CAREER PATH

Natural Resources Agriculture

CAREER CLUSTER

Agriculture, Food and Natural Resources

CAREER PATHWAY

Natural Resources Systems

BIOLOGICAL SCIENTIST

Study living organisms and their relationship to the environment; perform research to gain a better understanding of fundamental life processes and apply that understanding to developing new products or processes; advances in biotechnology have created opportunities in almost all areas of biology, with commercial applications in areas such as medicine, agriculture, and environmental remediation.

Knowledge and Skills Needed

In addition to courses required for high school graduation, essential skills and knowledge needed for a career as a biological scientist are reinforced by taking rigorous and relevant courses, as well as participating in work-based experiences and student organization activities.

(See the Sample Personal Plan of Study for suggested coursework, activities, and knowledge and skills to pursue in preparation of an occupation in this Career Cluster.)

Education Requirements

Occupation	Percent of Missouri employees aged 25 to 44 in the occupation whose highest level of educational attainment is:		
	High School or Less	Some College	Bachelor Degree or More
Biological scientist, all other	1.0%	5.9%	93.2%
Life scientists	2.0%	8.7%	89.3%
Life, physical & social science	6.7%	14.3%	78.9%

Most Common Educational Level: Doctoral degree
Note: Be sure to learn whether your occupation has a specific requirement for education or licensing. Apprenticeships are available for more than 240 occupations. Visit www.oa.doleta.gov/bat.cfm

National and State Wage Information

Location	Pay Period	2008		
		Entry*	Median	Experienced**
United States	Hourly	$24.38	$31.29	$38.57
	Yearly	$50,700	$65,100	$80,200
Missouri	Hourly	$24.40	$29.85	$35.64
	Yearly	$50,800	$62,100	$74,100

Based on (*) lower 25% and (**) upper 25% percentile of wages

National and State Employment Trends

Food Scientist	Employment		Percent Change	Job Openings*
	2008	2018		
United States	31,700	37,600	+19%	1,610
Missouri	300	300	N/A	N/A

*The estimate for Job Openings includes both turnover that results from people who leave the occupation (e.g. quit, retire, death) and new jobs that are created.

Educational Opportunities

Note: This list may not be all inclusive. For more information about Missouri schools and programs, visit www.dhe.mo.gov

Avila University
Kansas City, MO
(816) 942-8400
www.avila.edu

Central Methodist University - College of Liberal Arts & Sciences
Fayette, MO
(660) 248-3391
www.centralmethodist.edu

College of the Ozarks
Point Lookout, MO
(417) 334-6411
www.cofo.edu

Columbia College
Columbia, MO
(573) 875-8700
www.ccis.edu

Crowder College
Neosho, MO
(417) 451-3223
www.crowder.edu

Culver-Stockton College
Canton, MO
(573) 288-6000
www.culver.edu

Drury University
Springfield, MO
(417) 873-7879
www.drury.edu

Evangel University
Springfield, MO
(417) 865-2811
www.evangel.edu

Fontbonne University
Saint Louis, MO
(314) 862-3456
www.fontbonne.edu

Hannibal-Lagrange College
Hannibal, MO
(573) 221-3675
www.hlg.edu

(more-over)

Updated May 2010 by the Missouri Department of Elementary and Secondary Education, Division of Career Education, www.dese.mo.gov/careered
Primary data source: CareerOneStop, www.careerinfonet.org

Lincoln University
Jefferson City, MO
(573) 681-5000
www.lincolnu.edu

Lindenwood University
Saint Charles, MO
(636) 949-2000
www.lindenwood.edu

Logan College of Chiropractic
Chesterfield, MO
(636) 227-2100
www.logan.edu

Maryville University of Saint Louis
Saint Louis, MO
(800) 627-9855
www.maryville.edu

Missouri Baptist University
Saint Louis, MO
(877) 434-1115
www.mobap.edu

Missouri Southern State University
Joplin, MO
(417) 625-9300
www.mssu.edu

Missouri State University
Springfield, MO
(417) 836-5000
www.missouristate.edu

Missouri University of Science and Technology
Rolla, MO
(573) 341-4111
www.mst.edu

Missouri Valley College
Marshall, MO
(660) 831-4000
www.moval.edu

Missouri Western State University
Saint Joseph, MO
(816) 271-4200
www.missouriwestern.edu

Northwest Missouri State University
Maryville, MO
(660) 562-1212
www.nwmissouri.edu

Park University
Parkville, MO
(816) 741-2000
www.park.edu

Rockhurst University
Kansas City, MO
(816) 501-4000
www.rockhurst.edu

Saint Louis University-Main Campus
Saint Louis, MO
(314) 977-2222
www.imagine.slu.edu

Southeast Missouri State University
Cape Girardeau, MO
(573) 651-2000
www.semo.edu

Southwest Baptist University
Bolivar, MO
(800) 526-5859
www.sbuniv.edu

Stephens College
Columbia, MO
(573) 442-2211
www.stephens.edu

Truman State University
Kirksville, MO
(660) 785-4000
www.truman.edu

University of Central Missouri
Warrensburg, MO
(660) 543-4111
www.ucmo.edu

University of Missouri - Columbia
Columbia, MO
(573) 882-2121
www.missouri.edu

University of Missouri - Kansas City
Kansas City, MO
(816) 235-1000
www.umkc.edu

University of Missouri - St. Louis
Saint Louis, MO
(314) 516-5000
www.umsl.edu

Washington University in St. Louis
Saint Louis, MO
(314) 935-5000
www.wustl.edu

Webster University
Saint Louis, MO
(314) 961-2660
www.webster.edu

Westminster College
Fulton, MO
(573) 642-3361
www.westminster-mo.edu

William Jewell College
Liberty, MO
(816) 781-7700
www.jewell.edu

William Woods University
Fulton, MO
(573) 642-2251 EXT:2251
www.thewoods.edu

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