



Pathway Descriptions

the accuracy of diagnostic tests.

and treatment of diseases, injuries or other physical conditions.

**Development** workers study diseases to discover

new treatments or invent medical devices

used to directly assist patients or to improve

Diagnostic Services workers use tests and

evaluations that aid in the detection, diagnosis

Health Informatics workers occupy many different levels of health care related employment. This pathway includes health care administrators who man-

age health care agencies as well as those individuals who are responsible for managing all of the patient data and information, financial information, and computer ap-

plications related to health care processes and procedures.

Biotechnology

## ealth Science Career Cluster

Cluster Overview

**Cluster Description:** This cluster orients students to careers that promote health, wellness, and diagnosis as well as treat injuries and diseases. Some of the careers involve working directly with people, while others involve research into diseases or collecting and formatting data and information. Work locations are varied and may be in hospitals, medical or dental offices or laboratories, cruise ships, medivac units, sports arenas, space centers, or within the community.

**Employment Outlook:** Health care is the largest and fastest-growing industry in the United States. The health care industry employs over 10 million workers in more than 200 careers. The current and projected health care workforce shortage is creating a health care crisis across the nation. Health care employment growth between 2000-2010 is projected to be 25.5 percent. The explosion of technology in health care and an unprecedented aging population contribute to the national health care workforce shortage.

## edge and Skills

ommunication **e** 

oundation

formation Systems

and Technical Literacy

ability Ethics Systems
ork Career Development
Solving Critical Thinking
ion Technology Application
onsibilities Communication
Health, and Environment

an Services and Resources

**Career Pathway** 

Career Specialties

Biomedical Engineer
Lab Technician
Medical Scientist
Quality Assurance Technician
Quality Control Technician

Cardiovascular Technologist Exercise physiologist Medical Technologist Nuclear Medicine Technologist Radiologic Technologist

Data Analyst
Health Care Administrator
Health Information Coder
Medical Records Technician

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Biotechnology Research

and Development

Diagnostic Services

Support Services workers provide a therapeutic environment for the delivery of health care. Support Services offers a full range of career oportunities from entry level to management, including technical and professional careers.

Therapeutic Services workers are focused primarily on changing the health status of the patient over time. Health professionals in this pathway work directly with patients; they may provide care, treatment, counseling and health education information.

## Cluster Facts

- There are 4,148 apprentices employed and training in Health Science professions across the country, ranging from Certified Nursing Assistants and Licensed Practical Nurses to Surgical Technologist and Emergency Medical Technicians.
- Job Corps provides training in 12 Health Science-related careers, including nursing, with 105 of its 118 centers
  providing Health Science-related career training.
- The Health Science industry is predicted to add 3.5 million new jobs between 2002 and 2012, an increase of 30%.

Dietician

 The majority of Health Science occupations require less than four years of college education, but health diagnosing and treating practitioners are among the most educated workers.

## Related 4-H Projects

- ◆Cat ◆Companion Anima
  ◆Dog ◆Food and Nutrition
  ◆Health ◆Horse
- ◆Human Development ◆Lifetime Sports ◆Physical Fitness
- Pabbit ◆Safety

Endorsed by: Nebraska Department of Education Nebraska Career Education