

# Training and Education Initiatives in Biotechnology

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Note: The programs and degrees listed here do not include the more traditional disciplines that contribute to biotechnology, such as genetics, molecular biology, microbiology, and chemical engineering, though most of the universities listed here offer those degrees as well. Listing here does not constitute any endorsement or certification by OTA.

## California

\*California Polytechnic State University  
**Biochemical Engineering**  
San Louis Obispo, CA 93407  
Degrees offered: B.S./M.S.  
Year of Initiation: 1986

California State University, Hayward  
**Certificate Program in Biotechnology**  
Department of Biological Sciences  
Hayward, CA 94542  
Degrees offered: M.S. with certificate in  
Biotechnology  
Year of Initiation: 1986

California State University, Los Angeles  
**Certificate Program in Biotechnology**  
Department of Biology  
5151 State University Dr.  
Los Angeles, CA 90032  
Degrees offered: Graduate Certificate in  
Biotechnology  
Year of Initiation: 1987

San Diego State University  
**Program for Biotechnology Education and  
Research**  
Molecular Biology Institute  
San Diego, CA 92182  
Degrees offered: Certificate in Recombinant DNA  
(1983); Certificate in Protein Engineering (1988);  
M.A. in Biotechnology and Certificate in  
Agricultural Biotechnology (pending approval).  
Year of Initiation: 1980

San Diego State University  
**California State University System Program for  
Biotechnology Education and Research**  
Molecular Biology Institute  
San Diego, CA 92182-0328  
Degrees Offered: None  
Year of Initiation: 1987

San Francisco State University  
**Genetic Engineering Certificate**  
Department of Biology  
San Francisco, CA 94132  
Degrees Offered: Certificate  
Year of Initiation: 1983

University of California, Davis  
**Biotechnology Program**  
College of Agriculture and Environmental Science  
Davis, CA 95616  
Degrees Offered: B. S., M. S., Ph.D. in various  
disciplines  
Year of Initiation: Not Applicable

## District of Columbia

Catholic University of America  
**Center for Advanced Training in Cell and  
Molecular Biology**  
Room 103 McCort-Ward Building  
Washington, DC 20064  
Degrees Offered: None  
Year of Initiation: 1982

## Florida

\*University of Florida  
**Florida Biotechnology R & D Institute**  
1 Progress Blvd.  
P.O. Box 26  
Alachua, FL 32615  
Degrees Offered: None  
Year of Initiation: 1987

\*University of Florida  
**Interdisciplinary Center for Biotechnology  
Research**  
1301 Fifield Hall  
Gainesville, Florida 32611  
Degrees Offered: None  
Year of Initiation: 1987

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\*Survey information not provided by program to OTA.

\*University of South Florida

**Biotechnology Tracks**

Tampa, FL 33620

Degrees Offered: Biotechnology Tracks in  
Chemical Engineering and Biology; Combined  
B.S./M.S. in Biotechnology is planned

Year of Initiation: 1985

**Georgia**

\*University of Georgia

**Biotechnology Center**

Athens, GA 30602

Degrees Offered: None

Year of Initiation: 1982

**Illinois**

University of Illinois—Urbana/Champaign  
**Biological Engineering Program and Bioprocess  
Engineering Research Laboratory**

Bioprocess Engineering Laboratory Committee

208 North Romine

Urbana, IL 61801

Degrees offered: M.S. and Ph.D. in Biological  
Engineering (planned)

Years of Initiation: Research (1986); Engineering  
Program (1988)

**Iowa**

\*Iowa State University

**Biotechnology Program**

Office of Biotechnology

1301 Agronomy

Iowa State University of Science and Technology

Ames, IA 50011

Degrees offered: none

Year of Initiation: 1984

University of Iowa

**Biocatalysis: A Graduate Program in  
Biotechnology**

College of Pharmacy

Iowa City, IA 52242

Degrees Offered: No specific biotechnology degree

Year of Initiation: 1983

University of Iowa

**Biochemical Engineering/Biotechnology**

Department of Chemical & Materials Engineering

Iowa City, IA 52242

Degrees offered: MS., Ph.D. in Chemical and  
Materials Engineering with emphasis in  
Biochemistry/Biotechnology

Year of Initiation: 1985

University of Iowa Medical School

**Iowa Biotechnology Training Program**

Department of Microbiology

Iowa City, IA 52242

Degrees Offered: No specific biotechnology degree

Year of Initiation: 1984

**Kentucky**

University of Kentucky

**Biotechnology Undergraduate Degree**

Department of Biochemistry

800 Rose St.

Lexington, KY 40536

Degrees Offered: B.S. in Biosciences/Biotechnology

Year of Initiation: 1987

**Maryland**

University of Maryland, Baltimore County

**Master of Science in Applied Molecular Biology**

Applied Molecular Biology

Department of Biological Sciences

Catonsville, MD 21228

Degrees offered: M.S., 5-year B.S./M.S.

Year of Initiation: 1981

**Massachusetts**

\*Becker Junior College

**Biotechnician Program**

3 Paxton St.

Leicester, MA 01524

Degrees Offered: A.A.S.

Year of Initiation: 1988

Massachusetts Institute of Technology<sup>a</sup>

**Biochemical Engineering**

Department of Applied Biological Sciences

MIT Room 20A-207

Cambridge, MA 02139

Degrees Offered: M.S. and Ph.D. in Biochemical  
Engineering

Year of Initiation: 1955

Massachusetts Institute of Technology

**Biotechnology Process Engineering Center**

Biotechnology Process Engineering Center

Room 20A-207

Cambridge, MA 02139

Degrees Offered: None

Year of Initiation: 1985

<sup>a</sup>Survey information not provided by program to OTA

<sup>a</sup>The Department of Applied Biological Sciences at the Massachusetts Institute of Technology is being phased out.

\*Metropolitan College  
 Boston University  
**Biotechnology Program**  
 755 Commonwealth Ave.  
 Boston, MA 02215  
 Degrees offered: A.A.S.  
 Year of Initiation: 1987

Tufts University  
**Biotechnology Engineering Center**  
 Pearson Building P-103  
 Medford, MA 02155  
 Degrees offered: B.S./M.S., MS., Ph.D. in  
 Biochemical/Chemical Engineering; Certificate  
 program in biotechnology processing  
 Year of Initiation: 1986

Worcester polytechnic Institute  
**Biotechnology**  
 Department of Biology and Biotechnology  
 Worcester, MA 01609  
 Degrees offered: B.S. and M.S. in biotechnology  
 Year of Initiation: 1982

#### Michigan

Ferris State College  
**Biotechnology Emphasis, B. S., Applied Biology**  
 Department of Biological Sciences  
 Big Rapids, MI 49307  
 Degrees Offered: B. S., Applied Biology  
 Year of Initiation: 1988

#### Minnesota

University of Minnesota  
**Program in Microbial Engineering**  
 Box 196  
 School of Medicine  
 420 Delaware St., S.E.  
 Minneapolis, MN 55455  
 Degrees Offered: M.S. in Microbial Engineering  
 Year of Initiation: 1984

University of Minnesota  
**Institute for Advanced Studies in Biological  
 Process Technology**  
 240 Gortner Laboratory  
 1479 Gortner Ave.  
 St. Paul, MN 55108  
 Degrees Offered: Ph.D. minor in Biological Process  
 Engineering is under development  
 Year of Initiation: 1985

#### Montana

Montana State University  
**Institute for Biological and Chemical Process  
 Analysis**  
 Bozeman, Montana 59717  
 Degrees Offered: None  
 Year of Initiation: 1983

#### Nebraska

Central Community College  
**Biotechnology Program**  
 P.O. Box 1024  
 Hastings, NE 68901  
 Degrees Offered: A.A.S.  
 Year of Initiation: 1986

#### New Jersey

\*Rutgers University  
**Biochemical Engineering**  
 Department of Chemical and Biochemical  
 Engineering  
 P.O. Box 909  
 Piscataway, NJ 08854  
 Degrees Offered: B. S., M. S., and Ph.D. in  
 Biochemical Engineering  
 Year of Initiation: 1970

\*Rutgers University  
**Certificate in Biotechnology**  
 Department of Chemical and Biochemical  
 Engineering  
 P.O. Box 909  
 Piscataway, NJ 08855  
 Degrees offered: Certificate in Biotechnology  
 Year of Initiation: 1982

\*Rutgers University  
**Center for Advanced Biotechnology and  
 Medicine**  
 P.O. Box 759  
 Piscataway, NJ 08854  
 Degrees Offered: None  
 Year of Initiation: 1986

Rutgers University  
**Short Courses in Biotechnology**  
 Cook College  
 Office of Continuing Professional Education  
 P.O. BOX 231  
 New Brunswick, NJ 08903  
 Degrees Offered: None  
 Year of Initiation: 1984

\*Survey Information not provided by program to OTA

Rutgers University  
**Biotechnology**  
 Cook College  
 Department of Biochemistry and Microbiology  
 Lipman Hall  
 New Brunswick, NJ 08903  
 Degrees Offered: B.S. in Biotechnology (pending approval)  
 Year of Initiation: 1986

**New York**

Cornell University  
**Cornell Biotechnology Program**  
 Baker Laboratory  
 Ithaca, NY 14853  
 Degrees offered: None  
 Year of Initiation: 1983

\*Monroe Community College  
**Biotechnology Program**  
 1000 E. Henrietta Rd.  
 Rochester NY 14623  
 Degrees Offered: A.A.S.  
 Year of Initiation: 1983

Rochester Institute of Technology  
**Biotechnology**  
 Department of Biology  
 One Lomb Memorial Dr.  
 Rochester, NY 14623  
 Degrees Offered: B.S. in Biotechnology  
 Year of Initiation: 1983

\*State University of New York, Alfred  
**Biotechnology Program**  
 Alfred, NY 14802  
 Degrees Offered: A.A.S.  
 Year of Initiation: 1986

\*State University of New York, Buffalo  
**Center for Biotechnology**  
 School of Medicine  
 462 Grieder St.  
 Buffalo, NY 14215  
 Degrees offered: None  
 Year of Initiation: 1984

State University of New York, Fredonia  
**Bachelor of Science Major, Recombinant Gene Technology**  
 Department of Biology  
 Fredonia, NY 14063  
 Degrees Offered: B.S., Recombinant Gene Technology  
 Year of Initiation: 1983

State University of New York, Plattsburgh/Miner  
 Institute  
 In Vitro Cell Biology and Biotechnology  
 Miner Center  
 Chazy, NY 12921  
 Degrees Offered: B.S. and M.A.  
 Year of Initiation: 1980

State University of New York, Stony Brook  
 Center for Biotechnology  
 130 Life Sciences Bldg.  
 Stony Brook, NY 11794  
 Degrees offered: None  
 Year of Initiation: 1983

**North Carolina**

\*North Carolina State University  
 Biotechnology Program  
 Raleigh, NC 27695  
 Degrees offered: Ph.D. minor in Biotechnology  
 Year of Initiation: 1982

Technical College of Alamance  
 Biotechnology  
 P.O. Box 623  
 Haw River, NC 27258  
 Degrees Offered: A.A.S.  
 Year of Initiation: 1986

University of North Carolina  
 Program in Molecular Biology and  
 Biotechnology  
 Room 402 Swing Bldg.  
 Chapel Hill NC 27514  
 Degrees offered: None  
 Year of Initiation: 1981

**North Dakota**

North Dakota State University  
 Biotechnology Academic Program  
 Box 5516  
 Fargo, ND 58105  
 Degrees Offered: B.S. in Biotechnology  
 Year of Initiation: 1986

**Ohio**

Case Western Reserve University  
 Concentration in Biotechnology and Genetic  
 Engineering  
 Department of Biology  
 Cleveland, OH 44106  
 Degrees Offered: B.A./B.S., M.S., Ph.D.  
 Year of Initiation: 1984

\*Ohio State University  
 Ohio State Biotechnology Center  
 Rightmire Hall  
 1060 Carjack Rd.  
 Columbus, OH 43210  
 Degrees Offered: Not yet formulated  
 Year of Initiation: 1987

**Pennsylvania**

Cedar Crest College  
 Genetic Engineering Technology Program  
 Allentown, PA 18104  
 Degrees Offered: B.S. major in Genetic Engineering  
 Year of Initiation: 1983

Lehigh University  
 Applied Biological Science (M.S.)  
 Center for Molecular Bioscience & Biotechnology  
 570 A Whitaker Labs  
 Bethlehem, PA 18015  
 Degrees offered: Ph.D. & M.S. Biochemical  
 Engineering  
 Year of Initiation: 1987

Pennsylvania State University  
 Penn State Biotechnology Institute  
 532 Biotechnology Headquarters Bldg.  
 University Park, PA 16802  
 Degrees Offered: None specifically in  
 biotechnology  
 Year of Initiation: 1985

\*University of Pittsburgh  
 Center for Biotechnology and Bioprocess  
 Engineering  
 911 William Pitt Union  
 Pittsburgh, PA 15260  
 Degrees Offered: None  
 Year of Initiation: 1987

**Tennessee**

University of Tennessee  
 Biotechnology  
 M303 Wakers Life Sciences Bldg.  
 Knoxville, TN 37996  
 Degrees Offered: M.S. in Life Sciences -  
 Biotechnology  
 Year of Initiation: 1985

**Texas**

Texas A & M University  
 Agricultural Biotechnology  
 Department of Biochemistry & Biophysics  
 College Station, TX 77843  
 Degrees Offered: None specifically in  
 biotechnology  
 Year of Initiation: 1984

**Utah**

Utah State University  
 Center of Excellence in Biotechnology  
 Logan, UT 84322-4430  
 Degrees Offered: None specifically in  
 biotechnology  
 Year of Initiation: 1987

**Virginia**

Old Dominion University  
 Biotechnology  
 Center for Biotechnology  
 Norfolk, VA 23508  
 Degrees offered: MS. in Biotechnology  
 Year of Initiation: 1987

**Wisconsin**

Madison Area Technical College  
 Biotechnology Laboratory Technician Program  
 3550 Anderson St.  
 Madison, WI 53704  
 Degrees Offered: A.A.S.  
 Year of Initiation: 1987

“Survey information not provided by program to OTA

**University of Wisconsin  
University of Wisconsin Biotechnology Center  
1710 University Ave  
Madison, WI 53705  
Degrees offered: None  
Year of Initiation: 1984**

**\*University of Wisconsin  
University of Wisconsin Bioprocess and  
Metabolic Engineering Program  
Department of Chemical Engineering  
Madison, WI 53706  
Degrees offered: None  
Year of Initiation: 1987**

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<sup>1</sup>“Survey information not provided by program to OTA.