# GETTING TO KNOW UCLA LIFE SCIENCES

## INTRODUCTION

**LIFE SCIENCES** at UCLA brings together an extraordinary range of interests, from ecology and evolution to neuroscience. Our seven academic departments, eleven majors, and ten minors give you the flexibility to choose an academic program that will prepare you to meet your goals. You can learn about the most exciting advances in molecular biology today, the life in the depths of the ocean a few miles away from the campus, or the latest theories on how the brain affects behavior. And you can connect with the world of science through internships and hands-on research. **The best preparation for joining one of our majors is to take the most challenging courses in math and science that you can.** Consult the counselors at your school to find out the requirements for admission.

## ACADEMICS in the DIVISION OF LIFE SCIENCES

### *DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY*

***https://www.eeb.ucla.edu/***

The Department of Ecology and Evolutionary Biology (EEB) is the home of the Biology Major. Other EEB majors include: Ecology, Behavior, & Evolution as well as Marine Biology. EEB also offers a Minor in Conservation Biology and Evolutionary Medicine. Its mission is twofold: to provide new knowledge of the ecological and evolutionary processes that produce and sustain life on Earth, and to educate the next generation of scholars, professionals, and citizens for the biological, environmental and biotechnological challenges of the future.

MAJORS: BIOLOGY, B.S.
ECOLOGY, BEHAVIOR AND EVOLUTION (EBE), B.S.
MARINE BIOLOGY, B.S.

MINOR: CONSERVATION BIOLOGY
EVOLUTIONARY MEDICINE

### *DEPARTMENT OF INTEGRATIVE BIOLOGY AND PHYSIOLOGY*

***https://www.ibp.ucla.edu/***

Research in the Department of Integrative Biology and Physiology (IBP) is dedicated to explaining the function of complex biological systems, in cells, organs, and individuals. The recent rapid advances in molecular and cell biology and genetics, including the sequencing of numerous genomes, has provided an unprecedented opportunity to use this new information to understand how the genes interact to produce emergent phenotypes in complex systems.

MAJOR: PHYSIOLOGICAL SCIENCE, B.S.

### *DEPARTMENT OF MICROBIOLOGY, IMMUNOLOGY AND MOLECULAR GENETICS*

***http://www.mimg.ucla.edu/***

The Department of Microbiology, Immunology, and Molecular Genetics (MIMG) aims to provide the highest quality research and education possible in the interdisciplinary fields of Microbiology, Immunology, and Molecular Genetics. Educators and students work together in MIMG to identify and address the most relevant problems in microbial pathogenesis and physiology, host cell biology and immune defense, and the host-pathogen interface.

MAJOR: MICROBIOLOGY, IMMUNOLOGY, AND MOLECULAR GENETICS, B.S.

***DEPARTMENT OF MOLECULAR, CELL AND DEVELOPMENTAL BIOLOGY***

***https://www.mcdb.ucla.edu/***

Research in the Department of Molecular Cell and Developmental Biology (MCDB) focuses on the basic mechanisms that regulate cell differentiation and function.

MAJORS: MOLECULAR, CELL AND DEVELOPMENTAL BIOLOGY, B.S.

***DEPARTMENT OF PSYCHOLOGY***

***https://www.psych.ucla.edu/***

The Department of Psychology employs systematic methods of inquiry to study and explain human and animal behavior, both normal and abnormal, in terms of a variety of underlying variables, including neural, physiological, and cognitive processes; developmental factors and individual differences; and social and interpersonal influences and contexts.

MAJORS: PSYCHOBIOLOGY, B.S.
PSYCHOLOGY, B.A.
COGNITIVE SCIENCE, B.S.
MINORS: COGNITIVE SCIENCE
APPLIED DEVELOPMENTAL PSYCHOLOGY

## INTERDEPARTMENTAL PROGRAMS

***COMPUTATIONAL AND SYSTEMS BIOLOGY***

***https://casb.ucla.edu/***

The Computational and Systems Biology (CaSB) Interdepartmental Program is the home of the CaSB Major, which offers five concentrations, all listed below. The synergy for all is integrative systems, information and computational modeling sciences in biology. The focus is primarily quantitative, as mastery of advanced quantitative skills is essential for multidisciplinary understanding. Each Concentration emphasizes different systems or modalities, and computational or modeling approaches. Students normally choose one, but because the Concentration areas have substantial methodologic overlap, well-justified combinations are also possible. CaSB also offers Minors in Mathematical Biology, Structural Biology, and Systems Biology.

MAJORS: COMPUTATIONAL AND SYSTENS BIOLOGY, B.S.
CONCENTRATIONS: SYSTEMS BIOLOGY
NEUROSYSTEMS
BIOMEDICAL SYSTEMS
BIOINFORMATICS
BIOLOGICAL DATA SCIENCES
MINORS: MATHEMATICAL BIOLOGY
STRUCTURAL BIOLOGY
SYSTEMS BIOLOGY

***DEPARTMENT OF NEUROSCIENCE***

***http://www.neurosci.ucla.edu/***

Scientific study of the brain requires the skills of many different disciplines. Thus, this major is interdisciplinary and interdepartmental. The faculty are biologists, psychologists, biochemists, mathematicians, and engineers, all of whom share a fascination with the function of the brain. The brain is studied at many different levels, including the molecular and cellular levels, the level of systems of neurons, and at the behavioral level.

MAJOR: NEUROSCIENCE, B.S.
MINOR: NEUROSCIENCE

### *BIOMEDICAL RESEARCH MINOR*

**https://www.biomedresearchminor.ucla.edu/**

Independent research is complemented by coursework that develops important skills such as critical thinking, analysis of research literature and data presentation. In addition, an ethics and social science component trains students to recognize the political, social and philosophical issues facing science today.

MINOR: BIOMEDICAL RESEARCH

### *UCLA INSTITUTE FOR SOCIETY AND GENETICS*

***https://socgen.ucla.edu/***

The Institute for Society and Genetics (ISG) is an interdisciplinary unit that encourages scholarly research and educates students and the public about the ethical, legal and societal implications and interconnections of modern biotechnology, genetics and genomics. ISG offers undergraduate courses, major degrees in Human Biology and Society, B.A. and in Human Biology and Society, B.S., a minor in Society and Genetics, and fellowships for graduate and postdoctoral study.

MAJORS: HUMAN BIOLOGY AND SOCIETY, B.A.
HUMAN BIOLOGY AND SOCIETY, B.S.
MINOR: SOCIETY AND GENETICS

# MAJORS in the LIFE SCIENCES

**BIOLOGY**

*Department of Ecology and Evolutionary Biology*
https://www.eeb.ucla.edu/undergraduate.php

A major in **BIOLOGY** gives students an opportunity to design their own life sciences major to include courses from any of the life sciences departments, tailoring their major to their specific interests and career choices. Although biology is historically the classic major for pre-medical students, the Biology major also provides an excellent background for careers in public service, government, agriculture, environmental conservation, research and teaching. Many Biology majors participate in the Marine Biology Quarter (MBQ) or Field Biology Quarter (FBQ), with fieldwork off campus for most or all of the quarter. Students are also involved in undergraduate teaching apprenticeships, internships and research throughout the health and sciences departments at UCLA.

## COMPUTATIONAL AND SYSTEMS BIOLOGY

*Department of Computational and Systems Biology*
https://casb.ucla.edu/pre-major/

The Computational & Systems Biology (C&S Bio) major trains students to solve basic and applied biological problems by combining math, computing, and a strong base of biological knowledge and concepts. Students learn to approach problems and formulate questions that span the full range of biological systems, from genes to cells to medicine to ecology to evolution. A major goal is to understand whole systems, from cells to organs to individuals to ecosystems, both in terms of their components and emergent behaviors. The major is designed for students with a strong interest in applying math and computational approaches to study questions in the life sciences that range from how cells process information, to which genes influence disease risk or response to medication, to what determines rates of tumor growth, to which factors drive biodiversity.

**ECOLOGY, BEHAVIOR, AND EVOLUTION**

*Department of Ecology and Evolutionary Biology*
https://www.eeb.ucla.edu/undergraduate.php

**ECOLOGY, BEHAVIOR, AND EVOLUTION (EBE)**, the department's flagship major, includes students who are interested in field science, animal behavior and ecological studies, and evolution, the areas in which most of the Ecology and Evolutionary Biology faculty specialize. Research in this area can involve community structure and determinants of diversity, marine ecology of coastal ecosystems, physiological plant anatomy, social behavior in ant colonies, and population genetics. Field work and research are an integral part of the EBE major, both of which take place in many of the natural areas around UCLA, including Joshua Tree National Monument, the Mojave Desert and the local beaches and mountains. EBE majors participate in the Marine Biology Quarter or the Field Biology Quarter for the field research component of their major. These opportunities give students the experiential learning they need to prepare for graduate study, professional school or a career in field science.

**HUMAN BIOLOGY AND SOCIETY**

*UCLA Institute of Society and Genetics*
https://socgen.ucla.edu/academics/undergraduate/

The **HUMAN BIOLOGY AND SOCIETY** major degrees provide an interdisciplinary education in current issues at the intersections of human biology, genomics and society. Has human history changed your DNA? What issues are raised by genetic modification of our food crops and animals? Who owns your body? How expansive is your right to medical and genetic privacy? What are the individual and social consequences of personalized genetic medicine? What, if

anything, can human biology and genetics tell us about such complex concepts as 'race' and 'identity?' Does commercialization threaten academic research? If questions like these interest you, then the Human Biology and Society major may be an important opportunity for you. Students in the major specialize in one of five areas: Bioethics and Public Science Policy; Medicine and Public Health; Evolutionary Biology, Culture and Behavior; Population Genetics and History; and Historical and Social Studies of Science. Community internship, research apprenticeship, and capstone seminar are mandated as well. The Human Biology and Society major is good preparation for a variety of careers, including medicine, law, business, academia, and public policy

**MARINE BIOLOGY**

*Department of Ecology and Evolutionary Biology*

https://www.eeb.ucla.edu/undergraduate.php

**MARINE BIOLOGY** is the study of oceanography, ecology, fish, marine invertebrates, and many other subjects related to the oceans. Marine Biology majors take courses about marine organisms and physiology, ecology, and oceanography. They participate in the Marine Biology Quarter in the fall of their third or fourth year, and most participate in internships for credit at the Ocean Discovery Center, UCLA Marine Science Center, Los Angeles Dolphin Project, or Santa Monica Baykeepers. Many students also choose to do internships in the summer at Monterey Bay Aquarium Research Institute or other locations worldwide. Students go on to do research or graduate work and careers in environmental or governmental organizations (such as NOAA, EPA or the Coastal Resource Center) marine or environmental law and policy, medicine, dentistry or other professions.

**MICROBIOLOGY, IMMUNOLOGY, AND MOLECULAR GENETICS**

*Department of Microbiology, Immunology, and Molecular Genetics*

https://www.mimg.ucla.edu/undergraduate-overview/

How does HIV become AIDS? What makes cancer cells tick? How does the immune system fight disease? These are some of the questions for which molecular microbiologists seek the answers. The study of microbiology, immunology, and molecular genetics encompasses the basics of bacteria and virus structure and focuses on the genetic mechanisms of single-celled organisms. For **MICROBIOLOGY, IMMUNOLOGY AND MOLECULAR GENETICS (MIMG)** majors, the preparation of the core curriculum leads to advanced study in systemic, genetic and infectious diseases, immunology, and molecular genetics. Our major also provides strong and valuable preparation for a variety of careers. Graduates usually head toward genetic and/or microbial research, health professions such as medicine or dentistry, or jobs in the biotechnology industry; there are countless possibilities, from law to teaching to culinary arts. MIMG students experience basic scientific laboratory work first hand, as virtually all of our faculty direct undergraduate researchers. Courses offered by our department may include field trips to biotech companies or special instruction by industry scientists.

**MOLECULAR, CELL AND DEVELOPMENTAL BIOLOGY**

*Department of Molecular, Cell and Developmental Biology*

https://www.mcdb.ucla.edu/undergraduate

**MOLECULAR, CELL AND DEVELOPMENTAL BIOLOGY (MCDB)** majors take a concentrated grouping of life science courses designed to foster their understanding of biological design at the molecular level. Our majors study molecular processes at the single and the multicellular level, as well as the role of genes in multicellular organisms. In MCD Biology there is a strong emphasis on using model organisms in laboratories for molecular studies, including those arising during embryogenesis and even those relevant to mechanisms found in humans. These model organisms range from E.coli and yeast to plants and fruit flies to zebra fish. Our majors have classes in all aspects of cell and molecular biology including human genetics, the principles of neurobiology, molecular parasitology, and plant differentiation and development. One of our most popular lab classes teaches the techniques of genetic engineering, such as how to make recombinant DNA,

transform bacteria, and clone genes. MCDB majors develop powerful analytical skills and a sophisticated expertise in life sciences, which make our graduates highly valued in such diverse vocations as research, teaching, consulting, biotechnology, and the health professions. Our students have completed independent studies in molecular biology on such diverse topics as tuberculosis, breast cancer, brain development, genetic defects, and tracking coyote migration through DNA inheritance patterns.

**NEUROSCIENCE**

*Neuroscience Interdepartmental Undergraduate Program*
http://www.neurosci.ucla.edu/

The **NEUROSCIENCE** major is an interdepartmental program which allows students to complete their major with courses from departments such as physiological science, molecular, cell and developmental biology, and psychology, as well as the core neuroscience courses. Neuroscience seeks to understand the brain in health and in disease. Our students' courses cover such topics of fundamental interest as perception, cognition, learning, memory, motor control, and regulation of body function. Neuroscience majors study a wide range of topics such as the anatomy of the central nervous system, the visual system, biological bases of psychiatric disorders, and neural mechanisms controlling movement. The undergraduate program draws many of its faculty from UCLA's Brain Research Institute, which includes faculty from a variety of departments in the College of Letters and Science and the Schools of Medicine and Dentistry. The Neuroscience Undergraduate Society is involved with community projects such as Project Brainstorm during Brain Awareness Week, in conjunction with the Brain Research Institute and the Neuroscience Graduate Program, during which our majors host students from elementary schools and show them around brain research laboratories (including a real brain!).

**PHYSIOLOGICAL SCIENCE**

*Department of Integrative Biology and Physiology*
https://www.ibp.ucla.edu/undergraduate.php

**PHYSIOLOGICAL SCIENCE** is the study of human anatomy and physiology. Our students learn all of the major systems of the human body in great detail including the brain and nervous system, the reproductive system, the cardiovascular system, and much more. After a rigorous group of foundation classes, Physiological Science majors can take a variety of electives including topics such as nutrition, history of physiology, computer modeling of physiology systems, and learning and memory,. Many of our majors are considering careers in health care, and there is a world of opportunity available with this degree. Through UCLA's Athletic Department, students can serve as athletic trainers to our NCAA sports teams, travel with the teams to away games or meets, and gain valuable experience and connections for career options.

**PSYCHOBIOLOGY**

*Department of Psychology*
https://www.psych.ucla.edu/undergraduate/undergraduate-student-services/majors-minors

The **PSYCHOBIOLOGY** major involves the study of brain-behavior relations and laboratory training in standard brain research techniques. The major is designed for students who plan to go on to postgraduate work in physiological psychology, neuroscience, behavioral aspects of biology, or the health sciences. The requirements for the major include sufficient preparation for students planning to pursue graduate work in any of the above fields; however, additional advanced courses in psychology and related sciences are recommended. The Department offers opportunities for research and fieldwork experience through which students earn units toward their major and degree. Psychobiology majors can also participate in the Undergraduate Psychobiology Association and Psi Chi, the National Honors Society in Psychology.

# MINORS in the LIFE SCIENCES

**APPLIED DEVELOPMENTAL PSYCHOLOGY**

*Department of Psychology*

https://www.psych.ucla.edu/undergraduate/undergraduate-student-services/majors-minors

The Applied Developmental Psychology (ADP) minor is designed to (1) provide a coherent, challenging academic program focused on investigating, understanding, and supporting the development of young children and their families, (2) teach undergraduate students how to apply theories, research methods, and research findings to practical concerns, and (3) prepare students to join or receive further training in various child-related professions.

**BIOMEDICAL RESEARCH**

https://www.biomedresearchminor.ucla.edu/

The UCLA Minor in **Biomedical Research** was officially launched in Spring 2007. Conceived by Prof. Utpal Banerjee and Dean Fred Eiserling as a logical extension of Dr. Banerjee's highly successful HHMI Professors program, the Undergraduate Research Consortium in Functional Genomics (URCFG; www.bruinfly.ucla.edu), the Minor was designed to make laboratory research a core part of the scientific curriculum as early as the first year of college. Independent research is complemented by coursework that develops important skills such as critical thinking, analysis of research literature and data presentation. In addition, an ethics and social science component trains students to recognize the political, social and philosophical issues facing science today. The UCLA Minor in Biomedical Research was made possible by generous support from the Howard Hughes Medical Institute

**COGNITIVE SCIENCE**

*Department of Psychology*

https://www.psych.ucla.edu/undergraduate/undergraduate-student-services/majors-minors

The Cognitive Science minor is designed to introduce students to cognitive science topics as addressed in a number of different disciplines, such as biology, computer science, engineering, linguistics, mathematics, philosophy, and psychology, while allowing them to pursue a more in-depth study of cognitive science topics within specific areas of their own choice.

**CONSERVATION BIOLOGY**

*Department of Ecology and Evolutionary Biology*

https://www.eeb.ucla.edu/ugrad_convservation.php

The **Conservation Biology** minor seeks to provide students with a greater depth of experience and understanding the role that science can play in developing conservation policy. The minor was established in Spring, 2007. Students in the Conservation Biology minor are encouraged to participate in field research, especially as part of the Field Biology Quarter (FBQ) or the Marine Biology Quarter (MBQ). The FBQ and MBQ are quarter-long research opportunities for advanced undergraduates who wish to experience the life of a field or marine biologist.

**EVOLUTIONARY MEDICINE**

*Department of Ecology and Evolutionary Biology*

https://www.eeb.ucla.edu/ugrad_evmed.php

The **Evolutionary Medicine** minor is designed for students who wish to augment their major program of study with courses that combine the disciplines of ecology and evolutionary biology, anthropology, psychology, and zoology with medicine to create new paradigms for investigating and understanding disease. The minor seeks to provide students with a greater depth of experience and understanding of the integration of evolutionary biology and medical education

**MATHEMATICAL BIOLOGY**

*Computational & Systems Biology Interdepartmental Undergraduate Program*

www.casb.ucla.edu

The Mathematical Biology minor introduces undergraduate students to an active interdisciplinary research field at UCLA. The minor core examines biological systems in a holistic and quantitative manner by emphasizing systems and integrative principles in biology. Students who complete the minor have sufficient training to apply the knowledge they learn in graduate school or employment of their choice.

**NEUROSCIENCE**

*Neuroscience Interdepartmental Undergraduate Program*

http://www.neurosci.ucla.edu/neuroscience-minor.html

The Minor in **Neuroscience** is designed to allow students in other majors an opportunity to explore the interdisciplinary field of neuroscience in a structured and rigorous way, while at the same time pursuing a major field of study in another discipline.

**SOCIETY AND GENETICS**

*UCLA Institute of Society and Genetics*

https://socgen.ucla.edu/academics/undergraduate/minor/

Learn about the various problems and possibilities of modern genetics, especially in their social context, by pursuing a minor in **Society and Genetics**. Genetically modified foods, forensic uses of DNA, new cloning technologies, gene testing and therapies, genetic privacy, gene patents, mapping DNA through human history, politics of race and heredity, and genetics of behavior are just some of the contested topics you are likely to encounter through coursework in the minor. Opportunities are also available for faculty supervised individual studies coursework and research apprenticeships.

**STRUCTURAL BIOLOGY**

*Computational & Systems Biology Interdepartmental Program*

www.casb.ucla.edu

The Structural Biology minor introduces undergraduate students to an active interdisciplinary research field at UCLA. It examines biological systems in a holistic and quantitative manner by emphasizing systems and integrative principles in biology and consists of lower-division courses basic to the minor, plus three core courses and one option course that provide the needed background in structural biology, biologic microscopy, and biochemistry. Students who complete the minor have sufficient training to apply the knowledge they learn in graduate school or employment of their choice.

**SYSTEMS BIOLOGY**

*Computational & Systems Biology Interdepartmental Program*

www.casb.ucla.edu

The Systems Biology minor introduces undergraduate students to an active interdisciplinary quantitative biosciences research and teaching field at UCLA. It offers a coherent course plan encompassing basic foundations of the field. Beside broadening student knowledge in systems biology, the minor provides students with enhanced perspective about computational and systems biology methods and applications and better prepares students to make more informed choices about their future directions and careers. The minor consists of lower-division courses basic to the minor, a survey seminar course, and four core courses and one option course that provide the needed background in molecular and cell biology, computational and systems engineering, and mathematical modeling and simulation methods for biological systems.

**WHAT CAN YOU DO WITH A MAJOR IN THE LIFE SCIENCES?**

Ever wonder what you could do with a major in the ***Life Sciences***? Following is a ***partial*** list of potential career choices. Some of these careers may require additional education or training beyond a bachelor's degree, while others may not.

A listing of some career resources available on the web:

**American Institute of Biological Sciences**
Information about careers in biological sciences, includes job postings.
***https://www.aibs.org/careers/***

**U.S. Department of Labor, Bureau of Labor Statistics – Occupational Outlook Handbook**
Includes detailed information on hundreds of careers, including training, salaries and future employment outlook. (Retrieved July 24, 2013, from http://www.bis.gov/ooh/home.htm)
***http://www.bls.gov/ooh/home.htm***

**Princeton University, Outdoor Action Guide to Outdoor & Environmental Careers**
A resource guide which presents resources to a career working outdoors or with the environment. (Retrieved July 24, 2013, from http://www.princeton.edu/~oa/jobs/careeroe.html)
***http://www.princeton.edu/~oa/jobs/careeroe.html***

**Ecological Society of America**
Primary professional organization of ecologists, representing more than 10,000 scientists in the United States and worldwide. (Retrieved July 24, 2013, from http://www.esa.org/careers_certification/)
***http://www.esa.org/careers_certification/***

**FASEB: Federation of American Societies for Experimental Biology**
Includes Life Science Job Center.
***http://www.faseb.org/#sthash.a7VXYhMw.dpbs***

**JobWatch**
Job posting and career development site for clinical research professionals of all levels. (Retrieved July 24, 2013, from http://www.centerwatch.com/jobwatch/)
***http://www.centerwatch.com/careers/careers.html***

**UCLA Career Center**
Offers career counseling services, pre-professional advising services, career resource library, career workshops and events, internship and externship information.
***http://www.career.ucla.edu***

**Over 580 Careers in Life Sciences . . .**

Acarologist
Activist
Actuopalynologist
Aerobiologist
Agricultural Commodity Grader
Agricultural Engineer

Agricultural Entomologist
Agricultural Genetic Engineering
Agricultural Inspector
Agricultural Management
Agronomist
Agrostologist
Algal Technician
Algologist
Allergist
Anatomic Pathologist
Anatomist
Andrologist
Anesthesiologist
Anesthesiologist Assistant
Animal Behaviorist
Animal Breeder
Animal Husbandry Technician
Animal Nutritionist
Animal Pathologist
Animal Trainer
Animal Wrangler for Film or TV Production
Aquaculture
Aquaculture Microbiologist
Aquarist
Aquarium Curator
Aquarium Laboratory Assistant
Aquatic Botanist
Aquatic Chemist
Aquatic Ecologist
Arboretum Manager
Arboriculture
Arborist
Archaeological Palynologist
Artificial Life Modeler
Art Therapist
Assisted Living Coordinator
Astrobiologist
Athletic Trainer
Audiologist
Avian Ecologist
Avian Pathologist
Avian Veterinarian
Aviculturist
Bacteriologist
Bariatric Medicine
Behavioral Ecologist
Behavioral Geneticist
Behavioral Pediatrician
Benthic Marine Ecologist
Bioanalyst
Bioethicist
Biohydrologist
Bioinformatics
Biological Chemist
Biological Engineering
Biological Field Surveyor
Biological Materials Supplier
Biological Quality Assurance Manager
Biological Systems Engineering
Biological Warfare Research
Biomathematician
Biomedical Engineering
Biomedical Physicist
Biometeorologist
Biometry
Biophysicist
Biophotonics
Bioprocess Technician
Biospace
Biostatistician
Biotechnology Research
Biotechnology Sales
Blood Bank Technician
Botanical Garden Management
Botanist
Brachiopodologist
Brewmaster
Bryologist
Cardiac Rehabilitation Specialist
Cardiologist
Cardiothoracic Surgeon
Cardiovascular Pathologist
Cardiovascular Technologist/Technician
Career Counselor
Case Manager in Health Care
Cattle Rancher
Cell Biologist
Cell Culture Technician
Cell Physiologist
Certified Nursing Assistant
Chemotaxonomist
Chiropractor
Clinical Data Specialist
Clinical Laboratory Technologist/Technician

Clinical Nutritionist
Clinical Pharmacologist
Clinical Psychologist
Clinical Research Administrator
Clinical Research Associate
(Pharmaceutical company)
Clinical Trials Director
Commercial Diver
Commercial Nursery Plant Grower
Community Health Nurse
Computer-assisted Drug Design
Conservation Biologist
Conservation Planner
Consultant Pharmacist
Consultant in Hospital Management
Consumer Safety Officer
Cooperative Extension Service Worker
Coroner
Cosmetic Product Formulation Research
County Agricultural Commission
Crime Lab Technician
Critical Care Physician
Critical Care Nurse
Crop Science
Customs Inspector
Cytologist
Cytopathologist
Cytotechnologist
Dairy Management
Dairy Quality Control
Dance Therapist
Database Curator
Deep-Sea Marine Biologist
Dendochronologist
Dental Hygienist
Dentist
Dermatologist
Developmental Biologist
Diagnostic Medical Sonographer
Dietician
Dispensing Optician
Documentary Filmmaker
Dog Trainer
Drug Discovery
Drug Supplies Coordinator
Ecoenterpreneur
Ecologist
Economic Botanist
Ecosystem Ecologist
Ecosystem Modeling
Ecotour Guide
Editor of a Scientific Journal
Educational Coordinator
(Zoos or Museums)
Educational psychologist
Educator at an environmental center
Electroneurodiagnostic Technologists
Embryologist
Emergency Medical Technicians
Emergency Medicine Physician
Endocrinologist
Endodontist
Enologist
Entomologist
Environmental Law Attorney
Environmental Biology (Public Health)
Environmental Business Specialist
Environmental Consultant
Environmental Educational Specialist
Environmental Engineer
Environmental Epidemiologist
Environmental Health
and Protection Services
Environmental Impact Analyst
Environmental Journalist
Environmental Physiologist
Environmental Planner
Environmental Policy Advisor
Environmental Protection Agency
Environmental Toxicologist
Epidemiologist
Equine Veterinarian
Ergonomic Consultant
Estuarine Ecologist
Ethnobotanist
Ethnomedical Pharmacologist
Ethologist
Evolutionary Biologist
Evolutionary Protistology
Exercise Physiologist
Exotic Animal Nutritionist
Exotic Animal Training and Management
Experimental Embryologist
Experimental Pathologist
Experimental Psychopharmacologist
Extension Agent (Farm Advisor)

Exterminator
Family Medicine Physician
Farmer
FBI Special Agent (Forensics)
Federal Plant Protection and Quarantine Officer
Fermentation Researcher
Field Ecologist
Field Sampling Supervisor
Field Station Manager
Fingerprint Identification Technologist
Fire Management Officer
Fish Culturist
Fish and Game Molecular Biologist
Fish and Wildlife Law Enforcement
Fishery Biologist
Fisheries population dynamicist
Fisheries statistician
Floriculturist
Florist
Food Science
Food Technologist
Forensic Ecologist
Forensic Entomologist
Forensic Epidemiologist
Forensic Edontologist
Forensic Palynologist
Forensic Pathologist
Forensic Psychiatrist
Forensic Scientist
Forensic Service Technician
Forest Ecologist
Forest Economist
Forester
Forest Geneticist
Forest Products Technologist
Forestry Technician
Freelance Writer on Scientific or Environmental issues
Fundraiser for Environmental Organization
Game Manager
Game Rancher
Gardener
Garden seed production
Genetic Counselor
Genetics
Geodesist
Geriatrician
Gerontologist
GIS Specialist (Geographic Information System)
Golf Course Manager
Greenhouse Assistant
Guide Dog Trainer
Habitat Restoration
Hand Surgeon
Hazardous Waste Manager
Head and Neck Surgeon
Health Care Distributor
Health Care Equipment Salesperson
Health Care Law Attorney
Health Care Management and Administration
Health Department Inspector
Health Educator
Health Information Administrator
Health Sciences Librarian
Health Services Research
Health Services Surveyor
Health Systems Administration
Hematologist
Hepatologist
Herbalist
Herbarium Curator
Herpetologist
Histological Technician/Technologist
Historian of Science
Homeopathic Medicine Practitioner
Horse Breeder
Horticultural Therapist
Horticulturalist
Hospice Manager
Hospital Administration
Hydrologist
Hygienist
Ichthyologist
Illustrator (Biological, Medical, Scientific)
Imaging Science (Medical)
Immunogenetics
Immunologist
Industrial Hygienist
Industrial Quality Control
Industrial Research and Development
Industrial Waste Specialist
Infectious Disease Specialist

Informational Biology
Informatics
Insect Molecular Biology
Insect Quarantine Inspector
Instructor at Children's Science Camp
Intellectual Property Law Attorney
Intensive Care Nurse
Internist
Interpretive Naturalist
Invertebrate Biologist
Laboratory Animal Science
Laboratory Immunologist
Landscape Contracting
Landscape Design
Lichenologist
Limnologist
Lobbyist
Magazine/Newspaper Fact checker
Mammalogist
Manufacturing Associate (Biotechnology)
Mariculturist
Marine Archaeologist
Marine Benthic Ecologist
Marine Biologist
Marine Economist
Marine Illustrator
Marine Issues law Attorney
Marine Mammalogist
Marine Mammal Rescue
Marine Mammal Trainer
Marine Toxicology
Massage Therapist
Maternal and Child Health (Public Health)
Mathematical Biologist
MediCal Case manager
Medical Entomologist
Medical Anthropologist
Medical Ethicist
Medical Imaging
Medical Informatics
Medical Librarian
Medical Microbiologist
Medical Record Administrator
Medical Records Technician
Medical Sociologist
Medical Supply Sales
Medical Transcriptionist
Medical Writer
Medicinal Plant Cultivator
Microbial Ecologist
Microbiologist
Microscopist
Midwife
Molecular Anthropology
Molecular Biologist
Molecular Diagnostician
Molecular Geneticist
Molecular Neurobiologist
Molecular Pathology
Molecular Pharmacology
Molecular Psychiatry
Molecular Toxicologist
Morphologist
Mortician
Museum Collections Manager
Museum Curator
Museum Educational Director
Museum Public Relations Director
Music Therapist
Mycologist
National Park Service
Naturalist
Natural Product Chemist
Natural Resource Management
Natural Resource, Energy, and Environmental Law Attorney
Nature Cartographer
Nature Center Director
Nature Photographer
Nature Writer
Nematologist
Neonatologist
Nephrologist
Neurobiologist
Neuroendocrinologist
Neurologist
Neurosurgeon
Nuclear Medicine Technologist
Nurse
Nurse Anesthetist
Nurse Practitioner
Nursery Manager
Nursing Home Manager
Nutritionist
Obstetrician/Gynecologist

Occupational Safety and Health
Occupational Therapist
Ocean Modeler
Oceanographer
Olericulturist
Oncological Pharmacologist
Oncologist/Surgical oncologist
Operating Room Nurse
Ophthalmic Medical Technologist
Ophthalmologist
Optician
Optometric Researcher
Optometrist
Oral Biologist
Oral Pathologist
Oral Surgeon
Orchardist
Ornithologist
Orthodontist
Orthopedic Surgeon
Orthotics and Prosthetics
Osteologist
Osteopathic Physician
Otolaryngologist
Pelagic Zoologist
Paleobotanist
Paleoecologist
Paleogenomics
Paleolimnologist
Paleontologist
Paleopalynologist
Palliative Care Specialist
Palynologist
Paramedic
Parasitologist
Park Naturalist
Park Ranger
Parks and Recreation Planning
Patent Agent
Patent Attorney
Pathologist
Patient Advocate (Hospital)
Peace Corps Representative
Pediatrician
Pediatric Oncologist
Pediatric Pharmacotherapy
Perfusionist
Periodontist
Personal Trainer
Pesticide Researcher
Pet Psychologist
Pet Store Manager
Pet Supplies Executive
Pharmaceutical Attorney
Pharmaceutical Materials Specialist
Pharmaceutical Researcher
Pharmaceutical Sales Representative
Pharmacist
Pharmacogenetics
Pharmacogenomics
Pharmacokineticist
Pharmacologist
Pharmacy Assistant/Technician
Phlebotomist
Photojournalist
Phycologist
Physical Medicine and Rehabilitation
Physical Anthropologist
Physical Aceanographer
Physical Therapist
Physician
Physician Assistant
Physiological Ecologist
Physiologist
Phytochemist
Phytogeographer
Phytopathologist
Plant Anatomist
Plantation Manager
Plant Biochemist
Plant Breeder
Plant Ecologist
Plant Explorer
Plant Hydrologist
Plant Pathologist
Plant Pest Control Inspector
Plant Physiologist
Plant Propagator
Plant Quarantine Inspector
Plant Taxonomist
Plastic and Reconstructive Surgeon
Podiatrist
Pollen Analyst
Polychaete Researcher
Pomologist
Population Biologist

Population Geneticist
Poultry Technologist
Producer of Educational films
Protein Purification Scientist
Protozoologist
Psychiatrist
Psychotherapeutics
Psychotropist
Pteridologist
Public Health worker
Public Health Researcher
Public Policy Organization
Public Relations Officer
Publisher of Scientific Books
Quality Assurance Tester
Pulmonary Medicine
Radiation Safety
Radiobiologist
Radiological Technician
Radiologist
Rancher
Range Conservationist
Rangeland Management
Recycling Plant Manager
Registered Dietician
Rehabilitation Counselor
Research Technician/Assistant
Research Vessel Captain
Researcher for Environmental Organization
Resource Manager
Respiratory therapist
Restoration ecologist
Review Course Tutor (Kaplan, etc.)
Rheumatologist
Science Editor
Science Librarian
Scientific Information Analyst
Scientific Photographer
Scientific Proofreader
Scientific Supply Catalog Copywriter
Scientific Writing and Journalism
Seed Analyst
Serologist
Sewage Treatment Plant Manager
Show Dog Handler
Sign Language Interpreter
Silviculturalist
Small Animal Veterinarian
Social Ecologist
Soil Conservationist
Space Medicine Specialist
Speech Language Pathologist
Sports Medicine
State Fish and Wildlife Service
Structural Biologist
Supply House Purchaser
Surgeon
Surgical technologist
Systematist
Systems Ecologist
Taxonomist
Teaching at the College Level
Teaching Elementary School
Teaching Science in Middle school
Teaching Science in High School
Technical Editor
Technical Recruiter
Technical Services Representative for Biosupply firm
Technical Writer
Technology Transfer and Patent Law
Test Preparation Instructor (SAT, MCAT, etc.)
Textbook Publishing and Sales
Toxicologist
Transfusion Medicine
Translator of Scientific Material
Travel Medicine Physician
Tropical Ecologist
Turfgrass Culturist
Ultrasound Technologist
Underwater Photographer
Urologist
Vector Control Specialist
Veterinarian
Veterinary Anatomy
Veterinary Assistant/Technician
Veterinary Epidemiologist
Veterinary Geneticist
Veterinary Pathologist
Viticulturist
Virologist
Vision Rehabilitation Specialist
Vivarium Manager
Vocational Rehabilitation Counselor

Volunteer Coordinator for an Environmental or Health Care Organization
Waste Management
Water Conservation Officer
Water Pollution Investigator
Water Quality Controller
Water Quality Modeller
Water Quality Technician (Aquarium)
Watershed Manager
Website Designer
Wildlife Biologist
Wildlife Conservation
Wildlife Inspector
Wildlife Management
Wildlife Photographer
Wildlife Refuge Manager
Wildlife Rescue
Wood Products Manager
Workers' Compensation Case Manager
Xenobiologist
Zoo Director
Zoo Geneticist
Zookeeper
Zoo Registrar
Zoo Veterinarian

**U.S. Government Careers**

***Job opportunities with the federal government***
https://www.usajobs.gov/

***Department of Agriculture*** (*http://www.usda.gov/*)
- Animal and Plant Health Inspection Service
- Center for Nutrition Policy and Promotion
- Food and Nutrition Service
- Food Safety and Inspection Service
- Foreign Agricultural Service
- Forest Service
- Natural Resources Conservation Service

***Department of Commerce*** (*http://www.doc.gov/*)
- National Marine Fisheries Service
- Office of Protected Resources
- Office of Ocean Resources Conservation and Assessment (ORCA)
- Northwest Fisheries Science Center
- National Oceanic and Atmospheric Administration
- Pacific Marine Environmental Laboratory

***Department of Energy*** (*http://www.energy.gov/)*
- Office of Health and Environmental Research
- Office of Science Education and Technical Information

***Department of Health and Human Services*** (*http://www.hhs.gov/)*
- National Health Information Center
- Office of Disease Prevention and Health Promotion
- Office of Public Health and Science
- Office of Disease Prevention and Health Promotion
- Office of Minority Health Resource Center

***Department of the Interior*** (*http://www.doi.gov/*)

Fish and Wildlife Service
U.S. Geological Survey
National Biological Service
National Park Service
Environmental damage assessment
Natural resource restoration
Wild Horse and Burro Program

***Department of Justice*** (*http://www.usdoj.gov/)*

Drug Enforcement Administration
FBI Forensic Laboratory Specialist

***Department of Labor*** (*http://www.dol.gov/)*

Mine Safety and Health Administration
Occupational Safety and Health Administration (OSHA)

***Department of the Treasury*** (*http://www.ustreas.gov/*)

U.S. Customs Service

**California State Government Careers**

***Job opportunities with the California state government***
https://www.calcareers.ca.gov/

***Job opportunities with Los Angeles County government***
*https://www.lacounty.gov/job-opportunities/*

***Job opportunities with the City of Los Angeles***
*https://www.lacity.org/find-jobs*

***Job opportunities with UCLA***
http://www.ucla.edu/about/careers