

SCI:

SCIENCE CAREER
INVESTIGATION



FINDING YOUR FUTURE

iBIO Institute Guide to Life Sciences Careers

iBIO INSTITUTE

EDUCATION • TRAINING • RESEARCH

Start your search

www.finding-your-future.com


What do you want to be? Your future is wide open. If you aren't yet certain about the path that lies ahead, we want you to explore and discover how your interests and passion can be used in many different fields. Go after your dreams!

Here to help

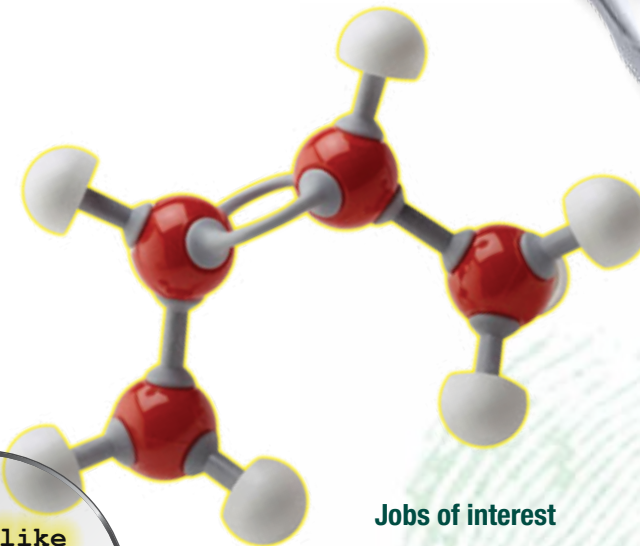
Taking the first step toward your future sometimes can be overwhelming. The good news is that we're here to help. Our website www.finding-your-future.com is designed for you to use as a guide. We created it to show how you can match your interests to the many job opportunities offered in the life sciences industry.

Interest questions

- **Interested in technology?** You might work well in the medical device industry
- **Enjoy working with food and animals?** A career in agriculture might be in your future
- **Do you like testing new ideas?** You could be a perfect fit for a future in research and testing



Do you like
to solve
problems and
discover
new things?



Jobs of interest

The life sciences industry is rapidly growing. Life sciences jobs are diverse and appropriate for many different skill sets. On the following pages are a few popular life sciences jobs and some information about them. Please visit www.finding-your-future.com to find more job descriptions.

Job files 101

Wondering what jobs are out there? On our website we provide information on 253 jobs in the life sciences. Our website and the profiles below provide you with specific information you would want to know—job titles, descriptions, education prerequisites for obtaining a job, salaries, and what to anticipate once employed. Details will vary from company to company, and salary data

Job	Software Engineer
Description	Creates software components and applications for medical products. Analyzes, designs, programs, debugs, and modifies software enhancements and/or modification of computer programs.
Education Needed	BS in computer science or software engineering and 0-2 years of experience
Salary Range	\$43,000-\$106,670
Yearly Job Openings	1377

Job	Quality Assurance Manager
Description	Assures that products, processes, facilities, and systems conform to quality standards and governmental regulations.
Education Needed	BS in related scientific discipline and 3-5 years experience in quality control/quality assurance. Must be familiar with industry regulatory requirements and Good Laboratory/Manufacturing Practice
Salary Range	\$64,000-\$96,000
Yearly Job Openings	502

Job	Biomedical Engineer
Description	Applies knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems.
Education Needed	BS or MS and 0-2 years of experience
Salary Range	\$59,010-\$105,360
Yearly Job Openings	24

do not include types of benefits (insurance, retirement options, bonuses, etc) that are common in the life sciences. The data on our website and in the following job descriptions come from a 2008 Battelle Memorial Institute study conducted by the Council for Adult Experiential Learning and from job data provided by the Illinois Department of Commerce and Economic Opportunity (DCEO).

Job	Product and Marketing Manager
Description	Manages market research needs for products and services within the organization. Conducts and manages primary and secondary market research projects, including labeling and advertising. Provides marketing insight and direction to optimize new product launch.
Education Needed	BS/MS in life sciences or MBA and 3-6 years of related experience
Salary Range	\$80,000-\$120,000
Yearly Job Openings	323

Job	Biochemist
Description	Studies the chemical composition of living things. Analyzes the complex chemical combinations and reactions involved in metabolism, reproduction, and growth.
Education Needed	BS, MS, or PhD in biochemistry or biological sciences and 0-2 years of related experience
Salary Range	\$62,410-\$75,140
Yearly Job Openings	109

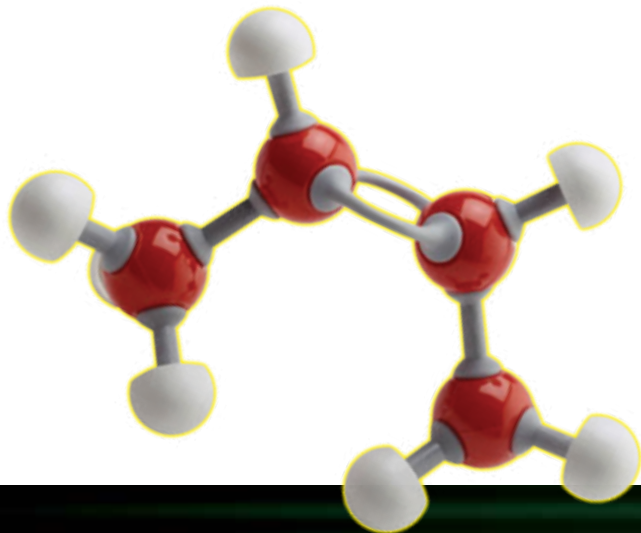
"The US Bureau of Labor Statistics projects that bioscience employment will grow at an annual rate 13 percent above that of other industries."¹

1. Science for life. Biotechnology Industry Organization Web site. www.bio.org/speeches/pubs/biotech/econgrowth.asp. Accessed July 8, 2009.

Real-life examples

In the rest of this brochure you'll read a few real-life profiles. When you go to www.finding-your-future.com and click on case studies within each section, you'll get more information about real-life professionals like Laura Stine. Find out how these professionals got started in their fields.

Take your time and have some fun browsing through the different interest sections of the site. Write down some of the jobs that intrigue you and why you are attracted to them. If you can, talk to people you know who are connected to the life sciences industry, or ask your guidance counselor for more information.

**Name**

Laura Stine

Job Title

Research Associate III

Company

Baxter International

City/State

Round Lake, IL

Education

BS, Chemistry, and a minor in mathematics, Southern Illinois University in Carbondale



As a research chemist at Baxter International, I help to develop new products, troubleshoot manufacturing issues, and also work on sustaining products that are on the market. There are many things that I like about my job. It is not very routine. Each day brings new challenges and opportunities to use my mind, and I appreciate the ability to be up and about in the laboratory and not stuck at a desk all day. It is very rewarding to know that I am making a difference in people's lives around the world. Learn more about Laura at: www.finding-your-future.com.

SCIENCE CAREER PROFILE

Name

Ron Cureton

Job Title

Resident Inspector,
Catawba Nuclear Station

Company

US Nuclear Regulatory
Commission

City/State

York, SC

Education

BS, Electrical Engineering, Florida
Agricultural & Mechanical University

In school, math was always my favorite subject, although I liked some types of math more than others. I liked finding solutions to problems using a logical process. What I like most about my job is that I get to look into various technical fields such as engineering (civil, electrical, mechanical, and nuclear), chemistry, and physics. The impact of my job on society stems from making sure the commercial use of nuclear power is done safely, which is tied directly to the NRC mission statement of "Protecting People and the Environment." Learn more about Ron at: www.finding-your-future.com.

SCIENCE CAREER PROFILE

Name

Benjamin Stone

Job Title

President/CEO

Company

Stone Medical Corporation

City/State

Moline, IL

Education

BS, Biology,
University of Iowa

As an entrepreneur and President/CEO of the Stone Medical Corporation, I am responsible for management of the company's operations; this includes overseeing clinical trials, commercial development of our product line, fundraising, intellectual property development, and strategic planning of future operations. What I like most about my job is that I am free to learn, work, and develop in nearly any area related to the business that interests me. There are very few limitations on what I can learn and apply to the business. My advice for students: while science and technology are fundamental to the development of our world, one should always push themselves to the deepest understanding and appreciation of as many areas as possible. A narrow view of the world often leads to narrow results. Learn more about Ben at: www.finding-your-future.com.



SCIENCE CAREER PROFILE

Name

Kimberly A. Williams

Job Title

Patent Examiner

CompanyUS Patent &
Trademark Office**City/State**

Alexandria, VA

EducationBS, Electrical Engineering, North
Carolina Agricultural & Technical
State University

I have a career in Intellectual Property. I use proper research methods to examine patent applications. My job is to ensure that an invention is new and useful, and once the invention has been proven to be unique, I grant a Patent to the inventor(s). In my senior year in high school, my Latin teacher, Ms. Peterson, encouraged me to pursue a degree in engineering because I excelled academically in math and science. The field of science is so diverse, there's no limit to where a good foundation in science might lead you. For me, it led to an electrical engineering career. Some have gone on to study biology and chemistry; others have chosen to study law. There is a high demand in this country for individuals in the sciences. Learn more about Kim at:

www.finding-your-future.com.



SCIENCE CAREER PROFILE

Name

Kelly Swanson

Job Title

Assistant Professor

Company

University of Illinois

City/State

Urbana, IL

EducationBS, Animal and Range
Sciences, North Dakota State University;
MS, Nutritional Sciences, University of Illinois;
PhD, Nutritional Sciences, University of Illinois

I am an Assistant Professor in the Department of Animal Sciences at the University of Illinois, Urbana-Champaign (UIUC). Growing up on a small family farm inspired me to work in the animal sciences/animal biology field. I was pre-vet throughout high school and for a couple of years as an undergraduate student. However, my instructors at NDSU really increased my interest in nutrition, which was enough to change my career choice to focus on nutritional sciences. I think my job indirectly influences the pet food industry in many ways and my research directly impacts the pet foods sold in the US and throughout the world. My favorite part of my job is grading final exams because I can see all that the students have learned. It is very rewarding to see a student's knowledge of a topic blossom over the course of a semester. My advice to students would be to get as much work or volunteer experience in possible career choices as possible in high school and as an undergraduate. These experiences will identify which career may be best for you to work toward (and those that are not) and will help build your resume for the future. Learn more about Kelly at: **www.finding-your-future.com.**

SCIENCE CAREER PROFILE

Name

Enrique Domingo Kreff

Job Title

Research Scientist

Company

Pioneer Hi-Bred International

City/State

Pergamino, Buenos Aires, Argentina

Education

BS in Agronomy, Faculty of Agricultural Sciences,
National University of Mar del Plata, Argentina;
MSc in Plant Genetics, National University of
Rosaria, Argentina



I am a geneticist in the maize (corn) breeding program of Pioneer Hi-Bred International in Argentina. Maize productivity affects the availability of food for an increasing world population and is important in decreasing worldwide hunger. I have always been interested in science. When I was very young I lived on a farm. I did not have access to scientific publications so I enjoyed looking up scientific information in books and magazines. I have experienced some challenges in my career, but when you enjoy what you do, the challenges are only steps that you have to overcome. Learn more about Enrique at: www.finding-your-future.com.



SCIENCE CAREER PROFILE

Name

Kristi L. Lengyel

Job Title

Assistant Director—Advocacy
& Alliance Development

Company

Takeda Pharmaceuticals
North America, Inc.

City/State


Deerfield, IL

Education

BS, Chemistry, St Vincent College, Latrobe, PA;
MBA, University of Chicago



My position incorporates law, government, and science. I work in Government and External Affairs; my team is responsible for tracking and influencing legislation through lobbying legislative bodies and administrations at the federal and state levels to ensure sound public policy regarding health care. The advocacy and alliance development function is responsible for developing, maintaining, and solidifying partnerships with advocacy organizations to support public policy. My job is important to society because it identifies and manages programs that assist uninsured/underinsured patients' access to medicines. Science promotes innovation. I like to use my mind to solve problems and science provides an approach to solve problems in all walks of life. In pursuing a science career, keep a positive attitude and continue to challenge yourself. Science may be more difficult in school but challenge yourself and opportunities are endless after completing your education. Learn more about Kristi at: www.finding-your-future.com.





65 East Wacker Place Suite 1600
Chicago, IL 60601
P: 312.422.1111 F: 312.422.1145

www.ibioinstitute.org