

CELL/MOLECULAR SUMMER INTERNSHIPS

Internship programs targeted at students intending to pursue a career in research via a Ph.D. or M.D./Ph.D. program. (Note that many internship programs listed under Cell/Molecular internships include research in clinical areas.)

Albert Einstein College of Medicine

Summer Undergraduate Research Program

Research in: anatomy & structural biology, biochemistry, cell biology, developmental & molecular biology, microbiology & immunology, molecular genetics, molecular pharmacology, neuroscience, pathology, and physiology & biophysics.

Contact: SURP, Graduate Division, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Belfer 201, Bronx, NY 10461

Allegheny County Pennsylvania Medical Examiner's Office

The Medical Examiner's function is to investigate the circumstance, cause and manner of sudden or unexpected, medically unattended, suspicious and/or violent deaths. Interns do investigative work alongside experienced forensic investigators and are exposed to post mortem examinations with pathologists and technicians, forensic photo documentation with photographers, and legal aspects with solicitors.

Contact: Allegheny County Medical Examiner's Office, 542 Fourth Avenue, Pittsburgh, PA 15219

American Society for Microbiology

Undergraduate Research Fellowships

The Office of Education and Training at the American Society for Microbiology offers two fellowships: ASM Undergraduate Research Fellowship (URF), and for students from minority groups underrepresented in the sciences, the ASM Microbiology Undergraduate Research Fellowship (MURF).

Arizona State University Center for Bioenergy and Photosynthesis

Research in photosynthesis in areas including bioenergy production, molecular biology, plant biology, biochemistry, microbiology, chemistry, and biophysics.

Contact: Center for Bioenergy and Photosynthesis, Arizona State University, P.O. Box 871604, Tempe, AZ 85287

Argonne National Laboratory

Student Research Participation Program

Research in biophysics, genomics, structural biology, environmental sciences, health sciences, and industrial biotechnology.

Contact: Lisa Reed, Division of Educational Programs, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439

Baylor College of Medicine

Summer Medical And Research Training Program

Research in biochemistry, biomedical engineering, cancer biology, cardiovascular sciences, cell biology, computational biology, developmental biology, gene therapy, immunology, microbiology, molecular biophysics, molecular genetics, molecular pathobiology, neuroscience, nutrition, pediatrics, pharmacology, physiology, structural biology, and virology.

Contact: The SMART Program, Baylor College of Medicine, Graduate School of Biomedical Sciences, One Baylor Plaza, Houston, TX 7703

Boston University

Fundamental Biological Chemistry REU

Research in basic chemical science projects that address fundamental questions in biological systems

This program is open to students who have completed their freshman year of college.

Contact: Chemistry REU, The Chemistry Department, Boston University, 590 Commonwealth Avenue, Boston, MA 02215.

Boston University

Undergraduate Research Opportunities Program

Research areas may include archaeobotany, ecology, evolution, animal behavior, bioinformatics, medicinal chemistry, endocrinology, geriatric medicine, healthcare analysis, immunology, molecular biology, cell biology, parasitology, pathology, ophthalmology, pharmacology, neuroscience, and psychology.

Contact: UROP, Boston University, 143 Bay State Road, Boston, MA 02215.

Boston University

Summer Undergraduate Research Fellowship

Research areas may include archaeobotany, ecology, evolution, animal behavior, bioinformatics, medicinal chemistry, endocrinology, geriatric medicine, healthcare analysis, immunology, molecular biology, cell biology, parasitology, pathology, ophthalmology, pharmacology, neuroscience, and psychology.

This program is for students from racial/ethnic minority groups underrepresented in the sciences.

Contact: SURF, Boston University, 143 Bay State Road, Boston, MA 02215.

Boyce Thompson Institute and Cornell University

Undergraduate Internships in the Plant Sciences

Laboratory and field work in plant sciences, including plant breeding, computational biology and bioinformatics, plant pathology, molecular biology, genetics, cell biology, and biochemistry of plants.

Preference will be given to women and students from minority groups underrepresented in the sciences.

Contact: Outreach Coordinator, Boyce Thompson Institute, Tower Road, Ithaca, NY 14853

Bradley University

Summer REU Program

Research program will develop a dynamic carbon budget model for a typical Midwestern forest watershed system. Participants will be exposed to molecular, physiological, organismal, community and ecosystem approaches to plant physiological and community ecology, ecosystem and soil ecology, genetic analysis of microbial community composition, comparative and integrative animal physiology, and soil and systems modeling.

Preference will be given to women and students from underrepresented minority groups.

Contact: Summer REU Program, Bradley University Department of Biology, 1401 Bradley Avenue, Peoria, IL 61625

Shawn Robinson (Biology '03) did an internship at Bradley University in Summer 2001.

Brookhaven National Laboratory

Science Undergraduate Laboratory Internship

Internships in life sciences, math, applied math, physics, engineering, and scientific journalism. The Biology Department has research projects on DNA damage recognition and repair, plant and microbial genomics and proteomics, enzyme engineering, and the

regulation of gene expression. The Medical Department includes the Center for Imaging & Neurosciences and research projects aimed at developing new nuclear medicine treatments and diagnostic agents, producing medical isotopes for clinical use, and understanding and treating cancer and heart disease. The Environmental Sciences Department includes studies of the effect of excess atmospheric carbon dioxide on different ecosystems and bioremediation methods.

Contact: SULI, Science Education Center, Building 438, BNL, P.O. Box 5000, Upton, NY 11973

California Institute of Technology

Summer Undergraduate Research Fellowship

Research includes environmental sciences, computation and neural systems, bioengineering, biotechnology, biophysics, neuroscience, and molecular biology.

Contact: Student-Faculty Programs, California Institute of Technology, Mail Code: 08-31, Pasadena, CA 91125

California State University at Fullerton

Summer Research Experiences for Undergraduates

Research in analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry.

Contact: NSF-REU Director, California State University at Fullerton, Chemistry & Biochemistry Department, Fullerton, CA 92834

Carnegie Mellon University

NSF Research Experiences for Undergraduates

Research in molecular biology, genetics, cell biology, developmental biology, biochemistry, biophysics, neuroscience, bioinformatics, and computational biology through the Mentored, Cutting Edge Research Experiences in the Molecular Biosciences site.

Contact: Research Experiences for Undergraduates, Department of Biological Sciences, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213

Case Western Reserve

Summer Program in Undergraduate Research

Research in the areas of anatomy, anthropology, biochemistry, biology, biomedical engineering, cell biology, chemistry, environmental health sciences, genetics, molecular biology, microbiology, neurosciences, nutrition, pathology, pharmacology, physiology, psychiatry, biophysics, and psychology. The Biology Department also sponsors Great Lakes Studies, in which a team of undergraduates will work together to characterize tributary habitat and patterns of use of habitat by Lake Erie fish populations.

Contact: Julia Brown, Department of Biology-SPUR, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106

Centers for Disease Control and Prevention

CDC Student Research Participation

Research at the world-famous CDC on infectious diseases, environmental health, epidemiology, and occupational health at six centers in Atlanta and elsewhere.

Contact: Linda McCamant, Group Manager, Oak Ridge Institute for Science and Education, PO Box 117, Oak Ridge, TN 37831

Joshua Courtney (Biology '01), Jill Montgomery (Biology '02), Brooke Helfer (Biology '04) and Emily Lapkowicz (Biology '04) have all done research internships at the CDC. For more information, contact Dr. Dryden at x6116 or rdryden@washjeff.edu

Center for Neuroscience University of Pittsburgh

Summer Undergraduate Research Program

Research in neuroanatomy, neurophysiology, molecular biology, brain imaging, computer simulations, neuropsychology, or behavioral assessments.

The program particularly seeks applicants from liberal arts colleges and other academic institutions with limited neuroscience research opportunities.

Cincinnati Children's Hospital

Summer Undergraduate Research Fellowship

Basic and clinical research in the department of Pediatrics in the College of Medicine, including developmental biology, congenital disorders, inherited diseases, cancer, and immunology.

Contact: Cincinnati Children's Hospital Medical Center, 3333 Burnet Avenue, Cincinnati, Ohio 45229

Clemson University

Research Experience for Undergraduates in Molecular Genetics and Biochemistry

Research in genetics and biochemistry including, but not limited to, protein structure-function relationships, basic developmental processes in plant and animal systems, signal transduction, plant and animal pathogens and high-throughput genomics.

Students from minority groups underrepresented in the sciences and from small liberal arts colleges are particularly encouraged to apply.

Contact: Department of Genetics and Biochemistry, 100 Jordan Hall, Clemson University, Clemson, SC 29634

Cold Regions Research and Engineering Laboratory

Internships in Global Climate Change

Research in chemistry, physics and biology of global climate change, in areas including botany, microbiology, and ecology at the Army Corps of Engineers' CRREL.

Contact: Susan Koh, ERDC-CRREL, 72 Lyme Road Hanover, New Hampshire 03755

Cold Spring Harbor Laboratory Watson School of Biological Sciences

Summer Undergraduate Research Program

Research on cancer biology, neuroscience, plant biology, cellular and molecular biology, genetics, macromolecular structure, and bioinformatics at Cold Spring Harbor Laboratory - one of the premier research institutions in the United States.

Contact: Undergraduate Research Program, Watson School of Biological Sciences, Cold Spring Harbor Laboratory, One Bungtown Road, Cold Spring Harbor, NY 11724

Colorado State University

Summer Program in Molecular Biosciences

Research on protein structure and function, transcriptional mechanisms, molecular neurobiology, regulation of gene expression in a chromatin context, cancer biology, plant biology, embryonic development, diabetes, cytoskeleton dynamics, and virology.

Students from minority groups underrepresented in the sciences and from small liberal arts colleges are encouraged to apply.

Contact: Summer Undergraduate Research Program, Colorado State University, Department of Biochemistry & Molecular Biology, Fort Collins, CO 80523

Colorado State University

Summer Research Program on Mind and Brain

Research on sensation and perception, behavioral neuroscience, and cognitive

psychology.

Students from minority groups underrepresented in the sciences and from small liberal arts colleges are encouraged to apply.

Contact: Summer Research Program, Colorado State University, Department of Psychology, Fort Collins, CO 80523

Columbia University/Barnard College

Amgen Scholars Summer Research Program

Research in biochemistry, biomedical engineering, cell biology, genetics and development, microbiology, molecular biophysics, neuroscience and psychology, physiology, and clinical areas including anesthesiology, otolaryngology, nephrology, neurology, pediatrics, pharmacology, psychiatry, and surgery.

Contact: Dr. Alice Hecklen, MC2454, Columbia University, 1212 Amsterdam Avenue, New York, NY 10027

Dartmouth College

Summer Undergraduate Research Fellowships

Research in biochemistry, biotechnology, cell biology, developmental biology, immunology, molecular pathogenesis and host-microbe interactions, neurobiology, regulation of gene expression, signal transduction and cellular metabolism, and biophysics and structural biology.

Students from minority groups underrepresented in the sciences and students with disabilities are encouraged to apply.

Contact: Summer Undergraduate Research Fellowships, Cellular and Molecular Biology Program, Dartmouth College, Hanover, NH, 03755

Stella Rojas (Psychology '07) did an internship in this program after her freshman year in Summer 2004.

Delaware State University

Undergraduate Research in Molecular Genetics and Genomics

Research internships plant molecular biology and genomics.

Contact: REU Program, Department of Agriculture and Natural Resources, 1200 N DuPont Highway, Dover, DE 19901

Drexel University College of Medicine

Summer Undergraduate Research Fellowships

Research internships in biochemistry, molecular and cell biology, neuroscience, microbiology, immunology, pathobiology, pharmacology and physiology.

Contact: Academic Coordinator, The Office of Biomedical Graduate, Postgraduate and Professional Studies, 2900 Queen Lane, Suite #239, Philadelphia, PA 19129

Donald Danforth Plant Science Center

Research Experiences for Undergraduates

Research internships in plant sciences are available in cell biology, molecular biology, structural biology, biochemistry, microbiology, developmental biology, genetics, and pathology of plants.

Contact: Donald Danforth Plant Science Center, 975 North Warson Road, St. Louis, MO 63132

Duke Institute for Genome Sciences and Policy

Summer Fellowships

Research in genomics in the areas of population, cardiovascular, cancer, computational, environmental, evolutionary, structural or functional genomics. In addition participants will be exposed to topics in genome ethics and policy.

Contact: Undergraduate Programs Coordinator, Institute for Genome Sciences and Policy, 101 Science Drive, Duke University CIEMAS, Durham, NC 27708

Duke University

Mechanisms of Behavior Program

Research in integrative neurobiology, systems neurobiology, or animal behavior.

Contact: Undergraduate Neuroscience Program, □Department of Psychological & Brain Sciences, □Duke University, Box 91050 □Durham, NC 27708

Duke University

Summer Research Opportunity Program

Research in the departments of Biochemistry, Botany, Cell Biology, Genetics, Immunology, Microbiology, Molecular Cancer Biology, Neurobiology, Pathology, Pharmacology, and Zoology.

Contact: SROP Program, 2111 Campus Drive, Box 900700, Duke University, Durham, NC 27708

Duquesne University

Undergraduate Research Program Research in analytical biochemistry, computational biochemistry, physiology, enzymology, biophysics, developmental biology, molecular biology, microbiology, cell biology and genomics.

Contact: Undergraduate Research Program, Bayer School of Natural and Environmental Sciences, Duquesne University, 100 Mellon Hall, Pittsburgh, PA 15282

Emory University

Summer Undergraduate Research Experience

Research in: anthropology, human genetics, neurophysiology and neurobiology, behavioral biology, human physiology and pathology, nutrition, biochemistry and cell biology, immunology, paleobiology, pharmacology, developmental biology, microbiology and molecular pathology, evolution and ecology, molecular genetics and molecular evolution, psychobiology and psychology, epidemiology, and rehabilitation medicine/physical therapy.

Contact: SURE Program, c/o Center for Science Education, Emory University, 1399 Oxford Road, Atlanta, GA 30322

Fordham University and the Louis Calder Center - Biological Station

Calder Summer Undergraduate Research

Research in forest ecology, limnology, wildlife ecology, microbial ecology. Lyme disease, insect-plant interactions, evolutionary ecology, and effects of urbanization on ecosystem processes.

Contact: CSUR-REU program, Louis Calder Center - Biological Field Station, Fordham University, Box 887, Armonk, NY 10504

Fred Hutchinson Cancer Research Center

Summer Undergraduate Research

Research in cellular biology, developmental biology, oncogenes, molecular immunology, molecular biology, membrane biology, genetics, and virology.

Contact: Summer Undergraduate Research, Fred Hutchinson Cancer Research Center, 1100 Fairview Avenue North, P.O. Box 19024, Seattle, WA 9810

Genentech

Internship Program

Research at the world's first - and most famous - biotechnology company. The company uses recombinant DNA technology to manufacture drugs to treat human disease and metabolic disorders. Internships may be in the fields of Antibody Technology, BioOrganic Chemistry, Bioinformatics, Biostatistics, Cell Biology and Technology, Cell Culture and Fermentation R&D, Endocrinology, Environmental Health and Safety, Fermentation, Health Economics, Immunology, Library and Information Services, Molecular Biology, Molecular Oncology, Pathology, Pharmacokinetics and Metabolism, Protein Engineering, Small Molecule Pharmacology, Thrombolytics Research or Toxicology.

Contact: Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080

George Washington University

Research Experiences for Undergraduates

Research areas include cell biology, molecular biology, developmental biology, neuroscience, aging, immunology, protein folding, and proteomics.

Contact: Department of Biological Sciences, 2023 G St., NW, Lisner Hall, Room 340, Washington, DC 20052

Georgia Institute of Technology School of Biology

Aquatic Chemical Ecology

Research in biological and physical transformations of chemicals in aquatic ecosystems; sensory physiology, biology, and ecology of chemical communication across animal taxa; and ecological roles of chemicals in aquatic environments. Contact: ACE Program, School of Biology, Georgia Tech, 310 Ferst Drive, Atlanta, GA 30332

Georgia Southern University

Research Experiences for Undergraduates

Research in chemistry and biology including rational drug design, physiology, molecular evolution, and genetics.

Contact: Chemistry & Biology REU Program, PO Box 8064, Georgia Southern University, Statesboro, GA 30460

GlaxoSmithKline Pharmaceuticals

Summer Talent Identification Program

Internships in biology and chemistry with pharmaceutical company giant GlaxoSmithKline in the areas of clinical, environmental health and safety, marketing, sales, and scientific (research). Specific scientific areas in biology are Toxicogenomics, Cellular Genomics and Discovery Genetics, Lab and Animal Sciences, and Bioinformatics. Internships are at GSK sites in Raleigh, North Carolina and King of Prussia, Pennsylvania.

Grice Marine Laboratory

Physiology and Cell Biology of Marine Organisms

Research on environmental bioindicators, algal physiology, acid-base physiology, respiratory physiology, immunology, population genetics, and evolutionary biology of marine organisms.

Contact: Fort Johnson Summer Research Program, Grice Marine Laboratory, 205 Fort Johnson Road, Charleston, SC 29412

Harvard Medical School

Four Directions Summer Research Program

Students will do basic science research with a faculty member from the medical school.

This program is for Native American students.

Contact: FDSRP, Brigham and Women's Hospital, □Office for Multicultural Faculty Careers, 1620 Tremont Street 3-014.04, □Boston, MA 02120

Harvard Medical School

Summer Honors Undergraduate Research Program

Research in the biomedical sciences, including cellular and developmental biology, cell cycle regulation, cardiac and cardio-pulmonary functions and pathology, studies of blood cells, cancer biology, endocrinology, immunology, microbiology, molecular biology and genetics, receptor structure and functions, transmembrane signaling mechanisms, study of clotting mechanisms, and virology.

Contact: Summer Undergraduate Research Program, Division of Medical Sciences, Harvard Medical School, 260 Longwood Avenue, Boston, MA 02115

This program is for students from groups underrepresented in the sciences who have had at least one term of previous research experience.

Harvard Medical School

Undergraduate Immunology Summer Program

Research in immunology.

Contact: Harvard Graduate Program in Immunology, Division of Medical Sciences, Harvard Medical School, Boston, MA 02115

Harvard Stem Cell Institute

Summer Internship Program

Research on diabetes, blood diseases and neurodegenerative diseases and fundamental research in developmental biology, molecular and cellular biology, and tissue engineering.

Contact: Harvard Stem Cell Institute, 42 Church Street, Cambridge, MA 02138

This program gives preference to students from small liberal arts colleges and other institutions with limited research opportunities.

Harvard University, FAS Center for Systems Biology

Undergraduate Summer Research Internships

Research in genetics, cell biology, neuroscience, animal behavior and evolution using cutting-edge genomics or bioinformatics techniques.

Contact: FAS Center for Systems Biology, Bauer Laboratory, 7 Divinity Avenue, Cambridge, MA 02138

HHMI-Janelia Farm Research Campus

HHMI-Janelia Undergraduate Scholars

Research at the HHMI's state-of-the-art biomedical research complex near Washington, D.C. Research focus is on information processing by neuronal circuits and development of imaging technologies and computational methods for image analysis.

Contact: HHMI-Janelia Undergraduate Scholars, Janelia Farm Research Campus, 19700 Helix Drive, Ashburn, VA 20147

Hope College

Summer Hope Academic Research Program

Research in genetics, cell biology, molecular biology, plant biology, ecology, environmental studies, and science education.

Contact: REU Applications, Hope College Biology Department, 35 E. 12th St., PO Box 9000, Holland, MI 49422

Indiana University

Research Experiences for Undergraduates in Molecular Biology and Genetics

Research in regulation of gene expression, bacterial and eukaryotic cell division, catalytic RNA, protein-protein interactions, hormone action, transmembrane lipid transporters (flippases) and lipid bilayer organization in diabetes and cardiovascular disease, eukaryotic transcription and translation, microtubule cytoskeleton, DNA repair pathways, cell-cell communication and body pattern formation, metal ions in biological systems, protein and membrane trafficking, development of *C. elegans*, intracellular movements in eukaryotes, plant physiology and disease resistance, molecular plant phylogeny, reproductive barriers between plant species, genomic processes that facilitate speciation, development and evolution, evolution of complex characters.

Contact: REU Coordinator, Indiana University, Department of Biology, 1001 East Third Street, Bloomington, IN 47402

Indiana University Simon Cancer Center

Summer Research Program

Research in breast cancer, cancer control (prevention and early detection), experimental and developmental therapeutics, and hematopoiesis, microenvironment and immunology.

Contact: IUPUI, 620 Union Drive, Union Building 207, Indianapolis, IN 46202

This program is for students from groups underrepresented in the sciences.

Indiana University-Purdue University Indianapolis

Summer Research Opportunity Program

Research in molecular biology, biochemistry, immunology, cell biology, neuropharmacology.

Contact: IUPUI, 620 Union Drive, Union Building 207, Indianapolis, IN 46202

This program is for students from groups underrepresented in the sciences.

Indiana University School of Medicine, Wells Center for Pediatric Research

Summer Internship Program

Research in basic science and treatment of devastating diseases that affect children.

Contact: Indiana University School of Medicine, Wells Center, 702 Barnhill Drive, Indianapolis, Indiana 46202

Indiana University School of Medicine Evansville

Summer Undergraduate Research Experience

Research in basic science and treatment of diseases.

Contact: Indiana University School of Medicine – Evansville, SURE Program Coordinator, 8600 University Boulevard, Evansville, IN 47712

Institut Pasteur

Paul W. Zuccaire Undergraduate Internship Program

Research at the world-renowned Institut Pasteur in Paris, France focuses on public health, primarily through research on infectious diseases such as AIDS, malaria, tuberculosis, SARS, viral cancers, and many others.

Brittany Anderton (CMBiology '09) did an internship at the Institut Pasteur in Summer 2008.

Iowa State University

Program for Women in Science and Engineering

Research hosted by faculty in the following departments: Agricultural Biochemistry;

Agriculture and Biosystems Engineering; Agronomy; Animal Science; Biochemistry, Biophysics, and Molecular Biology; Chemical and Biological Engineering; Ecology, Evolution, and Organismal Biology; Entomology; Food Science and Human Nutrition; Genetics, Development, and Cell Biology; and Plant Pathology.

Contact: Program for Women in Science and Engineering, Iowa State University, 218 Carver Hall, Ames, IA 50011

This program is open to women after their freshman year.

Iowa State University

Research Experience in Molecular Biotechnology and Genomics

Research in protein engineering, molecular genetics, biotechnology and genomics of plants and animals.

Contact: NSF Summer Program in Molecular Biotechnology and Genomics, Center for Integrated Animal Genomics, Iowa State University, Ames, Iowa 50011

J. Craig Venter Institute

Internship Program

Research at this – perhaps the most cutting-edge genomics center in the world – focuses on microbial and parasite genomics, genomic medicine with an emphasis on cancer genomics and human genome re-sequencing and analysis; mammalian, plant and viral genomics; environmental genomic analysis with an emphasis on microbial biodiversity, ecology, and evolution; use of molecular and genomic methods to develop biological sources of clean energy; synthetic genome development; educational outreach, and policy research on the ethical, legal, and economic issues associated with genomic science and technology.

Contact: J. Craig Venter Institute, Summer Internship Program, Training and Education Department, 9704 Medical Center Drive, Rockville, MD 20850

Jackson Laboratory

Summer Student Program

Research internships at this internationally recognized center for mammalian genetic research in biomedical sciences and mouse genetics, specifically molecular, developmental, genetic, biochemical, and immunological mechanisms related to normal growth and development and human disease.

Contact: Summer Student Program, Education Office, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609

James Madison University, Bridgewater College, and Eastern Mennonite University Shenandoah Valley Partnership in Molecular Biology

Research using the tools and techniques of molecular biology to address questions at a wide range of levels including genes, cells, tissues, organisms and ecosystems.

Contact: Department of Biology, MSC 7801, James Madison University, Harrisonburg, VA 22807

Johns Hopkins University

Summer Undergraduate Research Experience

Research in biochemistry, genetics, cell biology, developmental biology, neurobiology. *Students from minority groups underrepresented in the sciences and other disadvantaged backgrounds that have completed two or more years of college are encouraged to apply.*

Contact: SURE, Department of Biology, 3400 N. Charles Street, Johns Hopkins University, Baltimore, Maryland 21218

Johns Hopkins School of Medicine

Summer Internship Program

Research in biomedical research and/or public health research laboratories, in the Basic Science Institute departments of Biological Chemistry; Biomedical Engineering; Biophysics and Biophysical Chemistry; Cell Biology; Molecular Biology and Genetics; Neuroscience; Pharmacology and Molecular Sciences, Physiology, in Pulmonary and Critical Care Medicine, and in Public Health.

Students from minority groups underrepresented in the sciences and other disadvantaged backgrounds that have completed two or more years of college are encouraged to apply.

Contact: Summer Internship Program, 1830 East Monument Street, Johns Hopkins University School of Medicine, Baltimore, Maryland 21205

Dr. DeBerry received her Ph.D. from the Department of Biological Chemistry at Johns Hopkins School of Medicine - contact her for more information at cdeberry@washjeff.edu or x6120.

Kentucky Biomedical Research Infrastructure Network

Undergraduate Summer Research Opportunities

Research at either the University of Louisville or the University of Kentucky, in gene-based research and/or bioinformatics.

Contact: Dr. Dawn Anderson, Department of Biology, Berea College, Berea, KY 40404

Lehigh University

Biosystems Dynamics Summer Institute

Interdisciplinary team research in genomics, bioinformatics, gene expression, behavioral neuroscience, and reproductive biology.

Contact: Biosystems Dynamics Summer Institute, Department of Biological Sciences, Lehigh University, Bethlehem, PA 18015

Los Alamos National Laboratory

Undergraduate Internships

Research in life sciences, biomedical sciences, health sciences, and environmental sciences. Of special interest to cell biologists are projects in pulmonary biology, radiation biology, flow cytometry, and the Laboratory's leadership role in development of the Human Genome Project. The laboratory is also very active in science education.

Contact: Student Program Coordination STB/EPO, PO Box 1663, MS M706, Los Alamos National Laboratory, Los Alamos, NM 87545

Louisiana State University Health Sciences Center- Shreveport

Summer Undergraduate Pharmacology Research Program

Research in pharmacology, toxicology, and neuroscience.

Contact: Department of Pharmacology, Toxicology and Neuroscience, LSU Health Sciences Center-Shreveport, 1501 Kings Highway, P.O. Box 33932, Shreveport, LA 71130

Loyola University Chicago

Bioinformatics NSF REU

Research in bioinformatics.

Contact: Bioinformatics NSF REU, Department of Biology, Loyola University Chicago, 6525 N. Sheridan Road, Chicago, IL 60626

Loyola University Chicago

Undergraduate Summer Research Program

Research in the Department of Microbiology and Immunology at the Stritch School of

Medicine in areas including cell biology, molecular virology, molecular genetics, tumor immunology, molecular immunology, and molecular microbiology.

Contact: Director of Undergraduate Summer Research Program, Department of Microbiology and Immunology, Loyola University Medical Center, 2160 S. First Avenue, Maywood, IL, 60153

Marquette University

Summer Research Program in Biology

Research in microbiology, molecular biology, cell biology, developmental biology, plant biology, vertebrate/invertebrate physiology and neurobiology.

Contact: Department of Biological Sciences, Wehr Life Sciences Building, Marquette University, PO Box 1881, Milwaukee, WI 53201

Mayo Graduate School

Summer Undergraduate Research Fellowship

Research at the world-renowned Mayo Clinic in biochemistry, immunology, molecular biology, tumor biology, biomedical engineering, molecular neuroscience, and pharmacology.

Contact: Glenda Mueller, Student Recruitment Programs Coordinator, Mayo Graduate School, 200 1st Street SW, Rochester, MN 55902

Medical College of Georgia

Student Training and Research Program

Research in biochemistry, molecular biology, cell biology, anatomy, developmental biology, gene regulation, cell signalling, pharmacology, neuroscience, physiology, vascular biology, cancer, biotechnology and genomic medicine, immunotherapy, proteomics, and toxicology.

Contact: Director, STAR Program, Medical College of Georgia, School of Graduate Studies, STAR Office, CJ2201, 1120 15th Street, Augusta, GA 30912

Medical University of South Carolina

Summer Undergraduate Research Program

Research in biochemistry, molecular biology, biostatistics, bioinformatics, biometry, epidemiology, cancer biology, cardiovascular biology, molecular pharmacology, cell signaling, developmental biology, gene medicine, marine biomedicine, microbiology, immunology, neuroscience, high resolution brain imaging, pathobiology, neurobiology, structural biology, pharmaceutical sciences, physiology, proteomics, and toxicology.

Contact: Summer Undergraduate Research Program, College of Graduate Studies, M.U.S.C., Charleston, SC 29425

Minnesota Department of Public Safety, Forensic Science Laboratory

Epstein-Rhoads Intern Program

Interns will spend a period of time observing the activities of each Forensic Science Laboratory unit. Drug Chemistry/Arson; Toxicology; Microscopy; Biology/DNA; Questioned Documents; Latent Prints; Firearms/Photography; and Breath & Alcohol Testing. During the remainder of the internship the student will work on an assigned project with a staff member.

Contact: DPS Internship Coordinator, MN Department of Public Safety, Human Resources Division, 444 Cedar Street, Suite 135, St. Paul, MN 55101

Montana State University

Research Experience for Undergraduates

Research in cell biology, development, and neuroscience.

This program is for students who have little or no research experience and/or are from

racial/ethnic minority groups underrepresented in the sciences, or are women, students with disabilities, or first-generation college students.

Contact: Cell Biology REU, Department of Cell Biology and Neuroscience, 513 Leon Johnson Hall, Montana State University, Bozeman, MT 59717

Mount Desert Island Biological Laboratory

Research Experience for Undergraduates in Marine Comparative Functional Genomics

Research in marine molecular biology at MDIBL. Researchers use marine models and state of the art cellular and molecular techniques to advance biomedical research in areas including genomics, bioinformatics, toxicology, and physiology.

Contact: MDIBL, REU program, P.O. Box 35, Salisbury Cove, ME 04672

Mount Sinai Medical Center

Summer Undergraduate Research Program

Research in biochemistry, biomathematical sciences, biophysics, cancer biology, cell & membrane biology, anatomy, computational neuroscience, developmental biology, endocrinology, environmental pathobiology, enzymology, gene expression, gene therapy, gene transcription, human genetics, immunobiology, mathematical modeling, microbiology, molecular biology, molecular biophysics, molecular genetics, genomics, neurobiology, neuropharmacology, pathobiology, pharmacology, physical biochemistry, drug design, signal transduction-cell cycle, structural biology, systems physiology, metabolism, virology and oncogenes, computational biomedicine, and sensory transduction.

Contact: Mount Sinai School of Medicine, 5 East 98th Street, New York, NY 10029

NASA

Undergraduate Student Research Program

Research including astrobiology (the search for life elsewhere in the universe) at Ames Research Center, Mountain View, California; space science research aimed at creating new medicines and medical procedures at Marshall Space Flight Center, Huntsville, Alabama; and human space biology at Johnson Space Center, Houston, Texas.

National Cancer Institute Integrative Cancer Biology Program

Summer Cancer Research Fellowship Program

The ICBP focuses on the analysis of cancer as a complex biological system and integrates experimental biology with mathematical and computational modeling to gain new insights into the biology and possible management of cancer. ICBP centers include: Case Western Reserve University; Dana Farber Cancer Institute; Duke University; Lawrence Berkeley National Laboratory; Massachusetts General Hospital; Massachusetts Institute of Technology; The Ohio State University; Stanford University; and Vanderbilt University.

Contact: Coordinator, Summer Fellowship Program, Division of Cancer Biology, National Cancer Institute, 6130 Executive Boulevard, Rockville, MD 20852

National Human Genome Research Institute

Summer Internship Program in Biomedical Research

Internship opportunities in DNA sequencing, cloning, and bioinformatics at this NIH institute.

Contact: Coordinator, Summer Internship Program, National Human Genome Research Institute, National Institutes of Health, Building 12A, Room 1025, 12 South Drive, MSC 5611, Bethesda, MD 20892

National Institutes of Health

Summer Internship Program in Biomedical Research

Virtually every aspect of biomedical research is conducted at the NIH, the nation's premier biomedical research institution.

For specific information about research at each institute of the NIH, go to [Intramural Research Scientific Programs](#) and select links to the NIH institute(s) of interest:

National Cancer Institute (NCI)

National Center for Complementary and Alternative Medicine (NCCAM)

National Eye Institute (NEI)

National Heart, Lung, and Blood Institute (NHLBI)

National Human Genome Research Institute (NHGRI)

National Institute on Aging (NIA)

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

National Institute of Allergy and Infectious Diseases (NIAID)

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

National Institute of Child Health and Human Development (NICHD)

National Institute on Deafness and Other Communication Disorders (NIDCD)

National Institute of Dental and Craniofacial Research (NIDCR)

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

National Institute on Drug Abuse (NIDA)

National Institute of Environmental Health Sciences (NIEHS) (RTP-Raleigh/Durham, NC)

National Institute of Mental Health (NIMH)

National Institute of Neurological Disorders and Stroke (NINDS)

National Library of Medicine (NLM)

Dr. DeBerry did postdoctoral research at the National Cancer Institute (NCI), and supervised an undergraduate summer intern. Contact her for more information about applying for NIH summer internships.

Nick Zane (CMBiology & English '03) had an internship at the NCI in Summer 2002. Rebecca Barrett (CMBiology '07) had an internship at the NIAID in Summer 2006.

New York State Police

Forensic Science Internships

Internships in forensic science in one of the following areas: biosciences (DNA testing), breath testing (alcohol), drug chemistry, forensic identification (fingerprints), toxicology, trace evidence, and many others.

Contact: New York State Police, Human Resources, Building 22, 1220 Washington Avenue, Albany, NY 12226, Attn: Internship Program

New York University, Center for Neural Science

Summer Research Program

Research in developmental neurobiology, sensory neurophysiology, neural basis of behavior, computational neuroscience, psychophysics of vision, and theories of neural networks.

Priority will be given to women and students from minority groups underrepresented in the sciences, and students from small colleges with limited research opportunities.

Contact: NYU Center for Neural Science, 4 Washington Place, New York, NY 10003

New York University School of Medicine

Summer Undergraduate Research Program

Research in biomedical imaging, cellular and molecular biology, computational biology, developmental genetics, medical and molecular parasitology, microbiology, molecular oncology and immunology, molecular pharmacology, neuroscience and physiology,

structural biology, and virology.

Contact: The Sackler Institute of Graduate Biomedical Studies, NYU School of Medicine, 550 First Avenue, New York, NY 10016

North Carolina State Bureau of Investigation

Internship Program

Internships in forensic science in the Crime Laboratory, in one of the following areas: molecular genetics, trace evidence, firearms and tool marks, latent evidence, drug chemistry, or documents.

Contact: North Carolina State Bureau of Investigation, SBI Internship Program Coordinator, Post Office Box 29500, Raleigh, North Carolina 27626

Ohio State University

Molecular Genetics and Biochemistry Research Experience for Undergraduates

Research in genetics, cell biology, biochemistry and developmental biology at the molecular level. Organisms used are viruses, fungi, plants, flies, amphibian, and mammalian cells. All projects share the common approach of genetic engineering.

Contact: Molecular Genetics and Biochemistry REU, 984 Biological Sciences Building, The Ohio State University, 484 W 12th Avenue, Columbus, OH 43210

Ohio University College of Osteopathic Medicine

Summer Undergraduate Research Fellowship

Research areas include: herpes viruses; chloride channel proteins; antimicrobial peptides; nerve cell death; tropical diseases; retroviruses and tumor induction; insect neuropeptides; renal physiology; cardiovascular physiology; sexual selection; expression of neuropeptides in brain development; vertebrate locomotion; plant cell surface proteins; biology of *Trypanosoma* infection; mammalian brainstem structure.

Contact: Director of Admissions, 102B Grosvenor Hall, Ohio University College of Osteopathic Medicine, Athens, Ohio 45701

Penn State Astrobiology Research Center

Astrobiology Summer Program

Research for the Center is "evolution of a habitable planet". Research areas include: The Genomic Record of Earth's Early Biosphere (protein and DNA sequence analysis of geologically significant microorganisms), Laboratory Microbial Simulations: Astrobiological Signatures (biological, biochemical, isotopic, and genetic response of important microbes (methanogens, sulfate-reducers, and cyanobacteria) under simulated Precambrian environments), Modern Analogues of Precambrian Microbial Ecosystem (biochemistry and genetics of microbial communities in polar ice and Fayetteville Green Lake, New York) and Planetary Habitability and Life Detection.

Contact: Dr. Blair Hedges, Astrobiology Summer Program, Mueller Laboratory, The Pennsylvania State University, University Park, PA 16802

Pennsylvania State University College of Medicine

Summer Undergraduate Research Internship Program

Research areas may include anti-viral immunity, ubiquitin-mediated protein degradation, cancer metastasis, regulation of kinase cascades by lipid second messengers, src and ras kinases in cancer, protein structure, molecular cell biology of viruses, cancer risk factors, and minimizing adverse outcomes after pediatric open-heart surgery.

Contact: Director, Office of Graduate Education, Internship Program, Hershey Medical Center, H170, PO Box 850, Hershey, PA 17033

Pepperdine University

Summer Undergraduate Research in Biology

Research in cell biology, developmental biology, molecular biology, neurobiology, and plant ecology.

This program is open to freshmen who will have completed one year of biology courses before the internship.

Contact: Dr. Stephen Davis, Natural Science Division, Pepperdine University, Malibu, CA 90263

Pittsburgh Tissue Engineering Initiative

Summer Internship Program

Research in regenerative medicine, tissue engineering, and biotechnology. PTEI also offers a joint Undergraduate Research Summer Internship Program in Combat Casualty Care and Wound Healing at the U.S. Army Institute for Surgical Research at Ft. Sam Houston, Texas.

Contact: Educational Program Manager, Pittsburgh Tissue Engineering Initiative, Inc., 100 Technology Drive, Pittsburgh, PA 15219

Princeton University

Summer Research Program in Molecular or Quantitative Biology

Research in molecular biology, biochemistry, genetics, virology, immunology, developmental biology, neurobiology, and cancer cell biology.

This program seeks students from groups underrepresented in the sciences and from small liberal arts colleges without extensive research opportunities.

Contact: Summer Undergraduate Research Program, Department of Molecular Biology, Lewis Thomas Laboratory Room 352, Princeton University, Princeton NJ 08544

Greg Ratti (Biochemistry '09) did an internship in this program in Summer 2008.

Princeton University

Summer Undergraduate Research Experience

Research in molecular biology, ecology, and evolutionary biology.

This program seeks undergraduates who are racial/ethnic minorities, who are from socioeconomically disadvantaged backgrounds, or who are from small liberal arts colleges.

Contact: PSURE, The Graduate School, Clio Hall, Princeton, NJ, 08544

Rice University

Research Experience for Undergraduates in Cellular Engineering

Research on metabolic engineering and tissue engineering.

Contact: NSF-REU in Cellular Engineering, Institute of Biosciences and Bioengineering, Rice University, 6100 Main Street, Houston, TX 77005

Rockefeller University

Summer Undergraduate Research Fellowship Program

Research in: biochemistry; structural biology and chemistry; molecular, cell and developmental biology; immunology; virology and microbiology; neuroscience; physics; and mathematical biology.

Contact: Office of Graduate Studies, The Rockefeller University, 1230 York Avenue, New York, NY 10021

Roswell Park Cancer Institute

Summer Research Experiences for Undergraduates

Research experience at the oldest cancer research facility in the world, in molecular biology, cell biology, immunology, biophysics, biochemistry, pharmacology, or bioinformatics.

Priority will be given to students from groups underrepresented in the sciences and to students from small liberal arts colleges without extensive research opportunities.

Contact: Roswell Park Cancer Institute, Summer Program Office, Elm & Carlton Streets, Buffalo, NY 14263

Rutgers/UMDNJ

Research in Science and Engineering

Research projects are available in the following departments at Rutgers: Animal Sciences, Anthropology, Biochemistry, Biomedical Engineering, Bioresource Engineering, Cell and Developmental Biology, Chemical and Biochemical Engineering, Ecology and Evolution, Entomology, Environmental Sciences, Medicinal Chemistry, Microbiology and Molecular Genetics, Neuroscience, Oceanography, Pharmaceutical Science, Pharmacology, Cellular and Molecular, Plant Biology and Toxicology and at UMDNJ: Biomedical Engineering, Biochemistry and Molecular Biology, Cancer Biology, Molecular Genetics, Microbiology and Immunology, Cellular and Molecular Pharmacology, Neuroscience, Physiology & Integrative Biology and Environmental Science/Exposure Assessment.

Priority will be given to students from groups underrepresented in the sciences, including minorities underrepresented in the sciences, economically/educationally disadvantaged backgrounds, first generation to attend college, or disabled.

Contact: RISE at Rutgers/UMDNJ, Graduate School-New Brunswick, Rutgers, the State University of New Jersey, 25 Bishop Place, New Brunswick, NJ 08901

San Jose State University

Research by Undergraduates using Molecular Biology Applications

Research with molecular biology applications in the areas of genetics, molecular evolution, molecular environmental microbiology, cell and molecular developmental biology, and forensics.

This program is open to freshmen students who will have completed one year of college biology and chemistry.

Contact: RUMBA, Department of Biological Sciences, San Jose State University, One Washington Square, Duncan Hall 254, San Jose, CA 95192

Santa Fe Institute

Research Experiences for Undergraduates

Research on complexity analysis in the life sciences including modeling of the immune system, theoretical neurobiology, genetic data analysis, theoretical ecology, and models of protein folding.

Contact: Santa Fe Institute, 1399 Hyde Park Road, Santa Fe, NM 87501

SETI Institute

Summer Research Experience for Undergraduates Program in Astrobiology

Research on biochemistry and the evolution of life on earth (including biologically-accessible carbon and UV-resistant microbes), planetary science and the search for life in the solar system, and astronomy and the search for extraterrestrial intelligence.

Contact: SETI Institute, 515 N. Whisman Road, Mountain View, CA 94043

Sloan-Kettering Cancer Center

Summer Undergraduate Research Program

Research projects at this world-famous cancer center are in developmental biology, cell biology, molecular biology and genetics, gene therapy, stem cells, biochemistry and biophysics, immunology, pharmacology, computational biology, and molecular imaging.

This program is open to freshmen students who will have completed one year of college

biology and chemistry.

Contact: Summer Undergraduate Research Program, Gerstner Sloan-Kettering Graduate School, 1275 York Avenue, New York, NY 10065

Stanford University School of Medicine

Stanford Summer Research Program/Amgen Scholars Program

Research in biochemistry, biomedical informatics, biophysics, cancer biology, developmental biology, epidemiology, genetics, immunology, microbiology, immunology, molecular and cellular physiology, molecular pharmacology, neurosciences, and structural biology.

Contact: Director, Stanford Summer Research Program, 300 Pasteur Drive, Stanford, CA 94305

Texas A&M University

Research Experience for Undergraduates: Expanding Scientific Investigation Through Entomology

Research in entomology including biochemical analyses, DNA sequencing and extraction, analysis of gene expression, molecular marker development, physiological and toxicological bioassays, and stereomicroscopy, compound microscopy, and scanning electron microscopy.

Contact: Department of Entomology, Texas A&M University, TAMU 2475, College Station, TX 77843

Texas A&M University

Summer Undergraduate Research Program in Biochemistry

Research in biochemistry, structural biology, bioinformatics, molecular genetics, genomics, enzymology, or biophysics.

Contact: Summer Undergraduate Research Program in Biochemistry, Department of Biochemistry and Biophysics, Texas A&M University, 2128 TAMU, College Station, TX 77843

The Whitney Laboratory for Marine Bioscience

Research Experience for Undergraduates

Research in cell biology, molecular biology, physiology and neurobiology using marine mammals.

Contact: Undergraduate Coordinator, The Whitney Laboratory for Marine Bioscience, 9505 Ocean Shore Blvd., St. Augustine, FL 32080

The Wistar Institute

Summer Undergraduate Research Fellowship Program

Research in the causes and cures for major diseases, including cancer, cardiovascular disease, autoimmune disorders, and infectious diseases. Cancer programs include Gene Expression and Regulation, Molecular and Cellular Oncogenesis, and Cancer Immunology.

Contact: The Wistar Institute, Training Office, 3601 Spruce Street, Philadelphia, PA 19104

Thomas Jefferson University

Summer Undergraduate Research Program

Research in biochemistry, molecular biology, cell biology, developmental biology, microbiology, tissue engineering and regenerative medicine, genetics, immunology, molecular pharmacology, structural biology, neuroscience, biophysics, and molecular physiology.

Contact: Director of Admissions and Recruitment, Jefferson College of Graduate Studies, Thomas Jefferson University, 1020 Locust Street, Suite M60, Philadelphia, PA 19107

Towson University

Research Experience for Undergraduates in Molecular Ecology

Research using molecular approaches to address ecological questions pertaining to the biology of plants and animals.

Students from minority groups underrepresented in the sciences and from small liberal arts colleges are urged to apply.

Contact: Towson University Department of Biology, 8000 York Road, Towson, MD 21252

Tufts University

Research Experience for Undergraduates Program

Research using integrative approaches to studying recognition systems in cells, organisms, and populations.

Contact: REU Program, Department of Biology, Tufts University, 163 Packard Avenue Medford, MA 02155

Tufts University / Sackler School of Graduate Biomedical Sciences

Summer Research Program for Undergraduate Students

Research in biochemistry, biotechnology, cell biology, developmental biology, genetics, immunology, microbiology, molecular biology, molecular oncology, neuroscience, nutrition, parasitology, pathogenesis, pharmacology, physiology, public health, and virology.

Contact: Sackler School Summer Research Program, Tufts University, 136 Harrison Avenue, Boston, MA 02111

University at Albany

Summer Research Program

Biomedical research at University at Albany, Albany Medical College, New York State Department of Health's Wadsworth Center, Stratton Medical Center, or RPI.

This program is for students from racial/ethnic minorities traditionally underrepresented in the sciences.

Contact: University at Albany Summer Research Program, 1400 Washington Avenue, Albany, New York 12222

University of Alabama at Birmingham

Summer Program in Neuroscience

Research studying the molecular, cellular and network bases of the normal structure and function of the nervous system and major issues in neurological health and disease, including epilepsy, primary brain tumors (gliomas), addiction, Alzheimer's disease, Parkinson's disease, Alexander disease, brain/spinal cord injury, mental retardation and developmental disorders, neurodegeneration, movement disorders, perceptual disorders, stroke, and learning and memory disorders.

Contact: Department of Neurobiology, □University of Alabama at Birmingham. □1825 University Blvd., SHEL 911, □Birmingham, AL, 35294

University of Arizona

Minority Health Disparities Research Opportunities Program

Research opportunities focusing on health issues that affect minority communities in a disproportionate manner, e.g., diabetes, cancer, AIDs, cardiovascular disease, and obesity.

This program is for students from racial/ethnic minority groups underrepresented in the sciences.

Contact: NIH/IMSD Program Coordinator, Graduate College Diversity Programs, 1031 N. Mountain Avenue, Tucson, AZ 85721

University of Arizona

Research Experiences for Undergraduates in Molecular Biosciences

Research in the departments of Biomedical Engineering, Biochemistry and Molecular Biophysics, Chemistry, Entomology, Plant Science, Microbiology and Immunology, Cell Biology and Anatomy, Genomic Analysis and Technology, Ecology and Evolutionary Biology, Pharmacology and Toxicology, Nutritional Sciences, Soil, Water and Environmental Science, and Neurobiology.

Contact: REU for Undergraduates in Molecular Biosciences, Life Sciences South 348, University of Arizona, Tucson, AZ 85721

University of California Berkeley

Summer Research Opportunities

Research in the Departments of Integrative Biology, Molecular and Cell Biology and Plant and Microbial Biology.

Contact: REU Applications, University of California, MCB, 385 LSA, Berkeley, CA 94720

University of California Riverside, Center for Plant Cell Biology

Research Experiences for Undergraduates Program

Systems-based research in plant biology integrating genomic, proteomic, bioinformatic, cellular, molecular, biochemical, and genetic approaches.

Contact: Center for Plant Cell Biology Research Experiences for Undergraduates Program, Department of Botany and Plant Sciences, University of California, Riverside, CA, 92521

University of California San Francisco

Summer Research Opportunities

Research in the departments of Biochemistry & Molecular Biology, Bioengineering, Biological and Medical Informatics, Biomedical Sciences, Biophysics, Cell Biology, Chemistry & Chemical Biology, Genetics, Neurosciences, Oral Biology, Pharmaceutical Sciences and Pharmacogenomics, and Quantitative Biology.

Contact: Director of Outreach, Graduate Division, 1675 Owens Street, University of California San Francisco, San Francisco, CA 94143

University of Colorado Denver

Graduate Experience for Multicultural Students

Research projects in biochemistry and molecular genetics, cell and developmental biology, cancer biology, human medical genetics, immunology, microbiology, molecular biology, neuroscience, pharmacology, reproductive science, and physiology and biophysics.

This program is for students from groups underrepresented in the sciences, including ethnic/racial minorities underrepresented in the sciences, economically/educationally disadvantaged backgrounds, first generation to attend college, or physically disabled.

Contact: Director, GEMS Program, University of Colorado Denver, Mail Stop C272, 4200 E. Ninth Avenue, Denver, CO 80262

University of Connecticut

Research Experience for Undergraduates

Research in renal, cardiac, and muscle physiology and in developmental neurobiology, synaptic plasticity and neural circuits.

This program is for students at small liberal arts colleges with limited research opportunities.

Contact: The University of Connecticut, Department of Physiology and Neuroscience, Storrs-Mansfield, CT 06269

University of Connecticut

Undergraduate Summer Research Internship Program in Biological and Biomedical Sciences

Research in cell biology, developmental biology, immunology, genetics, molecular biology, biochemistry, skeletal, cranio-facial and oral biology, neuroscience, and cellular and molecular pharmacology.

Contact: The University of Connecticut Health Center, Graduate School Summer Research Internship Program, 263 Farmington Avenue, Room AG062, Farmington, CT 06030

University of Florida

Research Experiences for Undergraduates

Research areas include prokaryotic physiology, metabolism, genetics, host-microbe interactions, and microbial ecology. Research approaches include, but are not limited to, bioinformatics, genomics, proteomics, genetics, molecular biology, biochemistry, molecular ecology, microscopy, and immunological assays.

Contact: Department of Microbiology and Cell Science, P.O. Box 110700, University of Florida, Gainesville, FL 32611

University of Georgia

Summer Undergraduate Fellowships in Genetics

Research in biotechnology, developmental genetics, ecological genetics, eukaryotic molecular genetics, evolutionary genetics, genomics, bioinformatics, molecular evolution, and prokaryotic molecular genetics.

Contact: SUNFIG Director, Department of Genetics, University of Georgia, Athens, GA 30602

University of Georgia

Research Experiences for Undergraduates in Genomics and Computational Biology

Research in fungal genomics and computational biology.

Contact: NSF REU Program, C308B Life Sciences Building, Genetics Department, University of Georgia, Athens, GA 30602

University of Georgia

Undergraduate Research Program in Prokaryotic Biology

Research into the functions of bacteria and archaea, using interdisciplinary approaches from the fields of genetics, biochemistry, physiology, molecular biology, cellular biology, and ecology.

Contact: The NSF REU Program, Microbiology Department, The University of Georgia, 527 Biological Sciences, Athens, GA 30602

University of Iowa

Summer Microbiology Research Experience for Undergraduates

Research in microbiological genetics, microbial physiology, microbial pathogenesis, virology, and immunology.

This program is for students from small liberal arts colleges and other institutions with limited research opportunities.

Contact: Summer Microbiology Undergraduate Research Program, Department of Microbiology, The University of Iowa, 3-403 BSB, Iowa City, Iowa 52242

University of Kansas

Research in Molecular Biosciences

Research in biochemistry, genetics, molecular biology, development biology, microbiology,

immunology, cell biology, bioinformatics, genomics, proteomics, and neurosciences.
Contact: Department of Molecular Biosciences, University of Kansas, 1200 Sunnyside Avenue, Lawrence KS 66045

University of Kentucky

Summer Program in the Biochemical Sciences

Research in structural biology, biophysics, proteomics, protein and nucleic acid chemistry, membrane biochemistry, and molecular biology.

This program is targeted at students who are residents of Appalachia or who are members of racial/ethnic minorities underrepresented in the sciences.

Contact: NSF REU Summer Program in the Biochemical Sciences, □Department of Molecular and Cellular Biochemistry□, 741 South Limestone Street, □Lexington, KY 40536

University of Louisville

Undergraduate Summer Research Opportunity Program

Research in anatomical sciences, neurobiology, biochemistry, molecular biology, immunology, microbiology, pharmacology, toxicology, physiology, biophysics, evolution, ecology, oral biology, audiology, and behavioral biology.

Contact: Undergraduate Summer Research Opportunity Program, Graduate School, 105 Houchens Building, University of Louisville, Louisville KY 40292

University of Maryland Baltimore County

Summer Biomedical Training Program

Research in biochemistry, biology, chemistry-biology interface, molecular and cell biology, and psychology.

This program is for students from minority groups underrepresented in the sciences.

Contact: Summer Biomedical Training Program, University of Maryland Baltimore County, 1000 Hilltop Circle, Baltimore, MD 21250

University of Maryland College Park

Summer Research Program for Undergraduates in Neuroscience and Cognitive Science

Research in the laboratories of the Integrative Neuroscience group in the Department of Psychology.

Contact: NACS Summer Internships, Department of Psychology, University of Maryland, College Park, MD 20742

University of Massachusetts Amherst

Research Experience for Undergraduates, Institute for Cellular Engineering

Research aimed at understanding cellular function and manipulating cells/tissues to perform in a particular manner is the basis for many ventures in the biomedical, biotechnology and pharmaceutical industries, including drug production from cell culture, methods for improved drug delivery, generation of artificial organs for replacement of diseased tissues, development of biofuels, and design of bioremediation processes for waste water clean-up.

This program is for students from minorities underrepresented in the sciences.

Contact: Program Director ICE, Department of Chemical Engineering, University of Massachusetts, Amherst MA 01003

University of Massachusetts Amherst

Summer Program for Undergraduate Research

Research in biochemistry, molecular biology, animal science, entomology, environmental sciences, food science, natural resources conservation, forestry, microbiology, plant and soil

sciences, wildlife and fisheries conservation, neuroscience and behavior, organismic and evolutionary biology, plant biology, and cell biology.

This program gives preference to students from racial/ethnic minorities underrepresented in the sciences.

Contact: Program Director, Northeast Alliance SPUR, Goodell Building Room 528, UMass Amherst, Amherst MA 01003

University of Massachusetts Boston

Research Experiences for Undergraduates in Integrative and Evolutionary Biology

Research in biodiversity, bioinformatics, cell signaling, conservation biology, genetics, gene regulation, ecology, evolutionary biology, molecular evolution, neuropharmacology, microbiology, microbial ecology, plant growth control, and population biology.

Contact: REU Program Director, Department of Biology, UMass Boston, Boston MA 02125

University of Massachusetts Medical School

NIH Summer Research Program to Increase Diversity Among Biomedical Researchers

Biomedical research in cancer biology, cell biology, psychiatry and neuroimaging, biochemistry, molecular pharmacology, molecular genetics, microbiology, molecular medicine, and physiology.

This program is for students from groups underrepresented in the sciences, including racial/ethnic minorities, first-generation college students, students from economically-disadvantaged backgrounds, and students who are physically disabled.

Contact: Program Coordinator, NIH Summer Research Program, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655

University of Massachusetts Medical School

Summer Undergraduate Research Experience

Biomedical research in cancer biology, cell biology, psychiatry and neuroimaging, biochemistry, molecular pharmacology, molecular genetics, microbiology, molecular medicine, and physiology.

Contact: Program Coordinator, SURE, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 0165

University of Michigan, Program in Biomedical Sciences

Summer Undergraduate Research Opportunities

Biomedical research in a wide variety of disciplines, including pharmacology and neurology.

This program gives preference to students from groups underrepresented in the sciences, including racial/ethnic minorities, first-generation college students, students from economically-disadvantaged backgrounds, and students who are physically disabled.

Contact: PIBS, 1150 W. Medical Center Drive, University of Michigan, Ann Arbor, MI 48109

University of Minnesota

Life Sciences Summer Undergraduate Research Programs

Research in the heart, lung and blood program, molecular genetics and proteomics program, neuroscience program, and global change ecology program.

Contact: College of Biological Sciences, LSSURP, 124 Snyder Hall, 1475 Gortner Avenue, University of Minnesota, St. Paul, MN 55108

University of Missouri-Columbia

Miller Summer Research Internships in Animal Sciences

Research focusing on food and fiber producing animals, including ruminant and nonruminant

nutrition, reproductive physiology, nutritional immunology, genetics and molecular biology, and environmental physiology.

Contact: Life Sciences Undergraduate Research Opportunity Program, Department of Animal Sciences, University of Missouri-Columbia, Columbia, MO 65211

University of Missouri-Columbia

Plant Genomics Internships

Research in plant structural and functional genomics, including genome organization, gene expression, signal transduction, hormone action, organelle biochemistry, disease resistance, and crop plant productivity.

Contact: Life Sciences Undergraduate Research Opportunity Program, Department of Biological Sciences, University of Missouri-Columbia, Columbia, MO 6521

University of Nebraska - Lincoln

Undergraduate Research Training in Redox Biology

Research on redox biochemistry in areas including molecular medicine, environmental biochemistry, and plant biochemistry.

Contact: Nebraska Redox Biology Center, Summer Program, University of Nebraska-Lincoln, 1900 Vine Street, Lincoln, NE 68588

University of Nebraska Medical Center

Summer Undergraduate Research

Research in basic and clinical aspects of radiation oncology, preventative medicine, orthopedic surgery, neurosurgery, ophthalmology, radiology, pediatrics, internal medicine, anesthesiology, cell biology, genetics, anatomy, biochemistry, molecular biology, physiology, biophysics, and pharmacology.

Contact: Summer Undergraduate Research Program, 987815 Nebraska Medical Center, Omaha, NE 68198

University of Nebraska Medical Center, Department of Pharmacology and Experimental Neuroscience

Undergraduate Summer Research Fellowship Program

Research in diseases of the nervous system, infectious diseases and autoimmunity, pharmacology of cell signaling and receptors, nanomedicine and other emerging therapeutics.

Contact: Summer Research Fellowship Program, Department of Pharmacology and Experimental Neuroscience, University of Nebraska Medical Center, 987696 Nebraska Medical Center, Omaha, NE 68198

University of Nebraska Medical Center, Eppley Institute for Research in Cancer

Undergraduate Summer Research Fellowship Program

Research in biology, prevention, and treatment of cancer.

Contact: Summer Research Fellowship Program, Eppley Institute, University of Nebraska Medical Center, 987696 Nebraska Medical Center, Omaha, NE 68198

University of Nevada-Las Vegas

Research Experience for Undergraduates

Environmental microbiology research, including projects on microorganisms from diverse habitats such as hot springs, the deep terrestrial subsurface, hypersaline lakes, arid soils, and ephemeral water sources.

Contact: School of Life Sciences, □University of Nevada, Las Vegas□4505 Maryland Parkway, □Las Vegas, NV 89154

University of North Carolina at Chapel Hill

Summer Research Experience for Undergraduates in Molecular Biosciences

Research in animal and plant molecular biology, biochemistry, cell biology, cellular biophysics, structural biology, computational biology, genetics, genomics, and proteomics. *The program gives preference to students having no prior research experience, first-generation college students, and students from racial/ethnic minority groups underrepresented in the sciences.*

Contact: REU Program, CB# 7100, University of North Carolina, Chapel Hill, NC 27599

University of North Texas Health Science Center

Summer Multicultural Advanced Research Training Program

Research in the departments of Biochemistry and Molecular Biology, Biomedical Sciences, Cell Biology and Genetics, Clinical Research, Forensic Genetics, Integrative Physiology, Microbiology and Immunology, Pharmacology, and Neuroscience.

This program is for freshmen and sophomore students. Preference is given to students from racial/ethnic minority groups underrepresented in the sciences.

Contact: SMART Program, Graduate School of Biomedical Sciences Office of Outreach, UNT Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107

University of North Texas Health Science Center

Summer Training Among Research Scientists

Research in the biomedical sciences.

Contact: STARS Program, Graduate School of Biomedical Sciences Office of Outreach, UNT Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107

University of Notre Dame

Global Linkages of Biology, the Environment, and Society (GLOBES) Summer Undergraduate Research Program

Interdisciplinary research on problems of infectious disease, invasive species, and environmental degradation.

Contact: NSF-IGERT GLOBES Program Director, University of Notre Dame, Department of Biological Sciences, Notre Dame, IN 46556

University of Notre Dame

Research Experience for Undergraduates

Integrative cell and molecular biology research.

Contact: REU Program Director, University of Notre Dame, Department of Biological Sciences, Notre Dame, IN 46556

University of Oregon

Summer Program for Undergraduate Research

Research in evolution, development, genomics, structural biology and biophysics, bioinformatics, computational biology, molecular biology, bioinformatics, genetics, cell biology, neuroscience, ecology, marine biology, biochemistry, bioorganic chemistry, physiology, psychology, exercise and movement science, and human physiology.

Special consideration will be given to students who are from institutions with limited research opportunities, first-generation college students, students from economically-disadvantaged backgrounds, and students who are members of racial/ethnic minority groups underrepresented in the sciences.

Contact: Summer Program for Undergraduate Research, Department of Biology, University of Oregon, Eugene, OR 97403

University of Pennsylvania

Summer Undergraduate Internship Program

Research in control of gene expression, cell signaling, cell growth and cancer, gene therapy, developmental biology, genetics, genomics and computational biology, microbiology, virology, immunology, neuroscience, pharmacology, structural biology, bioenergetics, biomedical imaging and microscopy, and molecular biophysics.

Contact: Summer Internship Undergraduate Program, Biomedical Graduate Studies, University of Pennsylvania, 160 Biomedical Research Building II/III, Philadelphia, PA 19104

University of Pittsburgh, Center for Neuroscience

Summer Undergraduate Research

Research in neuroanatomy, neurophysiology, cellular and molecular neurobiology, brain imaging, computer simulations, neuropsychology, or behavioral assessments.

This program seeks applicants from students at liberal arts colleges with limited neuroscience research opportunities.

Contact: Center for Neuroscience, E1440 Biomedical Science Tower, University of Pittsburgh, Pittsburgh, PA 15261

University of Pittsburgh, Interdisciplinary Biomedical Graduate Program

Summer Undergraduate Research Program

Research in biochemistry, molecular genetics, cell biology, molecular physiology, cellular and molecular pathology, immunology, molecular virology, microbiology, and pharmacology.

Contact: University of Pittsburgh, School of Medicine Graduate Office, Interdisciplinary Biomedical Graduate Program, 524 Scaife Hall, Pittsburgh, PA 15261

University of Pittsburgh School of Medicine

Summer Research Opportunity In Computational Biology

The Bioengineering and Bioinformatics Summer Institute (BBSI) offers projects in quantitative computer modeling methods at multiple scales in the life sciences (molecular to cellular).

Contact: Coordinator, BBSI, Department of Computational Biology, University of Pittsburgh School of Medicine, 3064 Biomedical Sciences Tower 3, 3501 Fifth Avenue, Pittsburgh, PA 15261

University of Rochester

GEBS Summer Scholars Program

Research in cellular biology, biochemistry, molecular biology, biophysics, structural biology, genetics, genomics, development, immunology, microbiology, virology, pharmacology, physiology, pathways of human disease, cardiovascular sciences, and toxicology.

This program gives priority to students with disabilities, students from minority groups underrepresented in the sciences, first-generation college students, and students from socioeconomically disadvantaged backgrounds.

Contact: GEBS Summer Scholars Program, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642

University of Rochester

Strong Children's Research Center Summer Training Program

Research in childhood diseases and developmental biology.

Contact: Program Coordinator, Strong Children's Research Center, URMC, Department of Pediatrics, 601 Elmwood Avenue, Rochester, New York 14642

University of Rochester

The Schmitt Program on Integrative Brain Research

Research in learning, plasticity, and memory; the senses and behavior; and the neurobiology of aging and disease.

Priority is given to students with disabilities, students from minority groups underrepresented in the sciences, first-generation college students, and/or students from socioeconomically disadvantaged backgrounds.

Contact: Schmitt Program, University of Rochester Medical Center, 601 Elmwood Avenue, Box 316-S, Rochester, NY 14642

University of South Alabama

Research Experiences for Undergraduates Program

Research on structure and function of proteins in the departments of chemistry, biology, molecular and cellular pharmacology, biochemistry and molecular biology and microbiology and immunology.

Contact: REU Program, College of Allied Health Professions, UCOM 1500, University of South Alabama, Mobile, AL 36688

University of Texas at Austin

Summer Undergraduate Research Program in Cellular and Molecular Imaging for Diagnostics and Therapeutics

Interdisciplinary research in chemistry, biochemistry, and biomedical engineering aimed at cellular and molecular imaging for diagnostics and therapeutics.

Contact: The Summer Undergraduate Research Program in Cellular and Molecular Imaging for Diagnostics and Therapeutics, The University of Texas at Austin, Department of Chemistry and Biochemistry, Austin, TX 78712

University of Texas at El Paso

Research Experience for Undergraduates

Research in cell biology and molecular biology.

Contact: UTEP Summer REU Program, 500 W. University Avenue, El Paso, TX 79968

University of Texas Medical School at Houston

Summer Research Program for Undergraduates

Research in departments of Biochemistry and Molecular Biology, Integrative Biology and Pharmacology, Internal Medicine, Microbiology and Molecular Genetics, Neurobiology and Anatomy, Ophthalmology and Visual Science, Pathology and Laboratory Medicine, Dentistry, Health Promotion and Dental Care Delivery, Oral Surgery, Orthodontics, Pediatric Dentistry, Restorative Dentistry and Biomaterials, Health Informatics, Nursing Research and Technology, Environmental Public Health, and Epidemiology.

Contact: Summer Research Program for Undergraduates, University of Texas Medical School at Houston, Houston, TX 77030

University of Texas Medical Branch

Summer Undergraduate Research Program

Research areas include molecular biology, toxicology, biochemistry, immunology, physiology, virology, genetics, microbiology, pharmacology, and marine biology.

Contact: The Graduate School of Biomedical Sciences, The University of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555

University of Texas Southwestern Graduate School

Summer Undergraduate Research Fellowship Program

Research in biochemistry, biophysics, chemistry, computational biology, cell biology, genetics, molecular and cell biology, developmental biology, genetics, microbiology, immunology, integrative biology, pharmacology, and neurosciences.

Contact: SURF Program, Southwestern Graduate School of Biomedical Sciences, UT Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, Texas 75390

University of Toledo - Health Science Campus

Summer Undergraduate Research Fellowship

Research in cancer biology, cardiovascular and metabolic diseases, infection, immunity and transplantation, and neurosciences and neurological disorders.

Contact: Summer Undergraduate Research Fellowship, The University of Toledo - Health Science Campus, 3000 Arlington Avenue, Toledo, OH 43614

Stefanie Brown (CMBiology '08) did internships in this program in Summer 2006 and Summer 2007.

University of Utah

Summer Undergraduate Research Program

Research in cell and developmental biology, molecular biology, genetics, neurobiology, biochemistry and immunology.

Contact: Bioscience Undergraduate Research Program, University of Utah, Department of Biology, 257 South 1400 East, Salt Lake City, UT 84112

University of Utah Health Sciences Center

Summer Undergraduate Research Program

Research in the molecular and cellular mechanisms of addictive drugs, anticonvulsant drugs, and molecular mechanisms of cancer and neurotransmitters.

Contact: Summer Undergraduate Research Program, Department of Pharmacology and Toxicology, University of Utah Health Sciences Center, Salt Lake City, UT 84112

University of Virginia School of Medicine

Summer Research Internship Program

Research in 32 areas of medical research including disease-related fields such as cardiovascular disease, cancer, diabetes, renal disease, or neurodegenerative diseases, as well as basic medical sciences such as signal transduction, membrane biology, cell growth and differentiation, and molecular genetics.

Contact: Summer Research Internship Program, 1340 Jefferson Park Avenue, University of Virginia, Charlottesville, VA 22908

Chris Gisler (Biology & Economics '02) did an internship in this program in Summer 2000.

University of Washington, Friday Harbor Laboratory

Blinks Fellows in Marine Research

Research emphasizing marine invertebrate zoology, phycology, fisheries science, conservation biology, molecular biology of marine organisms, and oceanography.

The program targets students from racial/ethnic groups underrepresented in the sciences.

Contact: Scott Schwinge, Friday Harbor Laboratories, 620 University Road, Friday Harbor, WA 98250

University of Wisconsin-Madison

Research Experience for Undergraduates in Microbiology

Research in microbiology, microbial genetics, or molecular biology.

The program seeks students from racial/ethnic minority groups underrepresented in the sciences, students with disabilities, and students from small liberal arts colleges without

extensive research opportunities.

Contact: REU-Microbiology, Department of Bacteriology, University of Wisconsin-Madison, Madison, Wisconsin 53706

University of Wisconsin-Madison

Integrated Biological Sciences Summer Research Program

Research areas: computational biology and biostatistics; neurobiology; cellular and molecular biology; plant development, breeding, and genetics; environmental biology; and bioenergy.

This program gives preference to students who are: from small liberal arts colleges without extensive research opportunities; first-generation college students; from socio-economically disadvantaged backgrounds; or from racial/ethnic groups underrepresented in the sciences

Contact: Center for Biology Education, University of Wisconsin-Madison, 1266 Genetics/Biotech Center, 425 Henry Mall, Madison, WI 53706

University of Wisconsin-Madison

Summer Research Opportunity Program

Research in molecular environmental toxicology, including cell biology, genetics, developmental biology, immunotoxicology, and environmental toxicant remediation.

This program is for students from racial/ethnic minority groups underrepresented in the sciences.

Contact: Summer Research Opportunity Program, University of Wisconsin-Madison, 777 Highland Avenue, Madison, WI 53705

University of Wisconsin-Oshkosh

Research Experience for Undergraduates

Research in proteomics and functional genomics.

Contact: UW Oshkosh REU Site Program Director, Department of Biology and Microbiology, 151 Halsey Science Center, 800 Algoma Blvd., Oshkosh, WI 54901

University of Wisconsin-La Crosse

Research Experience for Undergraduates

Research in biochemistry, bioinformatics, cell biology, classical and molecular genetics, development, immunology, microbiology, and synthetic organic chemistry.

Contact: Biology Department, University of Wisconsin-La Crosse, 1725 State Street, La Crosse, WI 54601

University of Wisconsin-Milwaukee, Great Lakes WATER Institute

Summer Internships in Aquatic Sciences

Research in geology, geochemistry, physical chemistry, aquatic zoology, microbiology, molecular biology, fish biology/ecology/aquaculture, and biochemistry/physiology of aquatic organisms.

Contact: Great Lakes WATER Institute, University of Wisconsin-Milwaukee, 600 E. Greenfield Avenue, Milwaukee, WI 53204

Vanderbilt University

Integrative Cancer Biology Program

Research on the analysis of cancer as a complex biological system, focused on the development and validation of a predictive mathematical model of cancer invasion and the integration of experimental biology with mathematical and computational modeling.

Contact: Director, Vanderbilt Summer Science Academy, 340 Light Hall, Nashville, TN, 37232

Vanderbilt University

Summer Research Program For Minority Students

Research in cardiovascular biology, biophysics and structural biology, cellular regulation, chemistry of macromolecules, developmental biology, growth control and cancer, immunology, virology, molecular basis of drug action, molecular endocrinology and hormone action, molecular genetics, neuroscience, and toxicology and carcinogenesis.

This program is for students from racial/ethnic minority groups underrepresented in the sciences.

Contact: Director, Vanderbilt Summer Science Academy, 340 Light Hall, Nashville, TN, 37232

Vanderbilt University

The Cellular Microbiology of Germs and Defenses

Research in the cellular microbiology of pathogenic bacteria.

Contact: Director, Vanderbilt Summer Science Academy, 340 Light Hall, Nashville, TN, 37232

Vanderbilt University

The Molecular and Cellular Biology Summer Program

Research in the departments of Biochemistry, Biological Sciences, Cancer Biology, Cell Biology, Microbiology and Immunology, Molecular Physiology and Biophysics, Neuroscience, Pathology, and Pharmacology.

Contact: Director, Vanderbilt Summer Science Academy, 340 Light Hall, Nashville, TN, 37232

Vanderbilt University

Summer Undergraduate Research Program in Pharmacology

Research in receptors and signal transduction, protein phosphorylation. Regulation of gene expression, neural and cardiovascular development and differentiation, cardiovascular pharmacology, neuropharmacology, medicinal chemistry, genetic basis of inherited disease, and regulation of synaptic events.

Contact: Director, Vanderbilt Summer Science Academy, 340 Light Hall, Nashville, TN, 37232

Vanderbilt University

The Vascular Biology Summer Research Program For Minority Students

Research in vascular biology, including normal and diseased heart, lung, and blood, in the areas of microbiology, immunology, genetics, cell biology, molecular physiology and biophysics, cardiovascular medicine, pathology, gastroenterology, medical endocrinology, pediatric infectious diseases, pediatric genetics, cardiac surgery, and biomedical engineering.

This program is for students from racial/ethnic minority groups underrepresented in the sciences.

Contact: Director, Vanderbilt Summer Science Academy, 340 Light Hall, Nashville, TN, 37232

Virginia Commonwealth University

Bioinformatics and Bioengineering Summer Institute

Research in bioinformatics (the use of computers to handle biological information) and bioengineering (combines engineering, physics, mathematics, chemistry, and biology in the service of medical research).

Contact: VCU Bioinformatics and Bioengineering Summer Institute, Center for the Study of Biological Complexity, Virginia Commonwealth University, Richmond, VA 23284

Virginia Commonwealth University

Summer Undergraduate Research Program

Research in physiology and biophysics.

Contact: SURP Director, Department of Physiology and Biophysics, 1101 E. Marshall Street, Virginia Commonwealth University, Richmond, VA 23298

Virginia Tech

Undergraduate Summer Research Internship

Research in agriculture, animal sciences, biochemistry, crop and soil sciences, dairy science, entomology, food science, horticulture, nutrition and exercise, plant pathology and physiology, natural resources, microbiology, fisheries and wildlife sciences, forestry, and veterinary medicine.

This program is for students from racial/ethnic minority groups underrepresented in the sciences.

Contact: Multicultural Academic Opportunities Program, Summer Research Internship Program, 110 Femoyer Hall, Virginia Tech, Blacksburg, VA 24061

Wadsworth Center, New York State Department of Health

Summer Research Program in Cellular and Molecular Biosciences

Research in basic immunology and host defense, gene expression and regulation, protein biochemistry and structure analysis, viral mechanisms, and neurobiology and neurotoxicology.

The program is interested in attracting students from underrepresented minority groups and students from small liberal arts colleges without extensive research opportunities.

Contact: Department of Biomedical Sciences, Summer Undergraduate Research Program, Wadsworth Center Room C 236, Empire State Plaza, Box 509, Albany, NY 12201

Wake Forest University

Summer Research Opportunities Program in the Biomedical Sciences

Research in biochemistry, biomedical engineering, cancer biology, microbiology, immunology, neurobiology, pathology, pediatrics, physiology, pharmacology, psychiatry, and radiation oncology.

Contact: Graduate School of Arts and Sciences, Biomedical Sciences, Bowman Gray Campus, Medical Center Blvd., Winston-Salem, NC 27157

Washington University in St. Louis

Biomedical Research Apprentice Program

This program gives preference to students from socio-economically disadvantaged backgrounds, minority groups underrepresented in the biomedical sciences, and first-generation college students.

Contact: Washington University, Medical Scientist Training Program, 660 South Euclid Avenue, St. Louis, MO 63110

Wayne State University Cancer Institute

Undergraduate Summer Fellowships

Research in the biology, prevention, and cure of cancer.

Contact: Wayne State University School of Medicine, Graduate Program in Cancer Biology, 550 E. Canfield, 329 Lande Building, Detroit, MI 48201

Wayne State University School of Medicine

Summer Undergraduate Research Experience in Biomedical Sciences

Research in biochemistry, cancer biology, molecular biology, microbiology, immunology,

molecular and cellular toxicology, molecular medicine and genetics, pathology, physiology, and pharmacology.

Contact: Student SURE, Wayne State University School of Medicine, 1128 Scott Hall, 540 E. Canfield, Detroit, MI 48201

Wayne State University School of Medicine

Summer Undergraduate Research Program in Molecular Medicine and Genetics

Research in molecular biology of cancer, chromosome structure and function, gene regulation, molecular neurobiology, differentiation and development, genetic engineering and molecular evolution.

Contact: SURP, Wayne State University School of Medicine, Center for Molecular Medicine & Genetics, 3127 Scott Hall, 540 E. Canfield, Detroit, MI 48201

Wayne State University School of Medicine

Summer Undergraduate Research Fellowship in Physiology

Research in cardiovascular physiology, renal physiology, neurophysiology, exercise physiology, membrane physiology, endocrinology and metabolism, respiratory physiology, and reproductive sciences.

Contact: SURF - Program Director, Wayne State University, Dept. Physiology, 6112 Scott Hall, 540 E. Canfield, Detroit, MI 48201

West Virginia University, Mary Babb Randolph Cancer Center

Undergraduate Research Fellowships

Clinical and basic cancer research including molecular, biochemical and cellular approaches toward understanding the mechanism of cancer, the development of anticancer drugs and applications of nanotechnology to cancer research. The participating labs focus upon blood and hematological malignancies such as leukemia or lymphoma, as well as cervical, ovarian, breast, lung and head and neck cancers.

Contact: Coordinator, Undergraduate Research Program, Mary Babb Randolph Cancer Center, Robert C. Byrd Health Sciences Center, West Virginia University, Morgantown, WV 26506

Rachel Howard (Biology & Spanish '04), Kristina Tarasan (Biology '05), Cody Smith (Biology '06) and Neal Baker (Chemistry '06) have interned at Mary Babb Randolph Cancer Center

West Virginia University, Center for Neuroscience

Summer Undergraduate Research Internships

Research opportunities incorporate molecular- to systems-level analyses of nervous-system function, which includes projects in sensory, cognitive, and behavioral neuroscience; neural injury and neurodegeneration; and neuropsychiatric diseases.

Contact: WVU Center for Neuroscience, P.O. Box 9303, West Virginia University, Morgantown, WV 26506

West Virginia University, The Honors College

Summer Undergraduate Research Experience

Contact: WVU-SURE, The Honors College at WVU, 248 Stainaker Hall, Morgantown, WV 26506

Western Michigan University

Research Experiences for Undergraduates

Research with an interdisciplinary approach to understanding environmental signal transduction, including evolution of metabolism and chemical ecology.

Contact: Research Experiences for Undergraduates, Western Michigan University,
Department of Chemistry, Wood Hall, 1903 W. Michigan Ave. Kalamazoo, MI 49008

Weill Cornell Graduate School of Medical Sciences

Access Summer Research Program

Research in the biomedical sciences.

Contact: Access Summer Research Program, Weill Cornell Graduate School of Medical
Sciences, 445 East 69th Street, New York, NY 10021.

*This program is for students from racial/ethnic minority groups underrepresented in the
sciences.*

Wright State University

Short Term Research Experience for Minority Students (STREAMS)

Research in cardiovascular-related areas

*This program is for students from racial/ethnic minority groups underrepresented in the
sciences.*

Contact: Research Training Coordinator, STREAMS, Boonshoft School of Medicine, Wright
State University, 3640 Colonel Glenn Highway, Dayton, OH 45401.

Eliseo Roquiz (Biology '05) did an internship there in Summer 2004.