Career Outlooks
Career Services points you in the right direction!

Biology Career Outlook 2014–2015

Biology Programs Available at Bemidji State University:
Major: Biology (B.S., B.A.), Wildlife Biology (B.S.), Science Education (B.S.) – Life Science Teacher Licensure, Aquatic Biology (B.S.) – see separate Career Outlook
Field of Emphasis: Cellular Molecular Biology (B.S.), Medical Sciences (B.S.)
Related Program: Medical Laboratory Science (B.S.) – see separate Career Outlook
Minors: Biology, Wetlands Ecology
Department Website: http://www.bemidjistate.edu/academics/departments/biology

MAJOR HIGHLIGHTS:
Biology is the science of life. Biologists study all living things and their interactions with their environments. The study of human biology helps us to understand ourselves, and the study of other life forms helps us to understand them and the world we share. Because the field of biology extends to so many areas, from viruses to blue whales, it offers diverse opportunities for personal and professional study and growth.

EMPLOYMENT AREAS:
The "Occupational Outlook Handbook" reports that biological technicians held about 80,200 jobs in 2012. About 32 percent of all biological technicians were employed by colleges, universities, and professional schools; another 23 percent were employed by research and development in the physical, engineering and the life sciences; 15% were employed by the federal government; 8% were employed by chemical manufacturing; 8% were employed by hospitals, state, local, and private; and 4% were employed by testing laboratories. The majority of the rest of the biological technicians worked in the pharmaceutical and medicine manufacturing and the healthcare field.

PROJECTED DEMAND FOR BIOLOGY MAJORS IN MINNESOTA:
According to iseek.org, 670 biologists are employed in Minnesota, though competition for openings will be high due to the small number of jobs at the moment. Pay is closely tied to level of education. The median wage for a Biologist in Minnesota is $26.78 an hour.

PROJECTED DEMAND FOR BIOLOGY MAJORS NATIONWIDE:
Focus™2 reports the nationwide demand for biologists is expected to grow slower than average through 2022 driven by growth in research and development of the biotech industry, with people established in their career generally earning between $51,850 and $90,400 per year, primarily with advanced degrees. A bachelor's degree is adequate for many non-research positions in biology. However, a master's degree is often required for applied research and jobs in management and a Ph.D. for college teaching. According to the National Association of Colleges and Employers, beginning salary averaged $40,700 per year for a biologist with a bachelor's degree in 2012.

PLACEMENT INFORMATION FOR BIOLOGY GRADUATES:
Of the Bemidji State University 2012-2013 Biology graduates holding a BA, 57.1% reported related employment. Of the 2012–2013 Biology graduates holding a BS, 64.3% reported obtaining related employment within one year of graduation, with 34.3% continuing their education. This does not include students who were not seeking employment, unavailable, or had unknown status.

LIST OF EMPLOYERS WHO HAVE REPORTED HIRING BSU BIOLOGY GRADUATES: (This list only includes employment within one year of graduation.)

<table>
<thead>
<tr>
<th>Employer</th>
<th>Position</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M</td>
<td>Occupational Health Specialist</td>
<td>St. Paul, MN</td>
</tr>
<tr>
<td>Aerotek Scientific</td>
<td>Analytical Chemist</td>
<td>Woodbury, MN</td>
</tr>
<tr>
<td>Aitkin School District</td>
<td>Paraprofessional</td>
<td>Aitkin, MN</td>
</tr>
<tr>
<td>Alaska Department of Fish and Game</td>
<td>Fish &amp; Wildlife Technician</td>
<td>Palmer, AK</td>
</tr>
<tr>
<td>Altru Health Systems</td>
<td>Pathology Lab Clerk</td>
<td>Grand Forks, ND</td>
</tr>
<tr>
<td>Animal Care Clinic</td>
<td>Veterinary Assistant</td>
<td>Bemidji, MN</td>
</tr>
<tr>
<td>Bemidji Ambulance Service</td>
<td>Paramedic</td>
<td>Bemidji, MN</td>
</tr>
<tr>
<td>Bemidji Veterinary Hospital</td>
<td>Kennel Staff</td>
<td>Bemidji, MN</td>
</tr>
<tr>
<td>Boston Scientific Scimed</td>
<td>Lab Technician</td>
<td>Maple Grove, MN</td>
</tr>
</tbody>
</table>
Bureau of Land Management
Botanist
Grangeville, ID

Clay County
Clean Harbors
Comanche Ranch
Cushman & Wakefield
Department of Natural Resources
Department of Veterans Affairs
DiaSorin, Inc.
Dodge Nature Center
EC & T
Ecolab
EMD Biosciences
First Care Hospital
FirstLight Health System
Florida Fish & Wildlife Conservation Commission
Gluek Brewing Company
Great Plains Zoo
Hartley Nature Center
Headwaters Science Center
Hillborough Community College
Hubbard Soil and Water Conservation District
Immunochemistry Technologies, LLC
INCS, Inc.
Innovative Surface Technologies
Jackson County Soil & Water
Lakewood Health System
Mercy Medical Center
Minnesota VA Health Care System
Minnesota DNR
MN Department of Natural Resources
MN DNR
MN DNR Ecological Services
MO Department of Natural Resources
MVTL Laboratories
Nebraska Game & Parks Commission
North Dakota State University
Oregon Department of Fish & Wildlife
Pheasants Forever
Precision Treeworks, Inc.
Rainy River Veterinary Hospital
Red Lake Watershed District
Red River Zoo
Regions Hospital
REM Homes
REM Northstar
Riverwood Healthcare Center
Sanford Health
Sanford Health
Schlitz Audubon Nature Center
Sherburne County
Solitude Lake Management
South Dakota GFP
The City of St. Cloud
The Leona Group, LLC
The Mentor Network-R.E.M
Underwater Adventures
US Fish & Wildlife Service
USDA Forest Service
USDA- Natural Resources Conservation Service
Wildlife Rehabilitation Center
Yoh Scientific

Bureau of Land Management
Environmental Assessment
Environmental Technician
Wildlife Intern
GIS Technician
Technician
Medical Technologist
Lab Technician
Naturalist
Lab Technician
Account Manager
Production Scientist
Medical Technologist
CNA
Biologist
Quality Control
Zookeeper
Environmental Education Intern
Collections Manager
Lab Technician
District Manager
Laboratory Production Associate
Assistant Director of Education
Staff Scientist
Water Resource Technician
Medical Technician
Phlebotomist
Medical Laboratory Scientist
Field Technician
Wildlife Lake Specialist
Shallow Lakes Intern
Building & Grounds Worker
Natural Resource Specialist
Wastewater Permit Writer
Lab Technician
Conservation Officer
Research Specialist
Experimental Biologist
Biologist
President
Veterinary Aide
Survey Construction
Animal Keeper
Lab Services Technician
Direct Care Specialist
Coordinator
Medical Lab Technician
Phlebotomist
Health Care Professional
Office Staff
Forest Technician Assistant
Aquatic Biologist
Elk Research Technician
Environmental Health Technician
Science Teacher
Direct Support Professional
Animal Educator
Biological Science Technician
Recreation Technician
Environmentalist
Intern
Lab Technician-Chemist

Grangeville, ID
Moorhead, MN
Cannon Falls, MN
Carizzo, TX
Minneapolis, MN
White Earth, MN
Minneapolis, MN
Stillwater, MN
St. Paul, MN
Superior, WI
St. Paul, MN
Madison, WI
Fosston, MN
Mora, MN
West Palm Beach, FL
Cold Spring, MN
Sioux Falls, SD
Duluth, MN
Tampa, FL
Park Rapids, MN
Bloomington, MN
St. Paul, MN
Lakefield, MN
Staples, MN
Des Moines, IA
Minneapolis, MN
Bemidji, MN
Brainerd, MN
Madelia, MN
Bemidji, MN
Bemidji, MN
Jefferson City, MO
New Ulm, MN
Lincoln, NE
Fargo, ND
The Dalles, OR
Marshall, MN
Bemidji, MN
Baudette, MN
Thief River Falls, MN
Fargo, ND
St. Paul, MN
Bemidji, MN
Ada, MN
Aitkin, MN
Bemidji, MN
Bemidji, MN
Milwaukee, WI
Elk River, MN
Virginia Beach, VA
Custer, SD
St. Cloud, MN
Phoenix, AZ
Bemidji, MN
Bloomington, MN
Devils Lake, ND
Walker, MN
Winona, MN
Roseville, MN
Myerstown, PA
COLLEGES AND UNIVERSITIES WHERE BSU BIOLOGY GRADUATES HAVE GONE TO CONTINUE THEIR EDUCATION:

Argosy University, Tampa, FL
Augsburg College of Medicine, Minneapolis, MN
Bemidji State University, Bemidji, MN
Central Lakes College, Brainerd, MN
College of Optometry, Memphis, TN
Dartmouth University, Hanover, NH
East Carolina University School of Medicine, Greenville, NC
George Washington University, Washington, DC
Hennepin Technical College, Brooklyn Park, MN
Indiana University-Bloomington, Bloomington, MN
Iowa State University, Ames, IA
Meharry Medical College, Nashville, TN
Midwestern University, Wichita Falls, TX
National College Of Chiropractic, LOMBARD, IL
North Dakota State University, Fargo, ND
Northwest Technical College, Bemidji, MN
Northwestern College of Chiropractic, Bloomington, MN
Northwestern Health Sciences University, Bloomington, MN
Northwestern University, Evanston, IL

Pacific University, Forest Grove, OR
South Dakota State University, Brookings, SD
Southern Illinois University, Carbondale, IL
University of New York, Buffalo, NY
University of Houston, Houston, TX
University of Iowa, Iowa City, IA
University of Michigan, Ann Arbor, MI
University of MN College of Pharmacy, Minneapolis, MN
University of Minnesota Medical School, Minneapolis, MN
University of Minnesota, Duluth, MN
University of North Dakota, Grand Forks, ND
University of Pikeville Medical, Pikeville, KY
University of St. Thomas, St. Paul, MN
University of Wisconsin-Oshkosh, Oshkosh, WI
Western Michigan University, Kalamazoo, MI
Western Nebraska Community College, Scottsbluff, NE
Wichita State University, Wichita, KS

Note 1: Some of the above job/career titles require advanced degrees or specialized training.
Note 2: Degrees alone do not get students jobs. Internships, summer jobs, volunteer work, part-time jobs, work-study positions, and active participation in student organizations on campus are all ways to become more competitive in a tight job market.
Note 3: Personal Competencies: it is also recommended that individuals be competent in a variety of communication methods, and computer skills are a must.

Bibliography:

FOCUS II. Career Dimensions Incorporated, Manchester, NH (2015)

For more information, please contact the Career Services Office in 207 Sattgast Hall or call us at 218-755-2038 or toll free at 800-657-3726.
For more job listings please visit:

http://www.bemidjistate.edu/students/services/career/job_search/jobs/