

# Clinical & Public Health Microbiology Career Pathways

## Clinical Microbiologists

Investigates microorganisms that cause infectious diseases.

**What type of laboratories do clinical microbiologists work in?**

- Clinical laboratories serving hospitals.
- Clinical laboratories serving federal (e.g. Veterans Affairs Hospital) and state government.
- Diagnostic reference laboratories.
- Pharmaceutical and diagnostic instrument companies.

### Positions

- Medical Laboratory Technician (MLT).
- Medical Laboratory Scientist (MLS).
- Medical Laboratory Supervisor or Manager.\*
- Medical Microbiology Laboratory Director.\*

### MLT Job Requirements

- Associate degree.
- Completion of an accredited MLT program.
- Optional: American Society for Clinical Pathology (ASCP) certification.<sup>†</sup>

### MLS Job Requirements

- Bachelor's degree in biology or a health-related science.
- Completion of an accredited MLS program.
- Optional: ASCP certification.<sup>†</sup>

## Public Health Microbiologists

Investigates microorganisms that pose threats to public's health.

**What type of laboratories do public health microbiologists work in?**

- Local, state or national public health laboratories (e.g. Centers for Disease Control and Prevention [CDC] and National Institutes of Health [NIH]).
- Newborn and genetic diseases laboratories.
- Environmental and food safety laboratories.

### Positions

- Public Health Microbiologist (PHM).
- Public Health Microbiology Supervisor or Manager.\*
- Public Health Microbiologist Director.\*

### PHM Job Requirements

- Bachelor's degree in biology or a health-related science.
- Some states require the completion of at least 6 months training in a clinical or public health laboratory.
- Certification as a clinical laboratory scientist or clinical microbiologist is helpful, but not required for most laboratories.<sup>†</sup>

## WHERE DO I START?

- Find job opportunities in diagnostic laboratories near you! Many have available positions that do not require certification.
- Apply for the [ASM/Weber State University Microbiology Certificate Program](https://www.asm.org/CPHMCareers).
- Find a National Accreditation Agency for Clinical Laboratory Sciences accredited program.
- Find more information about the field at [asm.org/CPHMCareers](https://asm.org/CPHMCareers).

## Occupational Outlook

**Number of jobs (2021):  
329,200**

Employment of clinical laboratory technologists and technicians is projected to grow **7% (+ 21,800)** from 2021 to 2031.

*Source: Bureau of Labor and Statistics (2022)*

## Starting Salaries

**Clinical microbiology:  
\$57,800**

*Source: Bureau of Labor and Statistics (2022).<sup>†</sup>*

**Public health microbiology:  
\$58,268**

*Source: Association of Public Health Laboratories (2022).<sup>†</sup>*

<sup>†</sup>Manages/Supervisor and Director positions in the laboratory may require additional education and training. Please check your local state requirements for additional information.

<sup>†</sup>The numbers above are nationwide average starting salaries. Salaries can vary significantly by region and salaries can increase with additional degrees and certification.



AMERICAN  
SOCIETY FOR  
MICROBIOLOGY

# Microbiology For Health Careers

**National Institutes of Health (U.S.).  
Division of Research Grants**



## **Microbiology For Health Careers:**

Microbiology for Health Careers Elvira Ferris,1974-07-01      **Microbiology for Health Careers** Elvira Binello Ferris,1974-07-01      **Microbiology for Health Careers** Elvira Ferris,Elizabeth Fong,1982-02-01      *Health Careers Today - E-Book* Judith Gerdin,2011-04-08 Describing more than 45 health careers Health Careers Today 5th Edition offers a practical overview to help you make an informed decision in choosing a profession Not only does it discuss the roles and responsibilities of various occupations it provides a solid foundation in the skills needed for all health careers Clear explanations of anatomy and physiology provide essential knowledge of health related to the human body and show how this applies to different careers A companion Evolve website includes skills videos animations quizzes and flashcards Written by experienced educator Judith Gerdin this book reflects National Health Care Skills Standards A clear easy to read approach makes it easy to explore health career options Over 45 health careers are discussed including the requirements and roles and responsibilities of each Full color drawings and photographs illustrate concepts techniques and equipment The National Health Care Skills Standards are incorporated and the book s organization closely follows the standards An Anatomy and Physiology unit covers all of the body systems and applies A P to various career settings Skill Activities provide the opportunity to obtain hands on experience Learning Objectives at the beginning of each chapter focus on key information Key Terms with definitions are listed at the beginning of each chapter Core concepts are reinforced with more than 70 content boxes skill boxes review questions and critical thinking questions National Standard sections summarize the specific number and name of each national standard covered in that chapter along with page references Chapter summaries make it easy to review and identify key content A comprehensive glossary includes all key terms and definitions for quick reference Student resources on a companion Evolve website include fill in the blank and drag and drop quizzes flashcards anatomy and physiology animations skill videos an audio glossary and web links A workbook corresponds to the chapters in the textbook and features learning activities such as vocabulary practice exercises medical abbreviation practice exercises coloring labeling activities concept application exercises laboratory exercises critical thinking exercises and Internet activities Sold separately      **Burton's Microbiology for the Health Sciences** Paul G. Engelkirk,Janet L. Duben-Engelkirk,Gwendolyn R. Wilson Burton,2011 Written in a straightforward and engaging style this premier textbook provides students with the foundation in microbiology that they need to perform their day to day duties in a safe and knowledgeable manner Coverage includes the core themes and concepts outlined for an introductory course by the American Society for Microbiology Developed for current and future healthcare professionals the text offers vital coverage of antibiotics and other antimicrobial agents epidemiology and public health hospital acquired infections infection control and the ways in which microorganisms cause disease This comprehensive new Ninth Edition explores the major viral bacterial fungal and parasitic human diseases including patient care and how the body protects itself from pathogens and infectious diseases A bound in CD ROM and a

companion Website include case studies additional self assessment exercises plus animations and special features that provide additional insight and fun facts on selected topics

### **Microbiology for Health Careers 7E**

Grover-Lakomia,2013-06-21 **Health Careers Guidebook** United States. Employment and Training Administration,1979

**Women and Health Careers** Sheryl Burt Ruzek,1978 101+ Careers in Public Health, Third Edition Beth

Seltzer,Heather Krasna,2021-10-12 The public health landscape is one of the most rapidly growing and cutting edge fields at the moment and in the wake of the global COVID 19 pandemic there has never been a more meaningful time to enter the field This thoroughly updated and revised third edition of 101 Careers in Public Health continues to act as a career guide both for students seeking a first job in the field of public health and for anyone seeking guidance on how to best navigate the next stages of an existing career Discussing not only emerging career paths but also traditional and familiar job types in public health this book offers comprehensive advice and practical tips It includes a wide survey of career profiles including careers closely involved with pandemic response climate change technology and data science and social justice advocacy This third edition continues to provide a clear introduction to the history of public health with detailed descriptions of the many educational pathways that lead to public health careers The book explores more than 120 different jobs in public health with complete job descriptions educational requirements and future outlooks in addition to public health profiles from working professionals in the field Whether interested in positions in government healthcare non governmental organizations technology research academia philanthropic organizations global health consulting or other private sector companies this exciting third edition of 101 Careers in Public Health provides excellent career guidance and produces helpful self reflection when deciding on a public health career path Key Features Provides an introduction to the important competencies training and requirements needed to secure job opportunities at different career stages Includes step by step advice on how to network apply and interview for the job that best matches your interests complete with a sample resume and cover letter Presents 50 new interviews from early career management and leadership positions as well as job descriptions for 20 occupations new to this edition Expanded coverage on global health and related opportunities in addition to jobs in data science and technology Offers career advice for entry level candidates and also for anyone looking to change careers

*Current Catalog* National Library of Medicine (U.S.),1983 First multi year cumulation covers six years 1965 70

**Microbiology for Health Careers** Lakomia,Elizabeth Fong,1999-01-01 This text serves as an introduction to the essentials of microbiology and includes an excellent review of basic chemistry **101+ Careers in Public Health, Second Edition** Beth Seltzer,2015-12-11 Praise for the First Edition First rate advice American Public Health Association In just the past few years interest in public health careers has soared Public health degrees are more popular than ever but what opportunities are out there once you ve earned that MPH And do you have to have a degree in public health to break into this field This updated and revised second edition of 101 Careers in Public Health provides an extensive overview of the

numerous and diverse career options available and the many different roads to achieving them It includes both familiar public health careers and emerging opportunities New to the second edition are public health careers in the military public health and aging and careers in cutting edge areas such as nanotechnology and public health genetics Readers will learn about modern approaches to public health programs including the evolving study of implementation science and the increased role of community based participatory research The second edition also presents expanded information on getting started in public health including the increasingly popular field of global health Included are descriptions of careers in disease prevention environmental health disaster preparedness nutrition education public safety and many more Whether you are a student who wants to launch a career or a professional looking to change careers this guide offers a straightforward introduction to the public health field It details the training salary ranges and degree requirements for each job and alerts readers to alternative pathways beyond the traditional MPH New to the Second Edition Public health careers in the military Public health and aging Expanded information on global health careers and how to get started in global health Careers in cutting edge domains of public health such as nanotechnology and public health genetics The evolving roles of implementation science and community participatory research MD or MPH The differences between healthcare and public health Key Features Includes a detailed guide to educational paths options and training requirements at the bachelor s master s and PhD levels Offers guidance on navigating the job market through both traditional and nontraditional pathways Provides tips on landing the job you want Includes interviews with public health professionals who offer details of their day to day lives on the job Helps job seekers just starting out and those interested in career change

**National Library of Medicine Current Catalog** National Library of Medicine (U.S.), **Health Career Opportunity Grants for the Disadvantaged** United States. Office of Health Resources Opportunity,1978 [Health Career Opportunity Grants for the Disadvantaged](#) ,1978 **Careers in Microbiology** Institute For Institute For Career Research,2015-05-12

THE WORLD IS FULL OF LIVING THINGS so small that most of us will never see them Yet these invisible organisms have significant effects on human life some good some bad Some microorganisms can cause infections that pose serious health risks and left unchecked can grow into a plague Other kinds of microorganisms are beneficial and can fight infection or eat toxic waste Microbiologists are the scientists who study these microscopic life forms and their interactions with people plants animals and the environment This is a fascinating career but it is not for germophobes That is because microbiologists deal with life forms most of us would rather not see viruses bacteria parasites and fungi There are millions of different species Every day microbiologists are traveling to all corners of the earth and beyond to discover strange new forms of life that no one even knew existed Their job is to identify microbes determine whether they can help or hurt us and develop ways to either utilize them for our benefit or combat them for our protection Microbiologists work in almost every industry from agriculture oil and pollution control to biotechnology pharmaceuticals and healthcare They work for government agencies academic institutions

corporations technology firms and industrial and environmental organizations Most work in sterile research labs or hospitals but some like environmental microbiologists spend their time outdoors slopping through muck and mud to get samples and conduct field experiments The education required to work as a microbiologist depends upon the position you are aiming for Some microbiology laboratory technician jobs particularly in medical laboratories are open to individuals with a high school diploma or an associate degree But generally a bachelor s degree is the minimum requirement to enter the field and top research positions and jobs at colleges and universities often require a graduate degree either a master s or doctoral For those who have obtained a solid education the job outlook is terrific The need for qualified microbiologists is growing at an accelerated pace both for basic research and practical applications No one knows how many microbes are yet to be discovered More importantly microbiologists are still learning how the known microbes function and how they can be utilized for the benefit of society As a result the field of microbiology has unlimited employment potential The field of microbiology is loaded with attractive features The pay is good with the potential to earn over 100 000 a year There are so many more reasons to consider this career Microbiologists are paid to discover things in a world most people will never see and unlock some of nature s best held secrets They get to travel the world enjoy prestige among their colleagues and have a newly discovered species named after them It is a field that is wide open and there is no better time to take a look at the amazing work you could be doing     *Burton's Microbiology for the Health Sciences, Enhanced Edition* Paul G. Engelkirk, Janet Duben-Engelkirk, Robert C. Fader, 2020-05-07 Emphasizing the relevance of microbiology to a career in the health professions Burton s Microbiology for the Health Sciences provides the vital microbiology information you need to protect yourself and your patients from infectious diseases     *Financial Assistance by Geographic Area* ,     [Health Careers](#) David C. Trapp, 1971  
    *Research Grants Index* National Institutes of Health (U.S.). Division of Research Grants, 1972

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