Careers in Biological Sciences

Health-Related Careers
Chiropractor (Doctor of Chiropractic)
Dentist—Specialities: Endodontics (nerves and pulp), Oral and Maxillofacial Pathology, Oral and Maxillofacial Radiology, Orthodontics, Oral surgery, Pediatric Dentistry, Periodontics, Prosthodontics, Dental Public Health
Medical Doctor (Doctor of Medicine—M.D.)
Specialties and subspecialties: Aerospace medicine, Allergy and immunology, Anesthesiology, Cardiovascular medicine, Colon and rectal, Dermatology, Emergency medicine, Family Practice, Forensic Pathology, Gastroenterology, Hematology, Internal medicine, Nephrology, Neonatal-perinatal medicine, Neurology, Neurosurgeon, Nuclear medicine, Obstetrics/gynecology, Ophthalmology, Orthopedic surgery, Otolaryngology (Eye, ear, nose, throat), Pathology, Pediatrics, Physical medicine and rehabilitation, Plastic surgery, Preventative medicine, Psychiatry, Pulmonary medicine, Radiology, Rheumatology, Sports medicine, Surgery, Urology, Vascular surgery
Doctor of Osteopathic Medicine (D.O.)
Optometrist (Doctor of Optometry—O.D.)
Physicians Assistant
Veterinarian
Podiatrist
Genetic Counselor
Nursing
Pharmacist
Clinical Laboratory Scientist (Medical Technologist)
Occupational Therapist
Physical Therapist
Recreational Therapist
Other Medically Related Careers
Audiologists, Dieticians and Nutritionists, Substance Abuse Counselors, Blood banking specialist, Diagnostic Medical Sonographers, Emergency Medical Technician, Biomedical writers, Medical Illustrators, Biomedical photographers, Biomedical equipment technicians, Medical and Psychiatric social workers, Athletic trainer, Medical Librarian, Health and Medical Science Museum Curator, Health Information Administrator, Patient Representative (Resolve problems between patients and hospitals, HMOs, nursing homes, health centers), Medical Laboratory Technicians, Medical Lab Assistants, Medical Assistants, Medical Administrative Specialists, Phlebotomy Technicians, Dental Assistants, Allied Health Instructors, Clinical Laboratory Consultants, Industrial hygienist, hematopathologist
Biomedical Engineer
Public Health Careers
Includes Health Services Administration (health planning, organization, policy formulation and analysis, finance, economics, marketing), Biostatistics (application of statistical methodology to characterize or investigate health problems or programs), Epidemiology, Behavioral Sciences/Health Education (develop programs to help people choose healthy lifestyles, make efficient use of health services)
Environmental Health Specialist
Epidemiologist
Pharmacologist
Forensic Scientist (Sub-disciplines according to American Academy of Forensic Scientists: Criminalistics, Digital & Multimedia Sciences, Engineering Sciences, General, Jurisprudence, Odontology, Pathology/Biology, Physical Anthropology, Psychiatry & Behavioral Science, Questioned Documents, Toxicology)

**General Biology Careers**
Bioinformatics specialist
Biological Anthropologist
Biophysicist
Biosafety Officer
Biostatistician
Cell Biologist
Cytogeneticist
Cytotechnologist
Developmental Biologist
Economist
Evolutionary Biologist
Geneticist
Genomics specialist
Immunologist
Marine Biologist
  - Marine Mammal Trainer
  - Oceanographer
  - Aquatic Biologist
  - Aquarium Technician, Aquarist, Director
Medical and Clinical Lab Technician
Molecular Biologist
Neuroscientist—neurobiologist, neurochemist, neuroanatomist, neuropathologist, neuropharmacologist, neurophysiologist
Nutritionist, Dietician
Paleontologist
Parasitologist
Reproductive biologist

**Teacher/Professor** (Secondary, Community College, University)

**Researcher**—any field of biology

**Microbiology**
Clinical microbiologist
Environmental microbiologist
Food microbiologist
Industrial microbiologist
Medical microbiologist
Mycologist (fungal microbiologist)
Parasitologist
Petroleum microbiologist
Quality assurance technologist
Microbiology, continued
Soil microbiologist
Veterinary microbiologist
Virologist
Water quality microbiologist
Wildlife microbiologist

Ecology/Environmental Biology
Environmental Educator (Environmental Education Instructor, Education naturalist, Nature Interpreter, Park naturalist, Park Ranger, Outdoor Education Director)
Environmental Health and Safety Professional
Environmental impact Analyst/Specialist
Environmental Policy, Planning, and Management (Environmental Planner, Natural Resources Planner, Global Warming Advocate, Environmental Analyst, Conservation Analyst/Specialist, Environmental Advocate, Environmental Health Specialist, Legislative Advocate, Recycling policy Analyst, Resource Manager, Restoration Coordinator, Water treatment and wastewater disposal specialist, Watershed Ecologist, Wildlife habitat manager)
Environmental Sciences (Air quality scientist, Biohydrobiologist, Conservation scientist, Ecological Risk Assessor, Ecologist, Environmental field scientist, Environmental specialist, GIS specialist, Natural resources specialist, Wetland biologist, Researcher)
Air Pollution Control specialist
Conservation biologist
Climatologist
Customs Agent—Endangered species, pests
Ecosystem modeler
Environmental Compliance Inspector
Environmental Health Scientist
Environmental Protection Specialist
Environmental Regulations specialist
Environmental Remediation analyst/specialist
Environmental Restoration Field Supervisor or Research Associate
Environmental Toxicologist
Forestry Technician/specialist
GIS (Geographic Information Systems) Analyst
Hazardous Waste Management specialist
Museum Curator
Natural Resources Manager
Nature Center Director
Organic Farm Certification Specialist
Outdoor Recreation Planner
Pollution Control Specialist
Public Affairs Specialist
Renewable Energy specialist
Research ecologist
Restoration Ecology Technician
Water Pollution Control Biologist
Water Quality Specialist
Water Resources Project Manager
Wildlife Biologist
Animal Biology (Zoology)
Animal Behavior Biologist (Animal Behaviorist)
Animal and wildlife educator
Animal Care Facility Supervisor
Animal Husbander (breeding & feeding of livestock)
Animal Pathologist
Animal Psychologist
Animal Physiologist
Animal Trainer
Aquatic Biologist
Conservation Biologist
Endocrinologist
Entomologist
Fish and Game Warden
Fish Biologist (Ichthyologist)
Herpetologist
Mammalogist
Marine biologist
Museum Curator
Nature Center Director
Ornithologist (Bird Sanctuary Director)
Parasitologist
Park Ranger
Primate Center Manager, Director
Range Scientist
Systematic biologist
Veterinarian
Wildlife biologist
Wildlife Refuge Manager
Zoo Animal Breeder
Zookeeper
Zoo Curator

Biotechnology
Stem Cell biologist
Cell culture specialist
Clinical Research Associate
Clinical data specialist
Regulatory Affairs Specialist
Health and Safety specialist
Research and Development (Lab Assistant, Research Associate, Research Scientist)
Biochemical development engineer
Validation technician/engineer
Quality Control Specialist, Analyst, Engineer
Manufacturing and Production Specialist
Sales and Marketing (Market research analyst, Pharmaceutical Sales Representative)
Technical Support Services Specialist
Patent Research Associate
Biotechnology, continued

Life Sciences Information Management analyst
Specialists in Human and Animal Health Care (Diagnostics, Therapeutics, Regenerative Medicine, Personalized medicine, Vaccines, Genomics and Proteomics, Biotechnology Drugs, plant-made pharmaceuticals; stem cells, nanotechnology) Agriculture (Crop biotechnology-production improvement; forest biotechnology),

Specialists in Energy and Environmental Management (Biofuel; Biomass from chemicals, wastes, residues, and fuel crops; enhanced oil recovery and nonfossil fuel sources; Decomposition and detoxification of chemicals, Biosensors and biochips; Biodefense; Green plastics; Improved microbial systems for environmental control of air, water, and soil), Food Biotechnology (Food processing, food safety)
Bioprocess Engineer
Bioinformatics specialist
Nanotechnology specialist
Instrument technician/professional
Animal technician
Technical writer

Non-Traditional Careers
Science (biology) writer
Biological Illustrator
Nature Photographer
Science Librarian
Science Reporter
Book Editor
Lobbyist
Sales and Marketing (Pharmaceutical, Science Textbooks, Instruments and Supplies)
Science Policy Developer
Instrument—Designer, Technician
Science Lab Designer
Peace Corps
Ecotourism
Lawyer-Environmental Lawyer, for example

Plant Biology (Botany)
Agricultural Geneticist
Agricultural Inspectors
Arboretum Technician, Director
Botanical Garden Technician, Director
Economic Botanist
Forester
Greenhouse Manager
Horticulturist
Land Reclamation Biologist
Landscape Biologist
Organic Farmer
Plant Disease Specialist
Plant Ecologist
**Plant Biology (Botany), continued**

Plant Geneticist
Plant Molecular Biologist
Tropical Rainforest Ecologist
Weed Control Specialist
Wetlands Ecologist
Wildlife Biologist, Wildlife Resources Manager