



# Health Science and Medical Technology Industry Sector

Health Science and Medical Technology continue to be one of the fastest-growing industry sectors in California, offering numerous opportunities and benefits. Of the more than 300 careers within this sector, about 41 percent require professional-level preparation; about 33 percent, technical-level preparation; and 26 percent, assistant-level preparation. The Health Science and Medical Technology pathways and careers offer options to match a variety of the aptitudes, interests, abilities, and academic achievement of students. Wages and salaries are projected to increase by 27 percent through 2014, and employment is expected to account for about 3.6 million new jobs—19 percent of all jobs to be added to the economy by 2014.

The career pathways are grouped in functions that have a common purpose and similar attributes: Biotechnology Research and Development, Diagnostic Services, Health Informatics, Support Services, and Therapeutic Services. Standards for each career path build on and continue the Health Science and Medical Technology foundation standards, providing more complexity, rigor, and career specificity. And each career pathway includes standards needed for all careers within that pathway.

## Health Science and Medical Technology Industry Sector Pathways:

- *Biotechnology Research and Development*
- *Diagnostic Services*
- *Health Informatics*
- *Support Services*
- *Therapeutic Services*

### Entry Level Careers

*(with high school diploma)*

- Physical Therapy Assistant
- Respiratory Care Practitioner
- Optometric Assistant
- Medical Assistant
- Medical Office Secretary
- Home Health Aide
- Laboratory Assistant
- Pharmacy Aide
- Dental Assistant
- Medical Equipment Preparers
- Personal and Home Care Aide
- Psychiatric Aides
- Veterinary Assistants
- Laboratory Animal Caretakers
- Biotechnology Assistant
- Central Supply Aide
- Geriatric Assistant

### Technical Level Careers

*(with AA or AS degree or certificate)*

- Certified Nursing Assistant - CNA
- Pharmacy Technician
- Registered Nurses (2 yr)
- Paramedic
- Operating Room Technician
- Medical Records Technician
- Emergency Medical Technician - EMT
- Licensed Vocational Nurse - LVN
- Radiology Technologist
- Dental Lab Technician
- Respiratory Therapists
- Cardiovascular Technologists
- Dental Hygienist
- Diagnostic Medical Sonographers
- Biomedical Technician
- Environmental Services Technician
- Gerontologist

### Professional Level Careers

*(with BS or BA degree)*

- Surgeons
- Speech-Language Pathologists
- Registered Nurses (4 yr)
- Pharmacists
- Physicians
- Orthodontists
- Nurse Practitioner
- Anesthesiologists
- Athletic Trainers
- Dietitians and Nutritionists
- Clinical Trials Researcher
- Biomedical Chemist
- Geneticist
- Health Services Administrator
- Industrial Hygienist
- Materials Management Supervisor
- Medical/Public Health Social Workers

College: \_\_\_\_\_  
 High School(s): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Sector: \_\_\_\_\_  
 Pathway: \_\_\_\_\_  
 Program: \_\_\_\_\_  
 \_\_\_\_\_

	Grade	English	Math	Science	Social Studies	Required Courses			Grade 9-12 Dual Enrollment Options
						Recommended Elective Courses	Other Elective Courses	CTE Courses	
Secondary	9								
	10								
	11								
	12								
Postsecondary	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								

Required Courses:  
 Recommended Required Courses:  
 Career Education Courses:  
 Credit-Based Transition Programs (e.g., Dual Enrollment, Articulated Courses, 2+2+2)  
 Assessments, Advising, or Additional Preparation During Summer Breaks