Biotechnology Career Information

Biotechnology is technology based on biology - biotechnology harnesses cellular and biomolecular processes to develop technologies and products that help improve our lives and the health of our planet. Modern biotechnology provides breakthrough products and technologies to combat debilitating and rare diseases, reduce our environmental footprint, feed the hungry, use less and cleaner energy, and have safer, cleaner and more efficient industrial manufacturing processes. Currently, there are more than 250 biotechnology health care products and vaccines available to patients, many for previously untreatable diseases. More than 18 million farmers around the world use agricultural biotechnology to increase yields, prevent damage from insects and pests and reduce farming’s impact on the environment. And more than 50 biorefineries are being built across North America to test and refine technologies to produce biofuels and chemicals from renewable biomass, which can help reduce greenhouse gas emissions. Biotechnology is a growing field, consisting of applied biology and bioprocesses in engineering, technology, and medicine.

CAREER OPTIONS
There are hundreds of career options for biotechnology professionals, below are some of the most popular career areas:

+ Biomedical Research
+ Biomedical Engineering
+ Aquaculture
+ Bioinformatics
+ Biofuels
+ Biomanufacturing
+ Biomaterials
+ Biopharmaceuticals
+ Bioprocessing
+ Cell Culture
+ Drug Discovery
+ Food Safety
+ Genomics
+ Lab Safety
+ Marine Biotechnology
+ Medical Devices
+ Quality Control
+ Pharmaceutical Sales

BIOTECHNOLOGY COMPANY LISTINGS
See BOOK OF LISTS in the Career Resource Room @ Career Services

BioPharmGuy – Bay Area & Northern California

BioPharmGuy – San Diego & Southern California

San Diego Biotechnology Network
http://sdbn.org/directory/

Forbes – The Country’s Biggest Biotechs

Forbes – The World’s Largest Drug & Biotech Companies
PUTTING SCHOLARSHIP, LEADERSHIP, AND CITIZENSHIP TO WORK

GRADUATE SCHOOL

Biotechnology graduate programs are largely programs focused on an applied science. Students in graduate programs in biotechnology study both biology and technology to try to understand cellular and molecular processes in order to learn how to create technologies that may improve human and animal life, as well as the environment. Masters Programs in Biotechnology such as a MS Bioscience Technologies or Ph.D Doctorate Programs in Biotechnology and online Graduate Certificate in Biotechnology programs are available. Students interested in enrolling in a biotechnology graduate school will benefit from having a background in the sciences or technology, but individuals from a wide variety of backgrounds can also be very successful. Biotechnology degree programs may prepare students to pursue potential career opportunities in agriculture, research, healthcare, medical science, food science, public policy and more.

GRADUATE SCHOOL RESOURCES

This is not an exhaustive list of graduate programs. It’s important to do extensive research on programs of interest and connect with admissions staff.

GradSchools.com
http://www.gradschools.com/programs/biomedical-science/biotechnology

BiotechnologyDegrees.org
http://www.biotecnologymasters.org/page/biotechnology-degree-search

Peterson’s
http://www.petersons.com

Molecular, Cellular, and Developmental Biology
http://www.ucsb.edu/grad/courses/pharmacology-biotechnology

CSU Channel Islands – MS Biotech/MBA Dual Degree
http://ext.csuci.edu/ms-biotechnology-mba-dual/

Cal Poly Pomona – Department of Biological Sciences
http://www.cpp.edu/~sci/biological-sciences/pabs/index.shtml

Fresno State – Biotechnology Master’s Program
http://www.fresnostate.edu/csm/biology/degrees/graduate/biotech/

UC Riverside – Department of Bioengineering
http://bioeng.ucr.edu/education/graduate/ms.html

UC Irvine – Biotechnology Management
http://merage.uci.edu/biotechmanagement/

Brown University – BioMed: Biotechnology
http://www.brown.edu/academics/gradschool/programs/biomed-biotechnology

University of San Francisco – PSM in Biotechnology
http://www.usfca.edu/arts-sciences/graduate-programs/biotechnology

Keck Graduate Institute – Master of Bioscience
http://www.kgi.edu/academic-programs/master-of-bioscience-

Columbia University – Biological Sciences

JOB SEARCH RESOURCES

UCSB CAREER SERVICES
http://career.sa.ucsb.edu

UCSB CAREER SERVICES LIBRARY @ CRR

Indeed.com
http://www.indeed.com

TheScientist
http://career.the-scientist.com

BioSpace
http://www.biospace.com/jobs/homepage/

Biotech Careers
http://biotech-careers.org

BioPharmGuy

biojobnet
http://www.biojobnet.com

medzilla
http://www.medzilla.com

tinytechjobs
http://www.tinytechjobs.com

PharmaOpportunities
http://www.pharmaopportunities.com

NewScientist
http://jobs.newscientist.com

National Institutes of Health
http://www.jobs.nih.gov

Biotechnology Institute