

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.*

MLS Job Requirements

- Bachelor's degree in biology or a health-related science.
- Completion of an accredited MLS program.
- Optional: ASCP certification.*

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-Merck State University Microbiology Certificate Program.
- Find a National Accreditation Agency for Clinical Laboratory Sciences accredited program.
- Find more information about the field at 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 (2020)

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.*



Starting Salaries

Clinical microbiology:
\$57,800
Source: Bureau of Labor and Statistics (2020).*

Public health microbiology:
\$58,268
Source: Association of Public Health Laboratories (2020).*

*Managers/Supervisor and Director positions in the laboratory may require additional education and training. Please check your local state requirements for additional information.
*The numbers above are nationwide average starting salaries. Salaries can vary significantly by region and salaries can increase with additional degrees and certification.



Microbiology For Health Careers

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Microbiology for Health Careers Elvira Binello Ferris,1974-07-01 **Microbiology for Health Careers** Elvira Ferris,1974-07-01 **Women and Health Careers** Sheryl Burt Ruzek,1978 Microbiology for Health Careers Elvira Ferris,Elizabeth Fong,1982-02-01 **Health Careers Today - E-Book** Judith Gerdin,2015-12-04 Find the health career that is right for you Health Careers Today 6th Edition offers a practical overview to help you make an informed decision in choosing a profession Not only does this book discuss the roles and responsibilities of various occupations it provides a solid foundation in the skills that each health career requires Clear explanations of anatomy and physiology provide essential knowledge of the human body and show how A P applies to different careers From experienced educator Judith Gerdin this edition adds three new chapters and an Evolve companion website includes new health career videos animations exercises and more A clear easy to read approach makes it easy to explore and understand health career options Over 45 health careers are discussed including the requirements and roles and responsibilities of each Full color photographs drawings and design illustrate concepts techniques and equipment 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 Review questions and critical thinking questions in each chapter allow you to test your understanding of what you ve learned Brain Bytes reinforce concepts and keep you engaged in the material Health Careers in Practice boxes show working professionals in many health careers featuring personal stories that you can relate to Objectives and Key Terms at the beginning of each chapter focus on the key information to be learned Chapter summaries make it easy to identify and review key content Updated National Health Care Skills Standards are summarized with the specific number and name of each national standard covered in that chapter along with page references A glossary includes all key terms and definitions for quick reference Evolve website provides exercises new career videos animations and competency skill sheets for further information review and practice 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 online activities Sold separately **Health Careers and Medical Sciences** George Milles,1975

Health Occupations Orientation Level Core Curriculum ,1987 **Health Careers Today** Judith Gerdin,2004-04 This valuable guide provides an introduction to the basic health care environment and a preview of various popular health careers designed to help students make informed choices based on their interest and their commitment to the educational and professional responsibilities of each health career It gives students a realistic glimpse of various health careers available today outlining the roles and responsibilities levels of education and credentialing daily functions and key disorders and assessment tools that are involved Clear introductory information to approximately 60 health careers is presented providing an excellent way for students to explore the roles and responsibilities of various health care careers The book follows the

National Health Care Skill Standards which apply to workers across the entire health care industry An Anatomy and Physiology unit Unit 2 clearly presents the structure and function assessment techniques disorders issues and innovations of the various anatomy and physiology systems so students can see the applications of science in various career settings Comprehensive career chapters incorporate the skills associated with specific careers into the chapter s discussion so readers can investigate the skills functions and issues related to that career Learning Objectives at the beginning of every chapter give students an idea of what they should get out of the chapter and help them focus on critical information Lists of Key Terms for each chapter provide definitions of terms that help the reader understand the chapter more clearly Easy to follow Skill Lists in many chapters present step by step instructions on how to perform various career or health care related tasks Figures boxes and tables throughout the book highlight important points in an easy to read format often providing details not incorporated in the text discussion Terminology boxes highlight the most important terminology in the chapter provide their definitions and break them into parts to aid in the reader s understanding Abbreviation boxes list frequently used abbreviations and their meanings to familiarize readers with these abbreviations Review questions and critical thinking questions at the end of every chapter help students memorize important facts and apply them to chapter topics Appendices provide important and practical information that students will need throughout their health care education and career A new chapter on careers in alternative or complementary therapies and treatments covers careers in Alternative Medical Systems Mind Body Interventions Biological Based Therapies Manipulative and Body Based Methods and Energy Therapies Career chapters have been reorganized and broken down into three topics Careers Content Instruction and Performance Instruction so that similar information on careers is available in each chapter More applications and skills have been added with critical thinking exercises at the end of every chapter and skill resources in the workbook to further engage students A separate chapter on Foundational Skills has been added featuring expanded more detailed information on the skills Information on bioterrorism has been added to relevant chapters and careers associated with bioterrorism are discussed in the chapter on Biotechnology Careers **Health Careers** David C. Trapp,1971 **Twenty Six Allied Health Careers** ,1990

Microbiology for Health Careers 7E Grover-Lakomia,2013-06-21 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1972 *Twenty Eight Allied Health Careers* ,1991 Brief descriptions of 28 careers in allied health which include history employment characteristics educational programs and where to write for more information *Vocational and Technical Resources for Community College Libraries* Mary Ann Laun,1995

Communicable Disease and Public Health ,2004 Handbook of Health Careers Janet Zhun Nassif,1980 Health Careers Guidance Manual for Delaware, Maryland, New Jersey and Pennsylvania/ Lawrence Abrams,Vicki Carto,1997
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