

Target Group:



Occupational Profile

Microbiologist

Standard Occupational Code 19-1022.00

What They Do

Investigate the growth, structure, development, and other characteristics of microscopic organisms, such as bacteria, algae, or fungi. Includes medical microbiologists who study the relationship between organisms and disease or the effects of antibiotics on microorganisms.

Is This For You?

Work Interests are described in the following categories (compatible with Holland's Model). People who tend to succeed in this career are:

Realistic - Enjoy work activities that involve practical, hands-on problems and solutions.

Investigative - Interested in science and logic. They like to analyze, evaluate, and solve problems, and enjoy learning and understanding the causes of events.

Work Values are aspects of work that are satisfying to you. The following work values are generally associated with this career:

Recognition – Offer advancement, potential for leadership, and may be considered prestigious.

Achievement – Results oriented occupation that allows employees to use their strongest abilities, giving them a feeling of accomplishment.

Independence – Allow employees to work on their own and make decisions.

Abilities reflect a person's aptitude to acquire skills and knowledge. The following abilities are important for success in the career:

- Inductive Reasoning
- Written Comprehension
- Category Flexibility
- Deductive Reasoning
- Information Ordering
- Problem Sensitivity

Skills You Need

- Science
- Critical Thinking
- Writing
- Active Listening
- Reading Comprehension
- Active Learning
- Speaking
- Judgement and Decision Making

Education & Training

Microbiologists need a **bachelor's degree in microbiology, biology, or agricultural science.**

SD Employment & Wages

2012 Workers	2022 Workers	Numeric Change	Percent Change	Average Annual Demand for Workers	Median Annual Wage
95	110	15	15.8%	4	\$51,600

Additional References

South Dakota Career InSite

www.sdjobs.org/careerinsite

Career OneStop

www.careeronestop.org

O*Net Online

online.onetcenter.org

Requirements for the National Career Readiness Certificate (NCRC)

	Median Skill Level
Applied Mathematics	5
Reading for Information	5
Locating Information	5

Where They Work

The South Dakota Industries which employ the largest number of microbiologists are:

- State Government Educational Services
- State Government
- Federal Government
- Architectural and Engineering Services
- Medical Equipment and Supplies Manufacturing

Visit www.sdjobs.org/lmic/occprofiles to obtain the most recent workforce data and trends. Also available are explanations of the terms used for work interests, work values, abilities, and skills sections of occupational profiles.