Career Clusters and Pathways

Career Cluster	Career Pathway	Career Cluster	Career Pathway	Career Cluster	Career Pathway
Agriculture, Food & Natural Resources	 Agribusiness Systems Animal Systems Environmental Service Systems Food Products & Processing Systems Natural Resources Systems Plant Systems Power, Structural & Technical Systems 	Government & Public Administration	 Foreign Service Governance National Security Planning Public Management & Administration Regulation Revenue & Taxation 	Law, Public Safety, Corrections & Security	 Correction Services Emergency & Fire Management Services Law Enforcement Services Legal Services Security & Protective Services
Architecture & Construction	ConstructionDesign/Pre-ConstructionMaintenance/Operations	Health Science	 Biotechnology Research & Development Diagnostic Services Health Informatics Support Services Therapeutic Services 	Manufacturing	 Health, Safety & Environmental Assurance Logistics & Inventory Control Maintenance, Installation & Repair Manufacturing Production Process Development Production Quality Assurance
Arts, A/V Technology & Communications	 A/V Technology & Film Journalism & Broadcasting Performing Arts Printing Technology Telecommunications Visual Arts 	Hospitality & Tourism	 Lodging Recreation, Amusements & Attractions Restaurants & Food/Beverage Services Travel & Tourism 	Marketing	 Marketing Communications Marketing Management Marketing Research Merchandising Professional Sales
Business, Management & Administration	 Administrative Support Business Information Management General Management Human Resources Management Operations Management 	Human Services	 Consumer Services Counseling & Mental Health Services Early Childhood Development & Services Family & Community Services Personal Care Services 	Science, Technology, Engineering & Mathematics	Engineering & TechnologyScience & Mathematics
Education & Training	 Administration & Administrative Support Professional Support Services Teaching/Training 	Information Technology	 Information Support & Services Network Systems Programming & Software Development Web & Digital Communications 	Transportation, Distribution & Logistics	 Facility & Mobile Equipment Maintenance Health, Safety & Environmental Management Logistics Planning & Management Services Sales & Service Transportation Operations Transportation Systems/Infrastructure Planning Management & Regulation Warehousing & Distribution Center Operations
• 5 •	AccountingBanking ServicesBusiness FinanceInsurance				

• Securities & Investments



Finance





Health Science

National Career Clusters Pathway

Therapeutic Services



WC

Regional Career Opportunities – Listed by Highest Projected Demand

Job Zone 1 High School Diploma or Less	Job Zone 2 High School Diploma	Job Zone 3 Certificate or Associate's Degree	Job Zone 4 Bachelor's Degree	Job Zone 5 Master's or Doctorate Degree
Few regional occupations in this pathway require education at this degree level.	Nursing Aides, Orderlies & Attendants Annual Openings = 1012 Median Wage = \$26,097	Registered Nurses Annual Openings = 1273 Median Wage = \$61,762	A bachelor's degree may be needed for some registered nursing positions in this region.	Nurse Practitioners Annual Openings = 125 Median Wage = \$90,564
	Home Health Aides Annual Openings = 243 Median Wage = \$22,203	Medical Assistants Annual Openings = 494 Median Wage = \$32,100	Few regional occupations in this pathway require education at this degree level.	Pharmacists Annual Openings = 116 Median Wage = \$121,838
	Physical Therapist Aides Annual Openings = 129 Median Wage = \$26,679	Licensed Practical & Licensed Vocational Nurses Annual Openings = 490 Median Wage = \$41,029	*	Physical Therapists Annual Openings = 87 Median Wage = \$81,380
	Psychiatric Aides Annual Openings = 67 Median Wage = \$19,670*	Pharmacy Technicians Annual Openings = 313 Median Wage = \$30,210		Nurse Anesthetists Annual Openings = 55 Median Wage = \$146,553
Data Source TSBA District Data Dashboard TSBA	Dietic Technicians Annual Openings = 12 Median Wage = \$27,463	Dental Assistants Annual Openings = 275 Median Wage = \$36,671	*	Physician Assistants Annual Openings = 49 Median Wage = \$85,518
Northwest Tennessee Greater Memphis Northwest Southern Middle Tennessee Southern Middle Tennessee Southern Middle Tennessee Tennessee Tennessee	Occupations with the	high-value occupations in this path Northern Middle Tennessee Regio e highest annual openings that are ages above \$35,000 are considere	on e stable or growing with	Explore tsbadata dashboard.com
NS4ed [™] Pathway2Careers	* = state ™ 2018 Trademark NS4ed, LLC	level data was used due to limitations in re	egional data.	rutherford



Health Science

National Career Clusters Pathway Therapeutic Services



Regional High School Requirements and Programs (Grades 9-12)

English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Elective Focus	
English I	Integrated I	Biology	World History and Geography	Foreign Language I	Lifetime Wellness	Fine Arts Selection	Minimum of Three Courses	
English II	Integrated II	Chemistry	U.S. History and Geography	Foreign Language II	Physical Education (.5)		See career programs and electives below.	
English III	Integrated III	Physics	Economics / Government				One Additional	
English IV	Upper Level Math		Personal Finance (.5)				Elective is Required	

Career Programs	Career Program Courses	Additional Electives	Regional Postsecondary Schools	
Nursing ServicesTherapeutic Services	Career Exploration Health Science Education	English Language Arts	Certificates and Associate's Degrees	Bachelor's and Advanced Degrees
 Sport and Human Performance Emergency Services (Alternate Career Cluster: Law, Public Safety, Corrections & Security) See other Health Science pathways for additional career programs and opportunities. 	 Anatomy & Physiology Medical Therapeutics Nursing Education Dental Science Nutrition Science Pharmacological Science Rehabilitation Careers Exercise Science Emergency Medical Services 	Image: Constraint of the state of the s	 Community Colleges Motlow State Community College Tennessee College of Applied Technology Nashville State Community College 	 Colleges and Universities Middle Tennessee State University Tennessee State University University of Tennessee Vanderbilt University
*Note: Programs and courses may vary by high school.	 Medical Terminology Work-Based Learning / Practicum 			

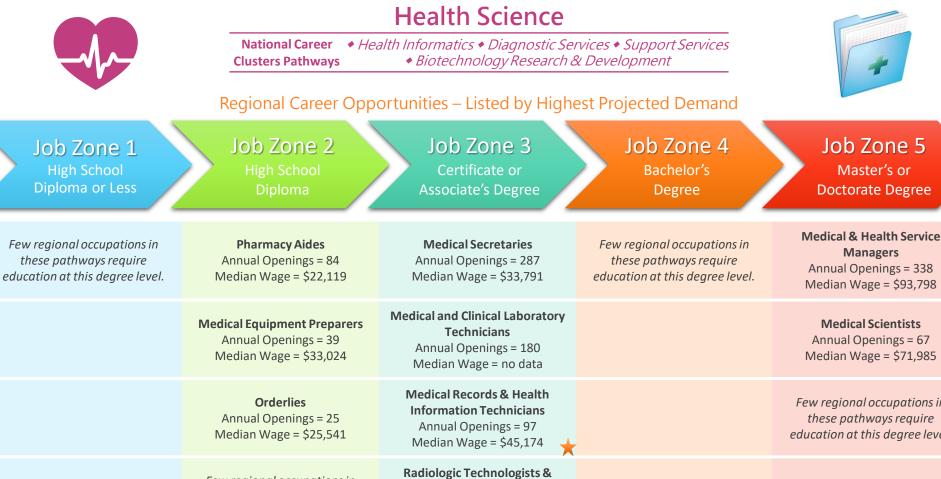
Postsecondary Programs/Majors for Occupations in this Pathway

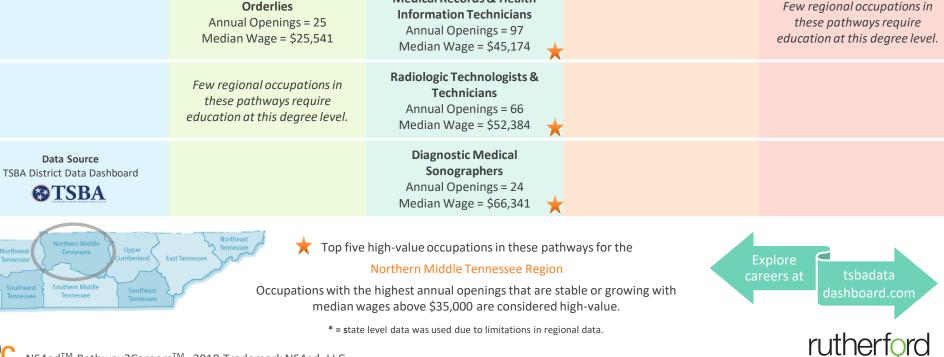
Certificate or AA	Registered Nursing	Medical/Clinical Assistant	Practical Nursing, Vocational Nursing	Pharmacy Technician	Dental Assisting
Bachelor's Degree	Registered Nursing	***	***	***	***
Advanced Degree	Nurse Practitioner	Pharmacy	Physical Therapy	Nurse Anesthetist	Physician Assistant
		**	** Four regional accurations in this nathur		ruthorford



*** Few regional occupations in this pathway require education at this degree level.







Job Zone 5

Master's or

Doctorate Degree

Managers

Annual Openings = 338

Median Wage = \$93,798

Medical Scientists

Annual Openings = 67

Median Wage = \$71,985

NS4ed[™] Pathway2Careers[™] 2018 Trademark NS4ed, LLC



Health Science

National Career+ Health Informatics + Diagnostic Services + Support ServicesClusters Pathways+ Biotechnology Research & Development



Regional High School Requirements and Programs (Grades 9-12)

English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Elective Focus
English I	Integrated I	Biology	World History and Geography	Foreign Language I	Lifetime Wellness	Fine Arts Selection	Minimum of Three Courses
English II	Integrated II	Chemistry	U.S. History and Geography	Foreign Language II	Physical Education (.5)		See career programs and electives below.
English III	Integrated III	Physics	Economics / Government				One Additional
English IV	Upper Level Math		Personal Finance (.5)				Elective is Required

Career Programs	Career Program Courses	Additional Electives	Regional Postsecondary Schools	
Diagnostic Services	Career ExplorationHealth Science Education	English Language Arts	Certificates and Associate's Degrees	Bachelor's and Advanced Degrees
See other Health Science pathways for additional career programs and opportunities. *Note: Programs and courses may vary by high school.	 Anatomy & Physiology Diagnostic Medicine Medical Terminology Work-Based Learning / Practicum 		 Community Colleges Motlow State Community College Tennessee College of Applied Technology Nashville State Community College 	 Colleges and Universities Middle Tennessee State University Tennessee State University University of Tennessee Vanderbilt University

Postsecondary Programs/Majors for Occupations in these Pathways

Certificate or AA	Medical Administrative / Executive Assistant	Clinical/Medical Laboratory Assistant	Health Information / Medical Records Technology	Radiologic Technology	Diagnostic Medical Sonography
Bachelor's Degree	***	***	***	***	***
Advanced Degree	Health / Heath Care Administration	Medical Science	***	***	***



*** Few regional occupations in these pathways require education at this degree level.

