

# HEALTH SCIENCE & MEDICAL TECHNOLOGY INDUSTRY SECTOR

Caring students looking for a “recession” proof career path will want to explore healthcare opportunities available in Health Science and Medical Technology. Surprisingly doctors and nurses comprise less than 40% of healthcare professionals, while allied health professionals make up an estimated 60% of the US healthcare workforce. Because almost all health professions are experiencing shortages, careers in this Pathway offer promising futures.

That means the demand for health care professionals is strong...and getting stronger every day. If you're the kind of person who enjoys caring for other people, now is the perfect time to check out the Health Science and Medical Technology career pathway. This pathway can lead you to many different specialties, including Nursing, Biotechnology Research and Development, Diagnostic Services, Health Informatics (using cutting-edge technology to store and retrieve medical data), Support Services, and Physical Therapy.



## IS THIS INDUSTRY SECTOR A GOOD MATCH FOR YOU?

### Are you?

- A problem solver
- Interested in science
- Comfortable in health care setting
- Compassionate, committed and caring

### Do you?

- Like working as a team
- Pay attention to detail
- Like science and math

## EDUCATION LEVEL & RELATED OCCUPATIONS

### High School Diploma

Biotechnology Assistant  
Medical Lab Aide  
Health Unit Coordinator

### Certificate and/or Associate Degree

Biotechnology Technician  
Medical Lab Technician  
Medical Transcriptionist

### Bachelor+ Degree

Biotechnology Scientist  
Radiologist  
Hospital/Nursing Home Administrator



## BIOTECHNOLOGY

The standards for the applications of the Biotechnology pathway relate to occupations and functions relevant for understanding and solving biomedical problems and creating products to improve the quality of human life.

### Sample occupations associated with this pathway:

- Clinical Trials Research Coordinator
- Forensic Pathologist
- Biostatistician
- Geneticist Lab Assistant

## PATIENT CARE

The standards for the Patient Care pathway apply to occupations or functions involved in the prevention, treatment, and management of illness and the preservation of mental and physical well-being through the services offered by the medical and allied health professions.

### Sample occupations associated with this pathway:

- Kinesiotherapist
- Nurse Anesthetist
- Respiratory Therapist
- Radiologic Technician

## HEALTH CARE ADMINISTRATIVE SERVICES

Health care administrative workers include site administrators, managers, attorneys, receptionists, secretaries, billing and coding specialists, health informatics technicians, accountants, managers, and other knowledge workers that support the process of patient care. Health care administrative workers are the invisible backbone of health care; without appropriately skilled workers in these fields, health care systems simply could not function.

### Sample occupations associated with this pathway:

- Clinical Data Specialist
- Medical Illustrator
- Health Care Administrator

## HEALTH CARE OPERATIONAL SUPPORT SERVICES

The standards for the Operational Support Services pathway apply to occupations or job functions necessary to provide an environment and support systems for the delivery of health care. Careers could include central supply, facility maintenance, food services, interior decorating, housekeeping, biomedical engineering, epidemiology, social worker, biomedical technician and others.

### Sample occupations associated with this pathway:

- Central Service Technician

- Clinical Simulator Technician
- Hospital Management Engineer

## PUBLIC AND COMMUNITY HEALTH

The standards for the Public and Community Health pathway apply to occupations or functions involved primarily in environmental health, community health and health education, epidemiology, disaster management, and geriatrics.

### Sample occupations associated with this pathway:

- Community Health Worker
- Epidemiologist
- Environmentalist

## MENTAL AND BEHAVIORAL HEALTH

The standards for mental and behavioral health relate to occupations that assist clients on their journey toward better health. Collaborating with other departments as members of interdisciplinary teams of mental health professionals, such as psychiatrists, psychologists, registered nurses, and other disciplines, they assist with delivery of appropriate, quality treatment to patients with behavioral health concerns, psychological crises, and other biopsychological problems.

### Sample occupations associated with this pathway:

- Mental Health Therapist
- Psychiatric Technician
- Mental Health Researcher