General Electric | • Raytheon |
| • Genzyme Corporation | • Scripps Research Institute |
| • IBM | • Teach for America |
| • Lehman Brothers | • The Dow Chemical Company |
| • Locus Pharmaceuticals | • Woods Hole Oceanographic Institution |
| • L'Oreal | • Wrigley Institute for Environmental Studies |
| • Massachusetts General Hospital | • Yahoo! |
| • Memorial Sloan-Kettering Cancer Center | |

For more detailed information about what you can expect after graduation, visit the MIT Graduating Student Surveys at <http://web.mit.edu/career/www/infostats/graduation.html>.

General Career and Job Search Resources

General Web sites

America's Career Info Net <http://www.acinet.org>

Bioview <http://www.bioview.com>

Careers in Biology (from Emporia State) <http://www.emporia.edu/biosci/carebiol.htm>

Careers in the Biological Sciences <http://www.aibs.org/careers/index.html>

SciCentral.com <http://www.scicentral.com>

ScienceCareers.org <http://sciencecareers.sciencemag.org>

ScienceJobs.com <http://www.sciencejobs.com>

Sloan Career Cornerstone Center <http://www.careercornerstone.org/biology/biology.htm>

Internships, Job Listings, and Alumni Networking

IAP Externship Program <http://alum.mit.edu/ccg/students/externships/index.html>

ICAN <http://alum.mit.edu/cs/ican/index.html>

Internships on the Web <http://www.rit.edu/~gtfsbi/Symp/summer.htm>

Internship Opportunities <http://www.sciencecareersweb.net/BioWeb/BioIntern.htm>

MIT Biology Job Listings <http://web.mit.edu/biology/www/admin/hqhr/jobop.html>

MonsterTRAK <http://www.monstertrak.monster.com>

Summer Internships in Biology <http://www.columbia.edu/cu/biology/ug/intern.html>

UROPE <http://web.mit.edu/urop/>

Occupational Information

Occupational Outlook Handbook <http://www.bls.gov/oco>

Occupational Informational Network <http://online.onetcenter.org>

Books

Great Jobs for Biology Majors By Blythe Camenson

What Can You Do With a Major in Biology? By Bart Astor

For more specific resources by field, visit <http://web.mit.edu/career/www/infostats/science/bioresource.pdf>.

Salary Information

Salary.com <http://www.salary.com>

MIT Salary Survey <http://web.mit.edu/career/www/salary.html>

Professional Associations

American Association for the Advancement of Science <http://www.aaas.org>

American Institute of Biological Sciences <http://www.aibs.org>

American Society for Microbiology <http://www.asmusa.org>

Biotechnology Industry Organization <http://www.bio.org>

Federation of American Societies for Experimental Biology <https://ns2.faseb.org>

Organizations and Opportunities at MIT

Biology Undergraduate Students Association <http://mit.edu/busu>

Cambridge/MIT Exchange <http://web.mit.edu/biology/www/undergrad/CMEexchange.html>

MIT Biochemistry Undergraduate Association <http://web.mit.edu/muba/www/>

Departmental Homepage

MIT Department of Biology <http://mit.edu/biology/www>

Next Steps

Utilize all available sources to research possible careers.

Network with current students and alumni who work in your area of interest.

Visit the MIT Careers Office to schedule an appointment with a counselor.