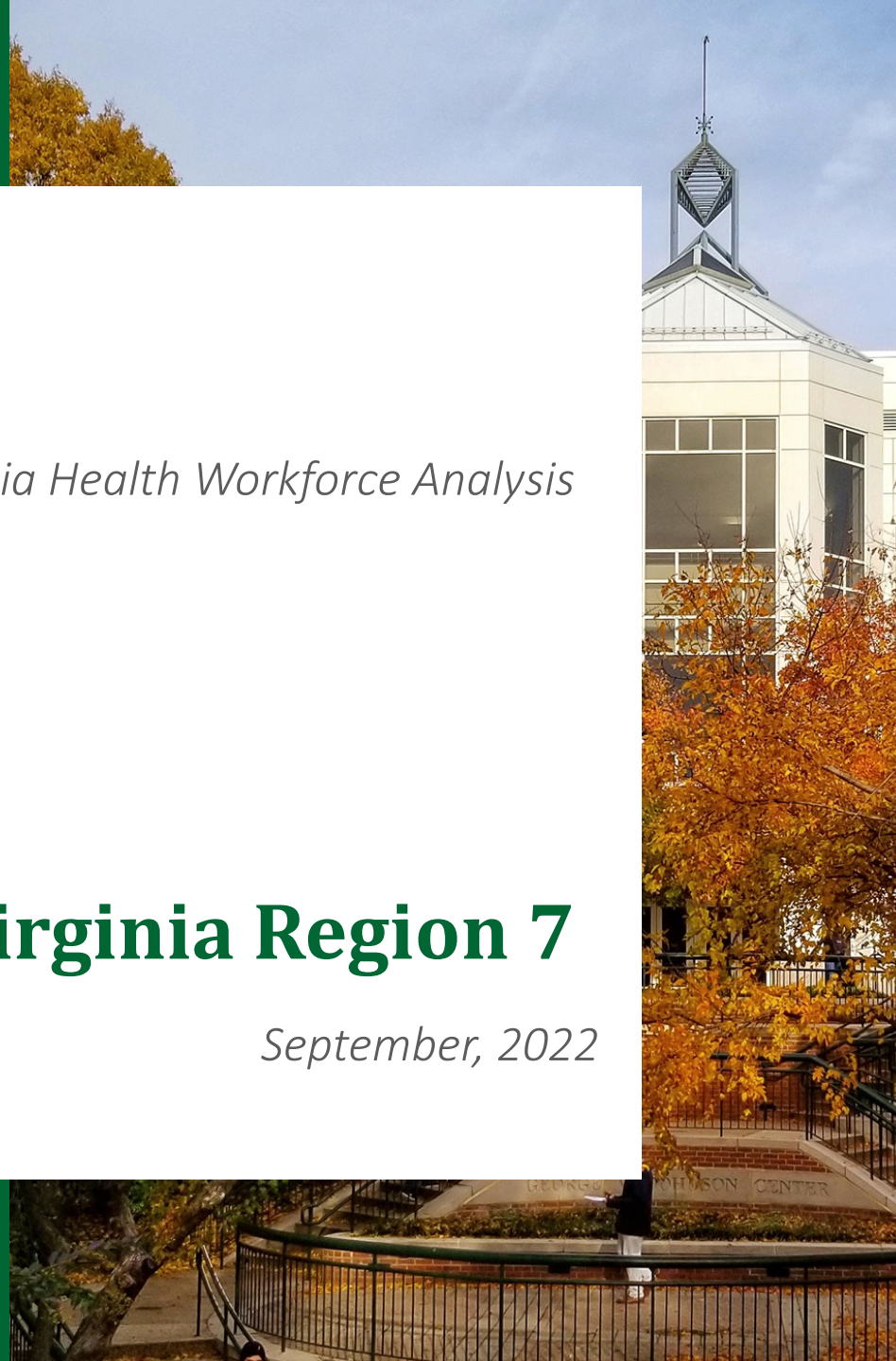




Virginia Health Workforce Analysis

GO Virginia Region 7

September, 2022



Purpose

Provide a regional workforce analysis on health and human services related occupations in **GO Virginia Region 7**, via a review of:

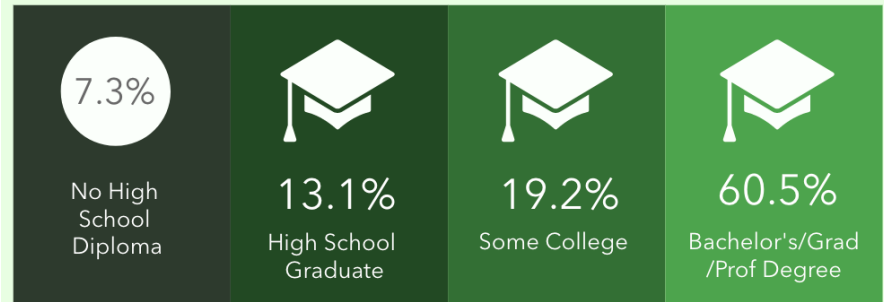
- Regional demographic profile
- Health workforce demand with 2022 Q1 estimates
 - Healthcare Practitioners & Technical Occupations (SOC 29-0000)
 - Healthcare Support Occupations (SOC 31-0000)
 - Community & Social Service Occupations (SOC 21-0000)
 - Life, Physical, and Social Science Occupations (SOC 19-0000)
- Health workforce supply
 - Career & Technical Education Programs in Health Science (secondary education)
 - 2-year & 4-year Institutions

Stakeholder Region

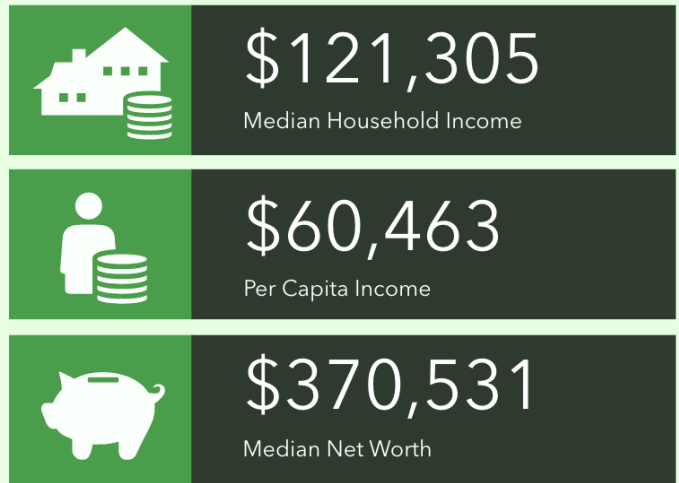
County	Workforce Development Area (WDA) Region	WDA Region
Alexandria	Northern Virginia	11
Arlington	Northern Virginia	11
Fairfax City	Northern Virginia	11
Fairfax County	Northern Virginia	11
Falls Church	Northern Virginia	11
Loudoun	Northern Virginia	11
Manassas	Northern Virginia	11
Manassas Park	Northern Virginia	11
Prince William	Northern Virginia	11



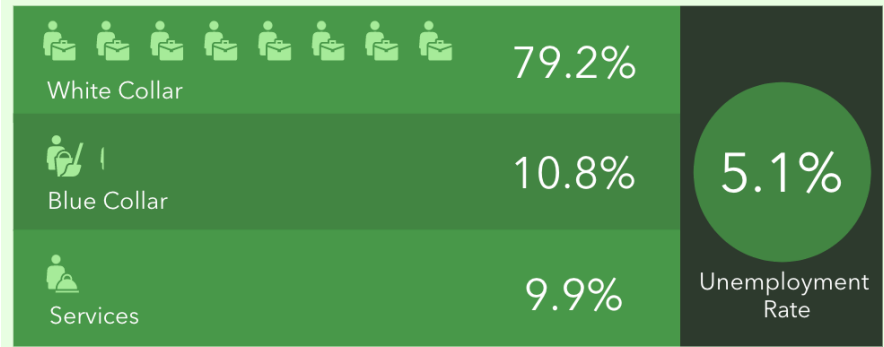
EDUCATION



INCOME



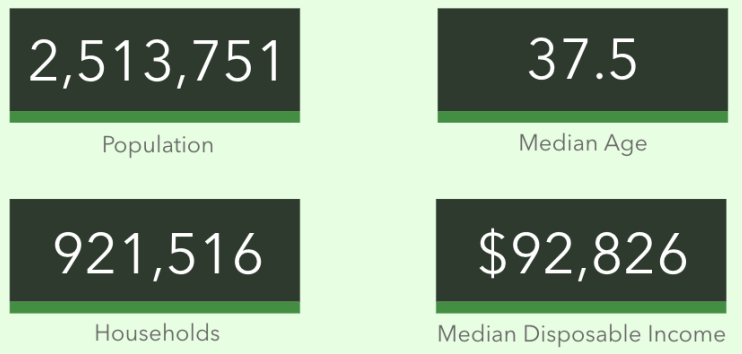
EMPLOYMENT



AGE & GENDER



KEY FACTS



Between **6-24%** of each county population has a **HS diploma**

3 of 9 counties have approximately 5-8% of a population with an **education less than HS**

Median age between **32** and **40** years old

Median HH income is **ABOVE** Virginia median (\$74,222) in **9 of 9** counties

Median HH income ranges from **\$88,434** and **\$162,533**

Major Occupation Groups

- Community and Social Service Occupations (SOC 21-0000)
 - Community health workers, counselors, social workers, social and human services assistants
- Healthcare Practitioners and Technical Occupations (SOC 29-0000)
 - Practitioners: physicians, nurse practitioners, and physician assistants
 - Technical: registered nurses, diagnostic medical sonographers, radiologic technologists/technicians
- Healthcare Support Occupations (SOC 31-0000)
 - Home health and personal care aides, nursing assistants, psychiatric aides, occupational and physical therapy assistants, medical equipment preparers
- Life, Physical, and Social Science Occupations (SOC 19-0000)
 - Animal scientists, food scientists, soil and plant scientists, biochemists, microbiologists, conservation scientists, epidemiologists, physicists, chemists, hydrologists, economists, clinical and counseling psychologists, sociologists, anthropologists, political scientists, forensic science technicians, occupational health and safety specialists

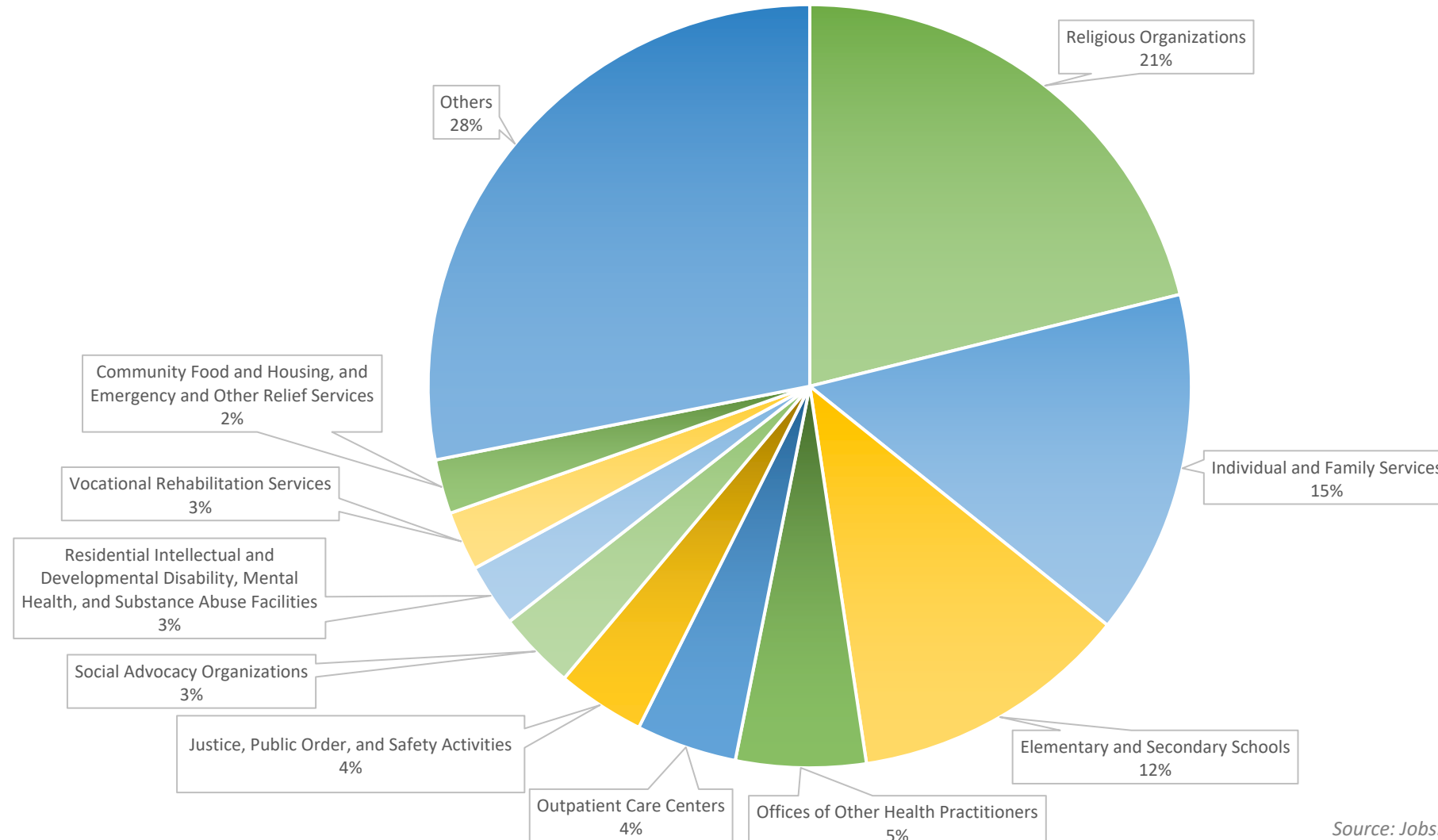
Community & Social Services Occupations (SOC 21-0000)

Includes: Counselors; Marriage and Family Therapists; Rehabilitation Counselors; Educational, Guidance, and Career Counselors and Advisors; Substance Abuse, Behavioral Disorder, and Mental Health Counselors; Social Workers; Mental Health and Substance Abuse Social Workers; Healthcare Social Workers; Child, Family, and School Social Workers; Community and Social Service Specialists; Health Education Specialists; Community Health Workers; Probation Officers and Correctional Treatment Specialists; Social and Human Service Assistants; Clergy; Directors, Religious Activities and Education; Religious Workers

Community & Social Service Specialists

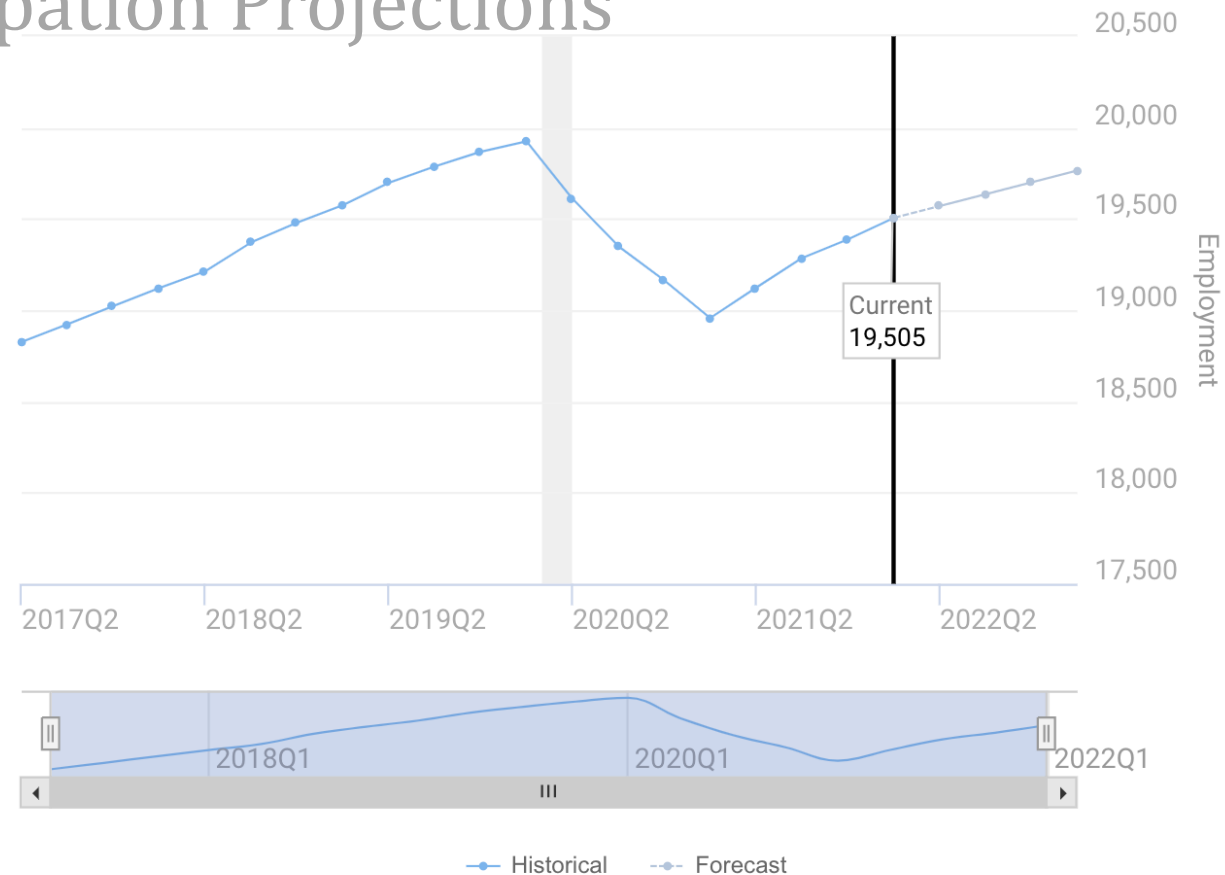
Employment by Industry

% Occupational Employment



Community & Social Service Specialists

Occupation Projections



Employed	19,505
5-Year Empl Change	792
5-Year Ann % Change	0.8%
1-Year Demand	2,278
1-Year Exits (left occupation)	709
1-Year Transfers (new job)	1,309
1-Year Net Growth	260
1-Year Ann % Growth	1.3%
Online Job Ads (last 30 days)	2,183

Source: JobsEQ®, Data as of 2022Q1, The shaded areas of the graph represent national recessions.

- 1-year projected growth almost **0.5%** more than all other occupations (0.8%)
- Job ads represent about **11%** of currently employed in occupation

Community & Social Service Specialists

Employer Demand in Last 12 Months

Occupation	Avg Mean Wages	Mean Wages "n"	LQ	Annual Demand
Substance Abuse, Behavioral Disorder, and Mental Health Counselors	\$63,000	3,039	1.02	372
Social and Human Service Assistants	\$46,300	2,544	0.72	353
Educational, Guidance, and Career Counselors and Advisors	\$79,700	2,312	0.89	242
Child, Family, and School Social Workers	\$70,000	2,177	0.75	244
Clergy	\$60,700	1,966	0.89	215
Directors, Religious Activities and Education	\$74,700	1,715	1.24	213
Healthcare Social Workers	\$71,100	929	0.61	99
Mental Health and Substance Abuse Social Workers	\$66,500	761	0.76	84
Community and Social Service Specialists, All Other	\$60,400	729	0.94	89
Rehabilitation Counselors	\$48,200	605	0.78	62
Remaining Component Occupations	\$64,500	2,729	0.69	302
Community and Social Service Occupations	\$64,600	19,505	0.83	2,278

Top requested occupational certifications: Certification in Cardiopulmonary Resuscitation, Certified Rehabilitation Counselor, Basic Life Support, Clinical Nurse Specialist, Registered Addiction Specialist, Certified Diabetes Educator, Licensed Master Social Worker, ServSafe Food Protection Manager Certification, Advanced Cardiac Life Support Certification, Pediatric Advanced Life Support

Top requested hard skills: Microsoft Office, Microsoft Outlook, Spanish, Microsoft Word, Microsoft PowerPoint, Report Writing/Presentation, Bilingual, Classroom Management, JavaScript, Public Health

Community & Social Service Specialists

Wages

Occupation	Mean	Median	Entry Level	Experienced
Health Education Specialists	\$97,800	\$101,300	\$57,900	\$117,800
Educational, Guidance, and Career Counselors and Advisors	\$79,700	\$77,100	\$51,600	\$93,800
Directors, Religious Activities and Education	\$74,700	\$64,700	\$40,900	\$91,600
Healthcare Social Workers	\$71,100	\$70,000	\$48,900	\$82,200
Social Workers, All Other	\$70,200	\$64,000	\$45,500	\$82,600
Child, Family, and School Social Workers	\$70,000	\$62,700	\$46,000	\$82,000
Mental Health and Substance Abuse Social Workers	\$66,500	\$60,900	\$41,300	\$79,100
Substance Abuse, Behavioral Disorder, and Mental Health Counselors	\$63,000	\$60,300	\$40,800	\$74,100
Religious Workers, All Other	\$61,300	\$61,600	\$32,200	\$75,900
Probation Officers and Correctional Treatment Specialists	\$61,200	\$59,700	\$43,400	\$70,100

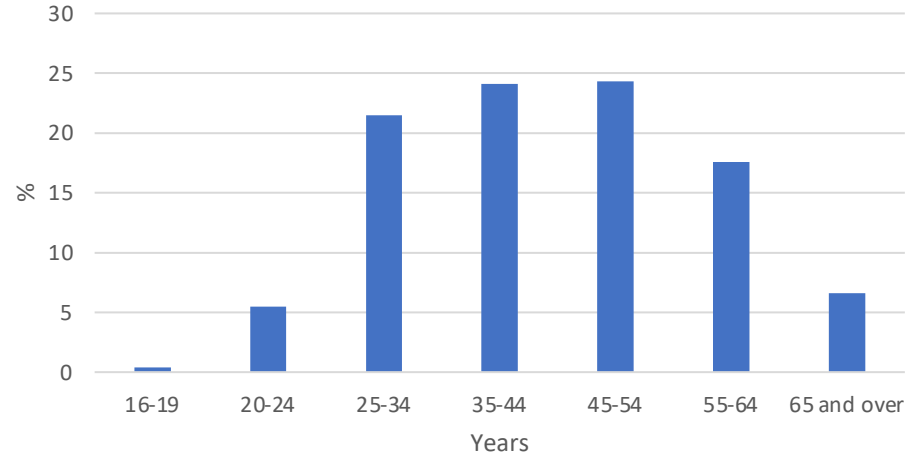
Virginia Minimum Wage 2022 is \$11 per hour or \$22,880 annually (2,080 hours worked)

Living wage for 1 adult 0 children \$19.40 per hour or \$40,352 annually (2,080 hours worked)

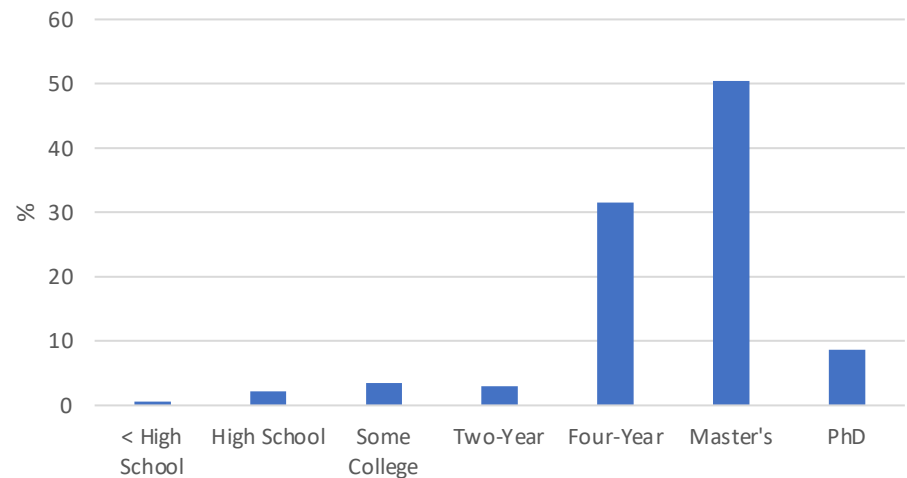
Community & Social Service Specialists

Demographic Characteristics

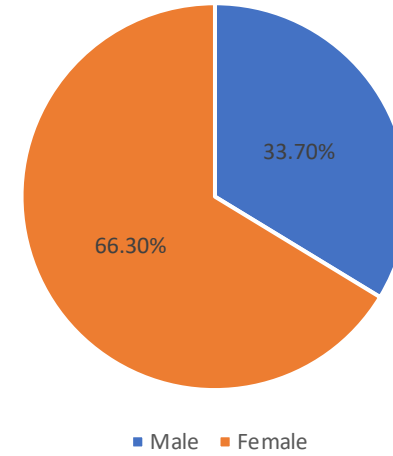
Age Distribution



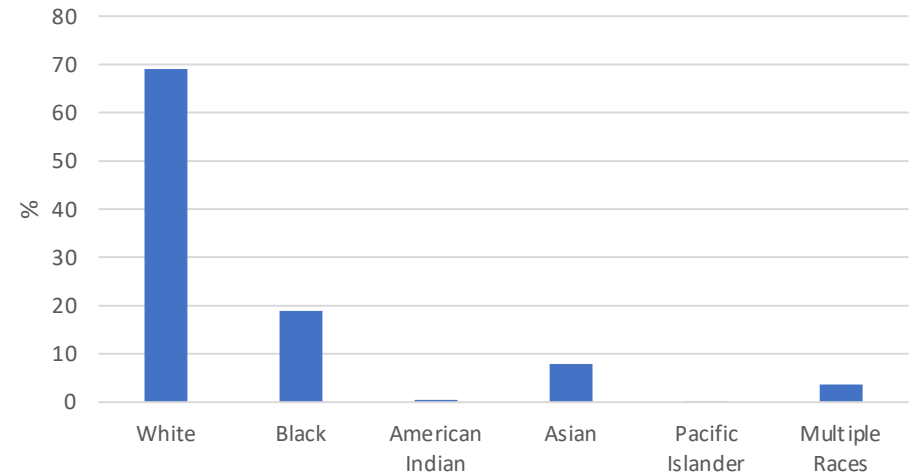
Educational Attainment



Gender Distribution



Race Distribution



Source: JobsEQ, Data as of 2022Q1.

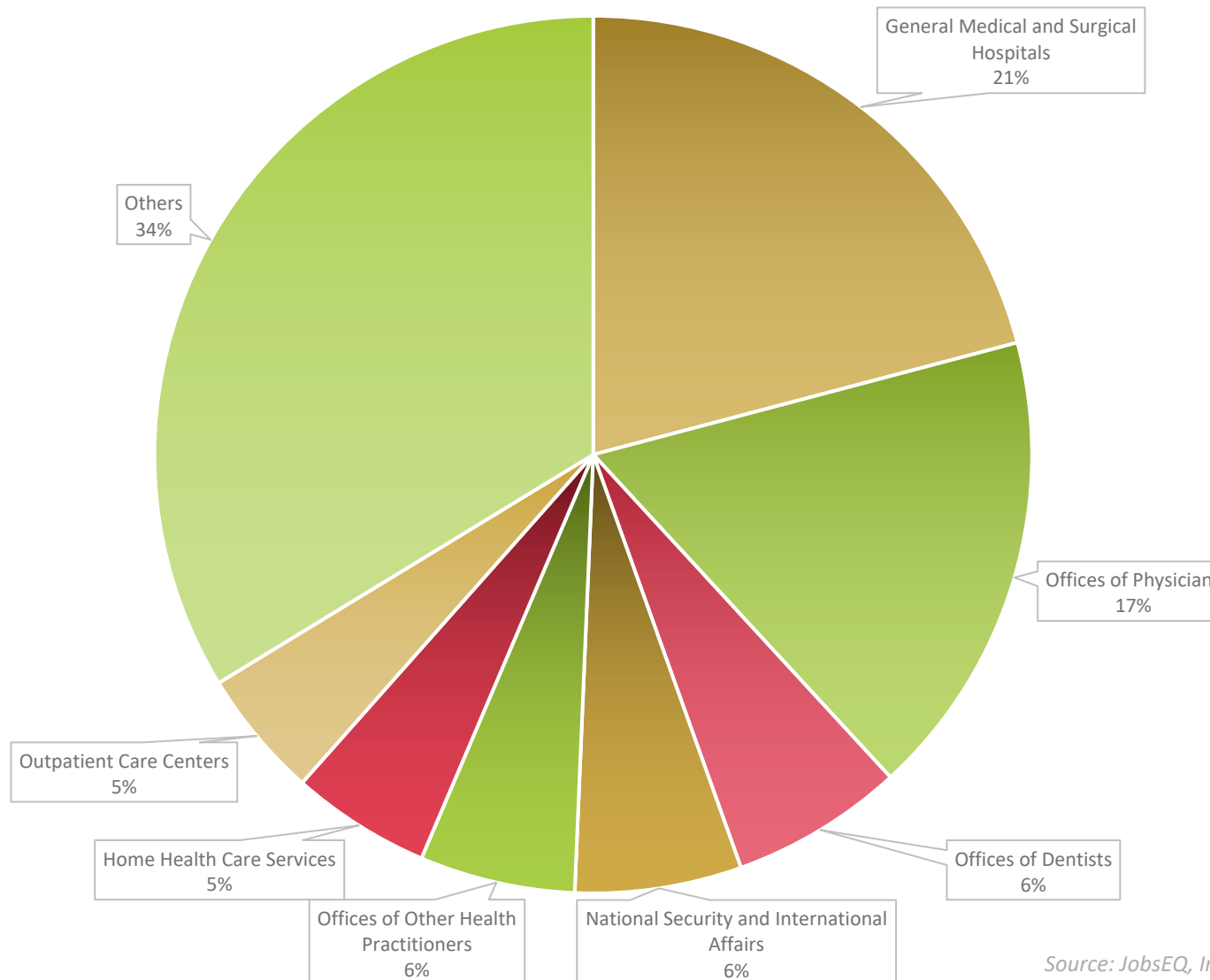
Healthcare Practitioners & Technical Occupations (SOC 29-0000)

Includes physicians, nurse practitioners, and physician assistants, registered nurses, diagnostic medical sonographers, radiologic technologists/technicians

Healthcare Practitioner & Technical Specialists

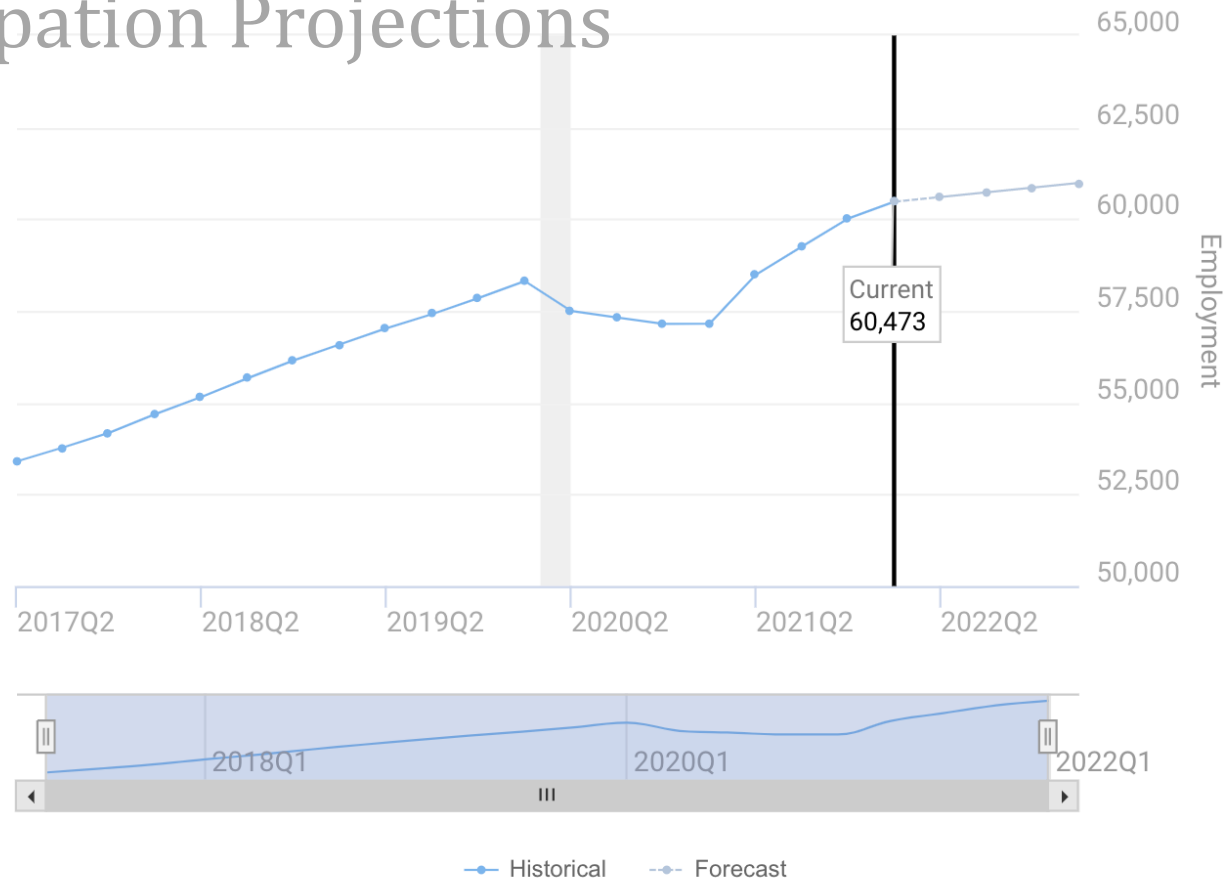
Employment by Industry

% Occupational Employment



Healthcare Practitioner & Technical Specialists ¹⁴

Occupation Projections



Source: JobsEQ®, Data as of 2022Q1, The shaded areas of the graph represent national recessions.

Employed	60,473
5-Year Empl Change	7,512
5-Year Ann % Change	2.7%
1-Year Demand	3,887
1-Year Exits (left occupation)	1,573
1-Year Transfers (new job)	1,801
1-Year Net Growth	513
1-Year Ann % Growth	0.8%
Online Job Ads (last 30 days)	7,300

- 1-year projected growth the same as all other occupations (0.8%)
- Job ads represent about **12%** of currently employed in occupation

Healthcare Practitioner & Technical Specialists ¹⁵

Employer Demand in Last 12 Months

Occupation	Avg Mean Wages	Mean Wages "n"	LQ	Annual Demand
Registered Nurses	\$88,800	17,286	0.66	1,013
Licensed Practical and Licensed Vocational Nurses	\$57,200	4,706	0.87	406
Pharmacy Technicians	\$41,400	2,660	0.71	191
Physicians, All Other	\$217,000	2,631	1.11	72
Dental Hygienists	\$90,000	2,057	1.14	150
Pharmacists	\$124,300	1,849	0.67	58
Dentists, General	\$175,500	1,728	1.54	59
Physical Therapists	\$98,300	1,724	0.83	107
Medical Records Specialists	\$59,600	1,679	1.06	125
Nurse Practitioners	\$123,700	1,669	0.80	173
Remaining Component Occupations	\$115,400	22,486	0.83	1,513
Healthcare Practitioners and Technical Occupations	\$103,800	60,473	0.78	3,887

Top requested occupational certifications: Emergency Nursing Pediatric Course, Registered Nurse, Medical Technologist, Registered Veterinary Technician, Medical Laboratory Technician, Neonatal Resuscitation Program, Certified Hemodialysis Technologist, Psychiatric-Mental Health Nurse Practitioner, Emergency Medical Technician

Top requested hard skills: Long-Term Care, Critical Care, Working with Children, Cash Handling, Electrocardiogram, Physiology, Assisted Living, Intensive Care Unit, Sales, Microsoft Office

Healthcare Practitioner & Technical Specialists ¹⁶

Wages

Occupation	Mean	Median	Entry Level	Experienced
Cardiologists	\$416,300	\$382,900	\$231,700	\$508,500
Anesthesiologists	\$366,800	\$290,200	\$166,700	\$466,900
Orthodontists	\$356,000	\$269,700	\$150,300	\$458,800
Neurologists	\$348,700	\$262,800	\$124,500	\$460,800
Emergency Medicine Physicians	\$348,400	\$293,500	\$160,700	\$442,200
Dermatologists	\$335,800	\$237,500	\$139,300	\$434,000
Ophthalmologists, Except Pediatric	\$329,900	\$252,600	\$150,200	\$419,800
Oral and Maxillofacial Surgeons	\$322,500	\$260,200	\$133,400	\$417,000
Orthopedic Surgeons, Except Pediatric	\$321,400	\$256,600	\$132,900	\$415,700
Pediatric Surgeons	\$318,600	\$238,200	\$138,500	\$408,600

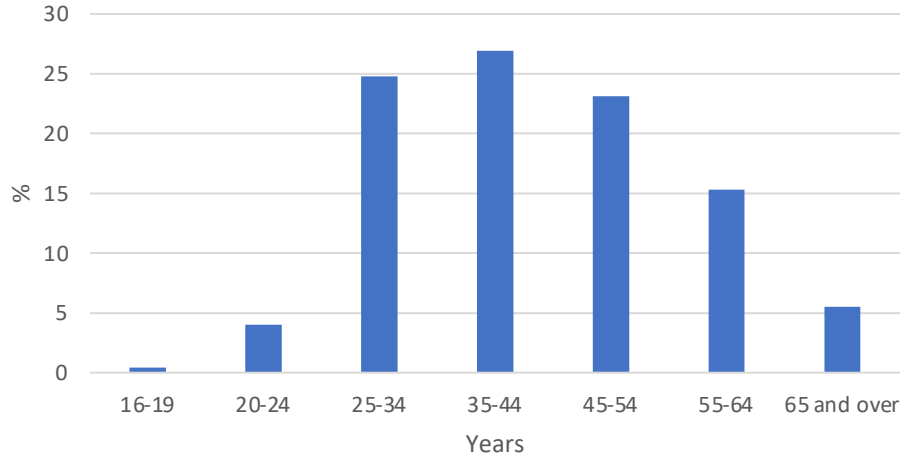
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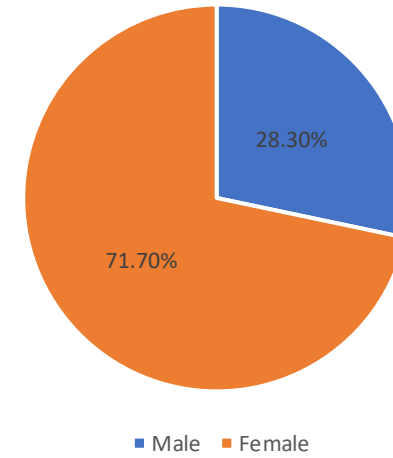
Healthcare Practitioner & Technical Specialists

Demographic Characteristics

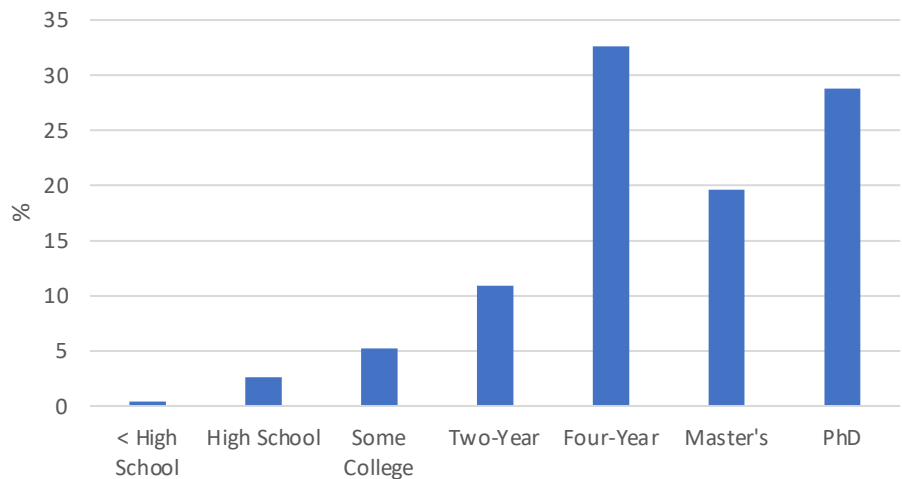
Age Distribution



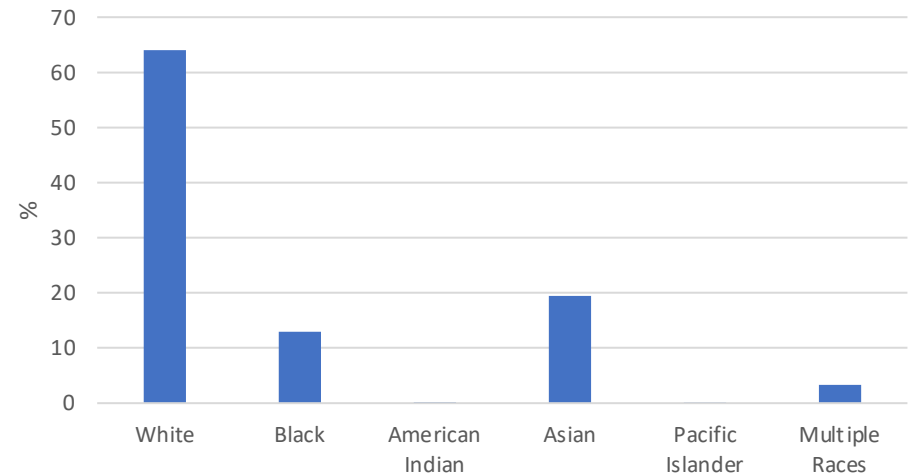
Gender Distribution



Educational Attainment



Race Distribution



Source: JobsEQ, Data as of 2022Q1.

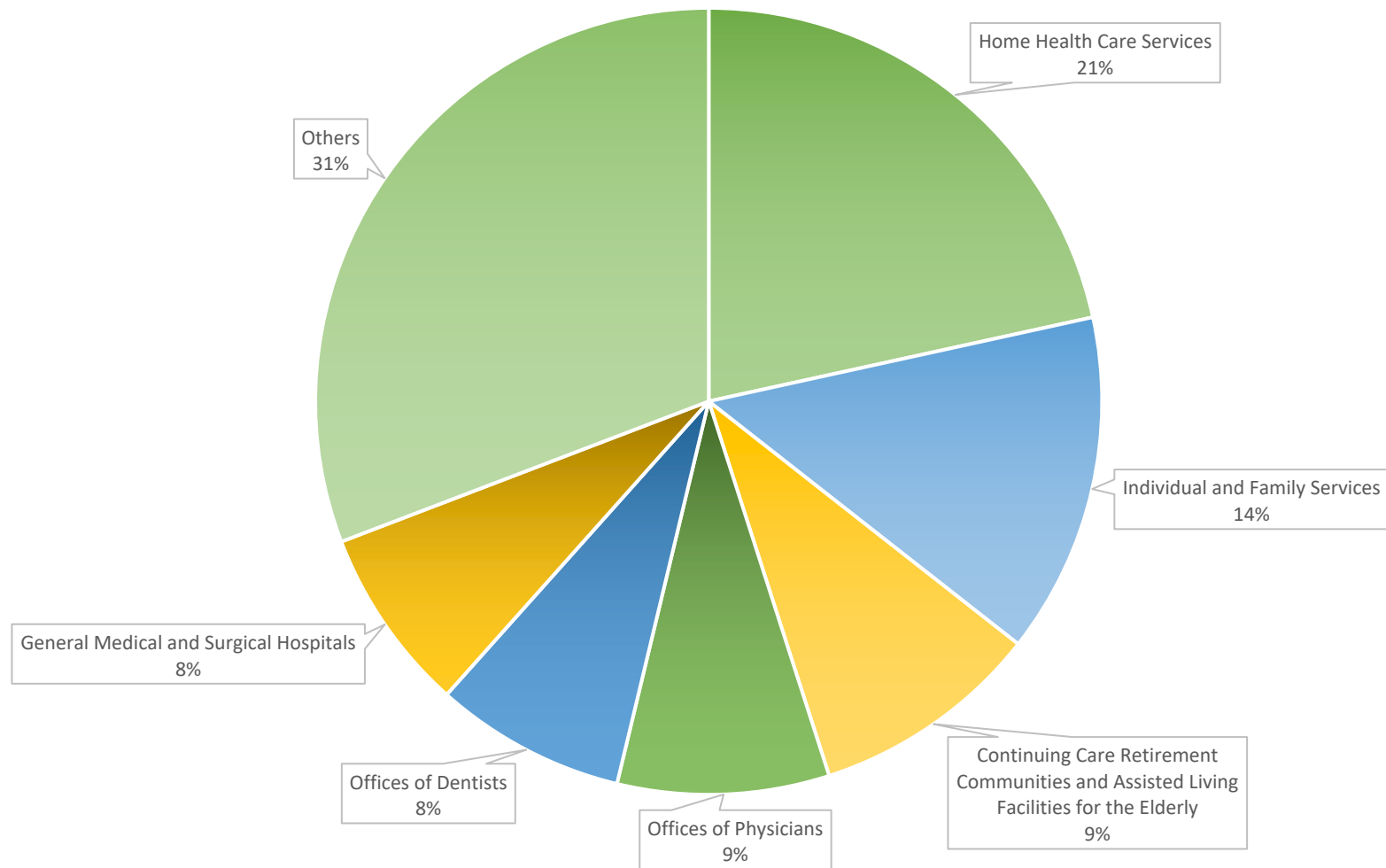
Health Support Occupations (SOC 31-0000)

Includes: Home Health and Personal Care Aides; Psychiatric Aides; Orderlies; Nursing Assistants; Occupational Therapy Aides; Occupational Therapy Assistants; Physical Therapist Aides; Physical Therapist Assistants; Massage Therapists; Healthcare Support Workers; Pharmacy Aides; Medical Transcriptionists; Medical Equipment Preparers; Veterinary Assistants and Laboratory Animal Caretakers; Phlebotomists; Dental Assistants; Medical Assistants

Health Support Occupations

Employment by Industry

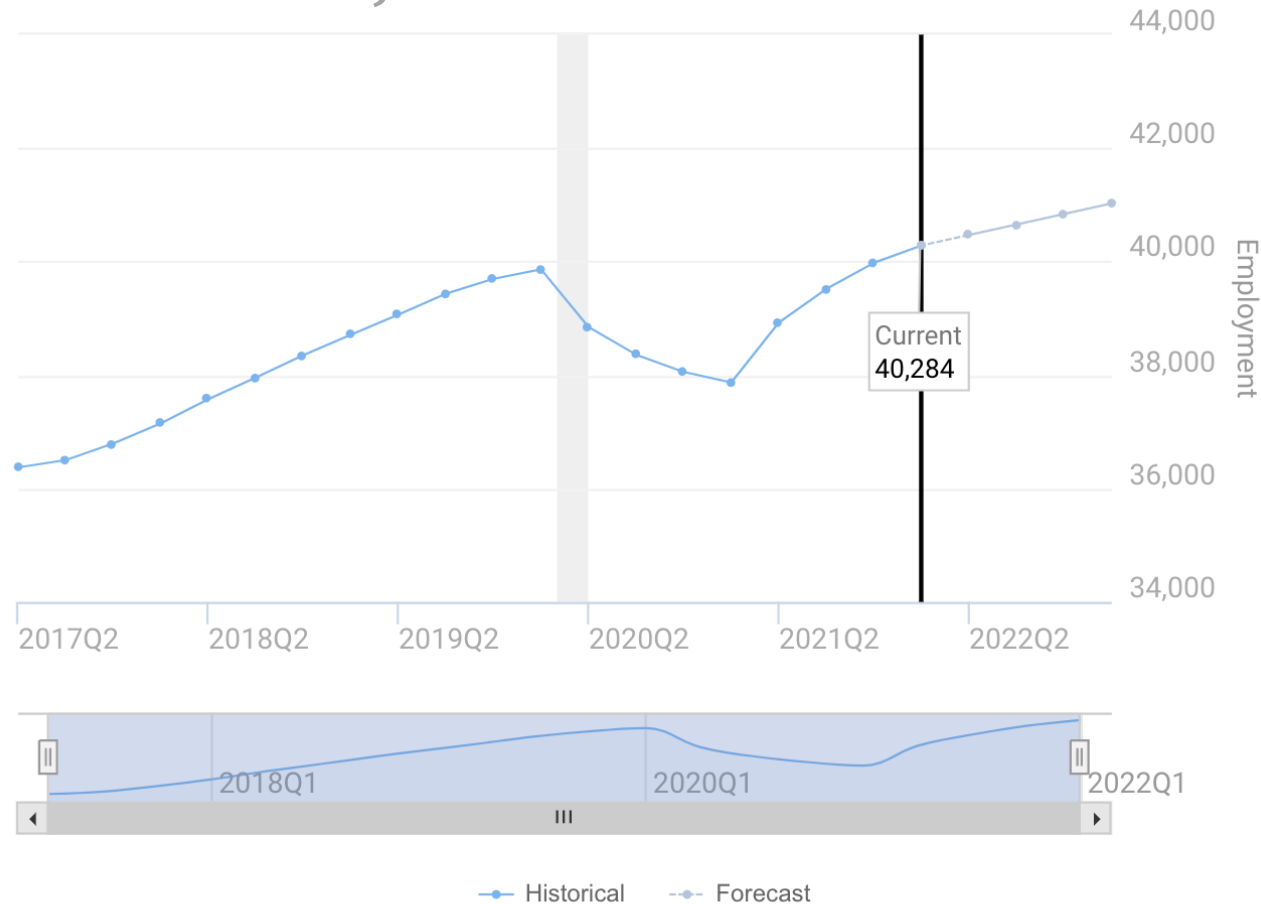
% Occupational Employment



Source: JobsEQ, Industry Snapshot. Data as of 2022Q1.

Health Support Occupations

Occupational Projections



Employed	40,284
5-Year Empl Change	3,942
5-Year Ann % Change	2.1%
1-Year Demand	6,136
1-Year Exits (left occupation)	2,578
1-Year Transfers (new job)	2,818
1-Year Net Growth	741
1-Year Ann % Growth	1.8%
Online Job Ads (last 30 days)	2,256

Source: .JobsEQ® Data as of 2022Q1 The shaded areas of the graph represent national recessions

- 1-year projected growth almost **1.0%** more than all other occupations (0.8%)
- Job ads represent about **5.6%** of currently employed in occupation

Health Support Occupations

Employer Demand in Last 12 Months

Occupation	Avg Mean Wages	Mean Wages "n"	LQ	Annual Demand
Personal Care Aides	\$30,500	13,792	0.61	2,411
Nursing Assistants	\$35,800	7,585	0.68	1,012
Home Health Aides	\$30,500	4,798	0.61	699
Medical Assistants	\$43,000	4,487	0.71	615
Dental Assistants	\$49,700	3,346	1.11	432
Massage Therapists	\$58,100	1,188	0.97	181
Veterinary Assistants and Laboratory Animal Caretakers	\$36,600	1,180	1.34	213
Phlebotomists	\$45,100	1,052	0.90	153
Physical Therapist Assistants	\$66,100	685	0.85	114
Healthcare Support Workers, All Other	\$50,000	473	0.52	60
Remaining Component Occupations	\$44,300	1,698	0.63	235
Healthcare Support Occupations	\$37,300	40,284	0.69	6,136

Top requested occupational certifications: Certified Nursing Assistant, National Phlebotomist Association Certified Phlebotomist, Patient Care Technician, Certified Home Health Aide, Assistant Laboratory Animal Technician, Certified Registered Central Service Technician, Laboratory Animal Technician, Certified Sterile Processing and Distribution Technician, Registered Medical Assistant, State Tested Nursing Assistant

Top requested hard skills: Long-Term Care, Sterilization, Assisted Living, Geriatric, Microsoft Word, Data Entry, Microsoft Office, Order Fulfillment, Personal Computers, JavaScript

Health Support Occupations

Wages

Occupation	Mean	Median	Entry Level	Experienced
Occupational Therapy Assistants	\$73,600	\$74,000	\$53,300	\$83,700
Physical Therapist Assistants	\$66,100	\$63,400	\$41,300	\$78,400
Massage Therapists	\$58,100	\$49,700	\$31,800	\$71,300
Healthcare Support Workers, All Other	\$50,000	\$47,300	\$33,100	\$58,500
Dental Assistants	\$49,700	\$48,300	\$36,900	\$56,100
Phlebotomists	\$45,100	\$45,300	\$36,400	\$49,500
Medical Equipment Preparers	\$43,300	\$39,100	\$32,100	\$48,900
Medical Assistants	\$43,000	\$39,600	\$32,700	\$48,200
Medical Transcriptionists	\$41,700	\$38,600	\$25,200	\$49,900
Occupational Therapy Aides	\$40,700	\$38,500	\$31,800	\$45,200

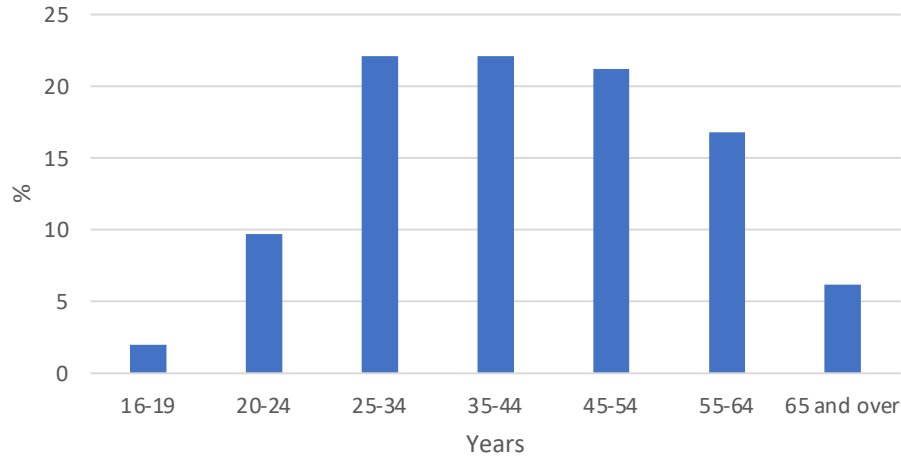
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Living wage for 1 adult 0 children \$19.40 per hour or \$40,352 annually (2,080 hours worked)

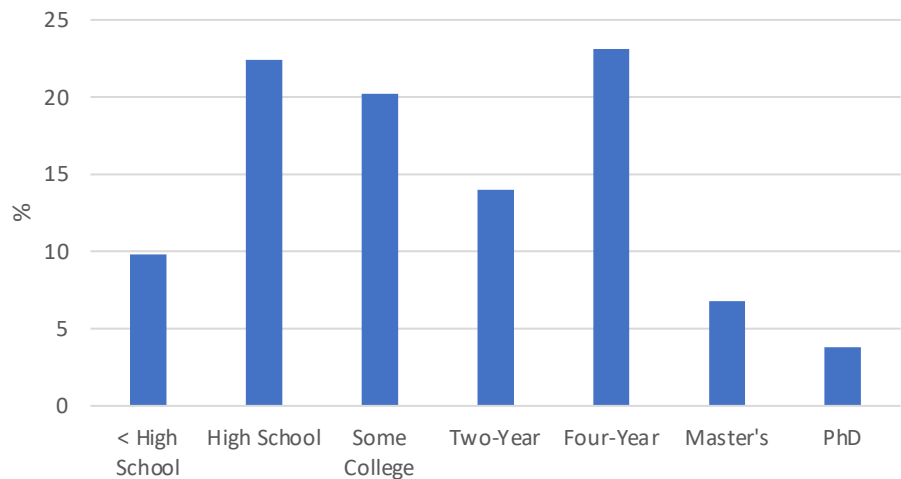
Health Support Occupations

Demographic Characteristics

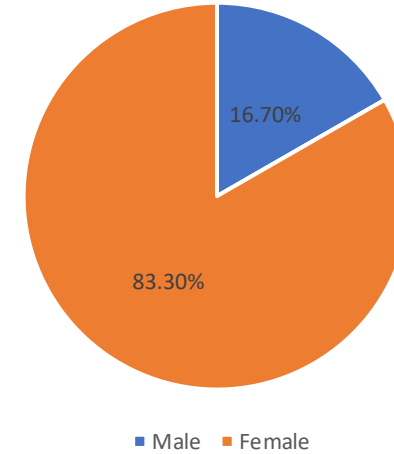
Age Distribution



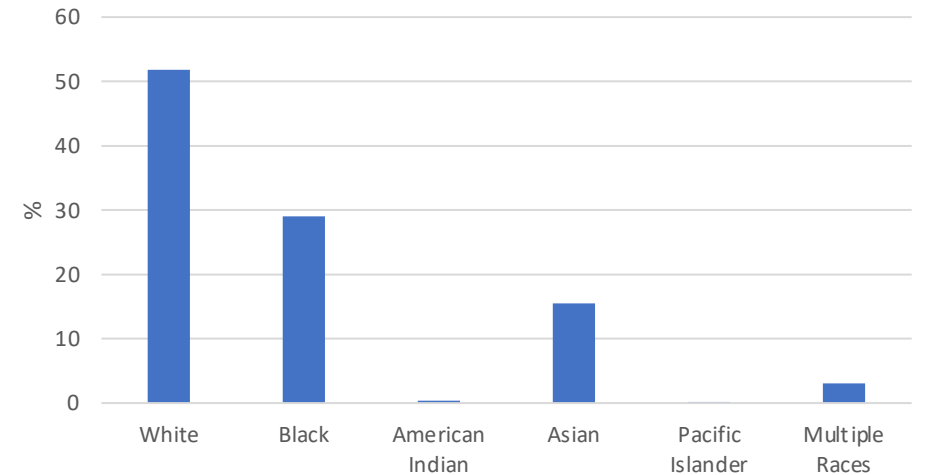
Educational Attainment



Gender Distribution



Race Distribution



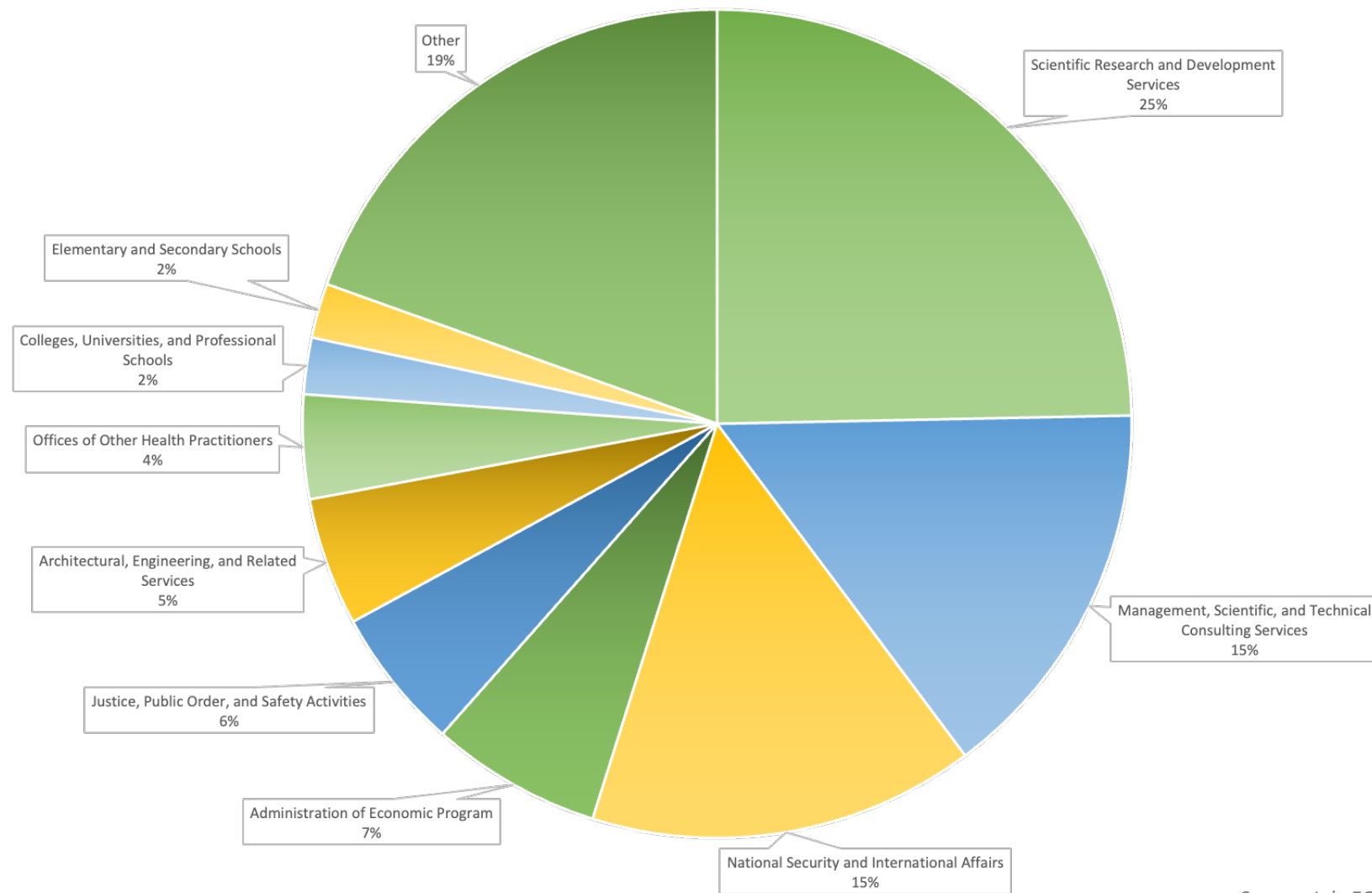
Source: JobsEQ, Data as of 2022Q1.

Life, Physical, and Social Sciences Occupations (SOC 19-0000)

Includes: Medical scientists, conservationists, chemists, environmentalists, sociologists, social science researchers, occupational health and safety specialists

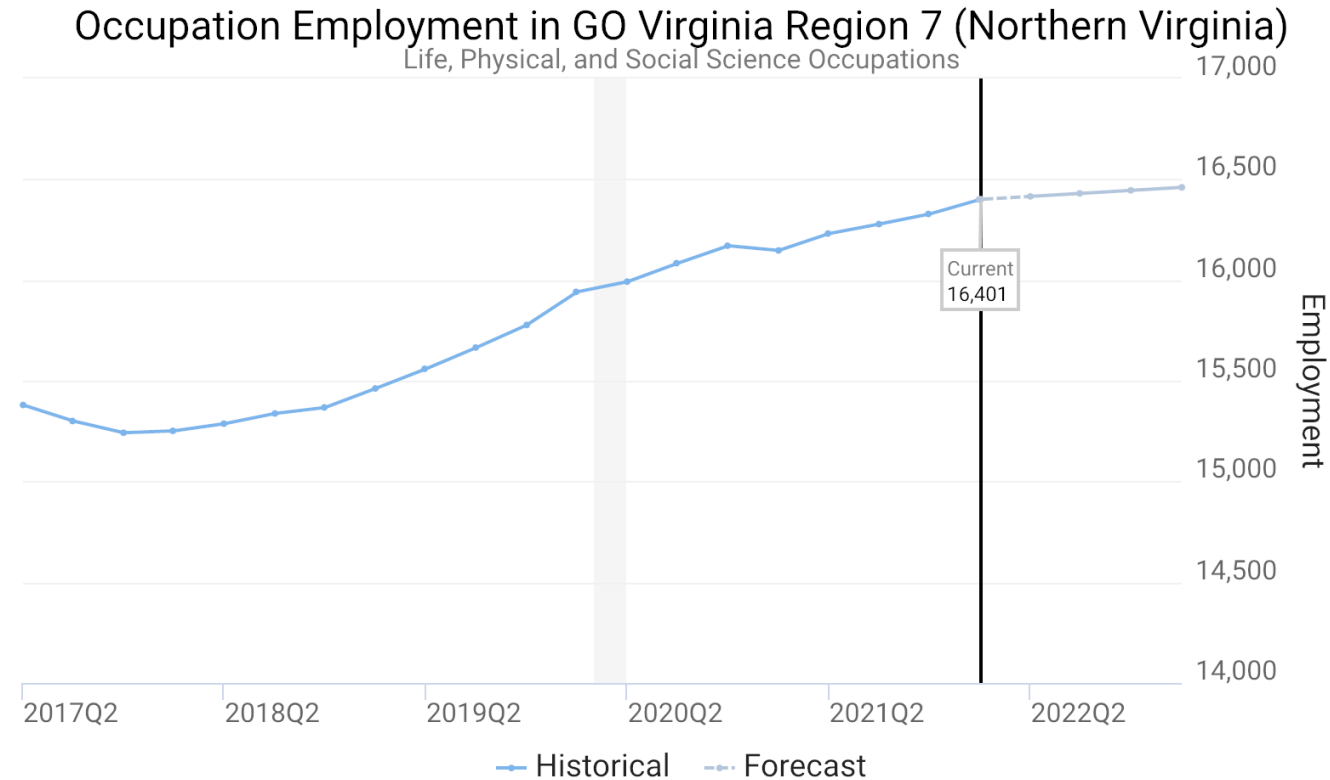
Life, Physical, & Social Sciences

Employment by Industry % of Occupational Employment



Life, Physical, & Social Sciences

Occupation Projections



Source: JobsEQ®, Data as of 2022Q1, The shaded areas of the graph represent national recessions.

Employed	16,401
5-Year Empl Change	930
5-Year Ann % Change	1.2
1-Year Demand	1,515
1-Year Exits (left occupation)	343
1-Year Transfers (new job)	1,114
1-Year Net Growth	58
1-Year Ann % Growth	0.4
Online Job Ads (last 30 days)	1,295

- 1-year projected growth almost **0.4%** less than all other occupations (0.8%)
- Job ads represent about **7.6%** of currently employed in occupation

Life, Physical, & Social Sciences

Employer Demand in Last 12 Months

Occupation	Avg Mean Wages	Mean Wages "n"	LQ	Annual Demand
Social Scientists and Related Workers, All Other	\$114,000	\$111,800	6.34	166
Environmental Scientists and Specialists, Including Health	\$106,100	\$102,400	1.9	132
Occupational Health and Safety Specialists	\$90,600	\$89,700	1.3	93
Medical Scientists, Except Epidemiologists	\$127,600	\$121,800	1.21	102
Biological Technicians	\$64,600	\$62,600	1.2	99
Psychologists, All Other	\$110,200	\$110,600	1.49	44
Chemists	\$133,200	\$132,500	0.85	50
Physical Scientists, All Other	\$142,600	\$146,600	3.06	41
Biochemists and Biophysicists	\$120,900	\$128,900	1.81	50
Biological Scientists, All Other	\$112,500	\$103,200	1.21	41
Remaining Component Occupations	\$93,400	\$88,000	1.46	694

Top requested occupational certifications: Microsoft Office, Python, Teaching/Training, Statistical Analysis System, Microsoft PowerPoint, Cell Culture, MATLAB, Statistical Analysis Software, Mathematics, Hazardous Waste Operations and Emergency Response Standard

Top requested hard skills: Secret Clearance, Certification in Cardiopulmonary Resuscitation, First Aid Certification, Certified Industrial Hygienist, OSHA, Certified Arborist, Commercial Driver's License, Certified Hazardous Materials Manager, Basic Life Support

Life, Physical, & Social Sciences

Wages

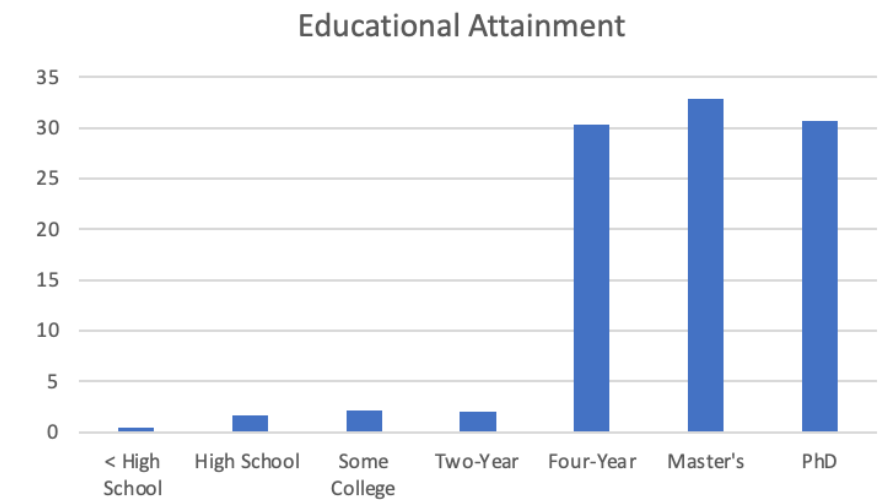
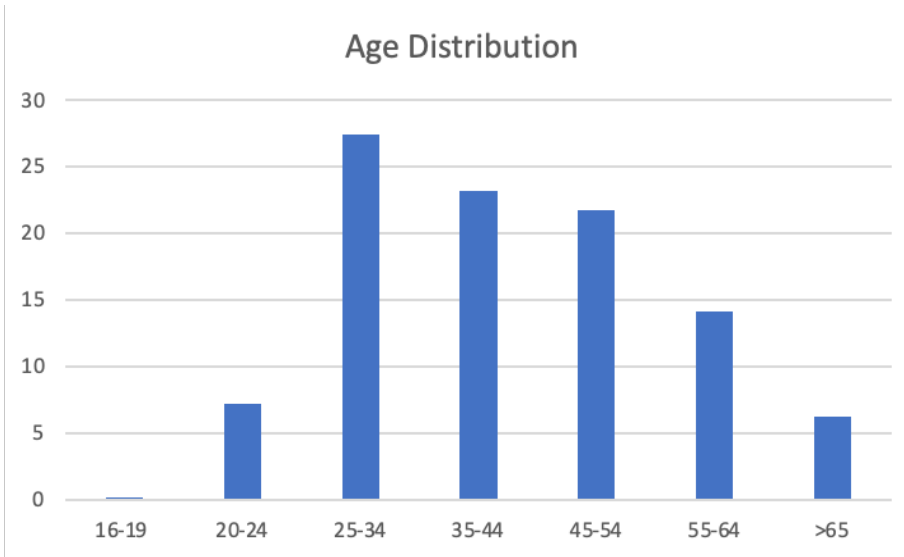
Occupation	Mean	Median	Entry Level	Experienced
Physical Scientists, All Other	\$142,600	\$146,600	\$101,500	\$163,100
Astronomers	\$140,100	\$142,500	\$92,700	\$163,800
Industrial-Organizational Psychologists	\$137,200	\$125,900	\$82,000	\$164,800
Physicists	\$137,000	\$139,100	\$84,500	\$163,300
Hydrologists	\$133,600	\$125,000	\$100,300	\$150,200
Chemists	\$133,200	\$132,500	\$90,200	\$154,700
Economists	\$130,600	\$124,800	\$80,900	\$155,500
Medical Scientists, Except Epidemiologists	\$127,600	\$121,800	\$82,600	\$150,200
Political Scientists	\$121,800	\$123,800	\$80,300	\$142,500
Biochemists and Biophysicists	\$120,900	\$128,900	\$74,600	\$144,000

Virginia Minimum Wage 2022 is \$11 per hour or \$22,880 annually (2,080 hours worked)

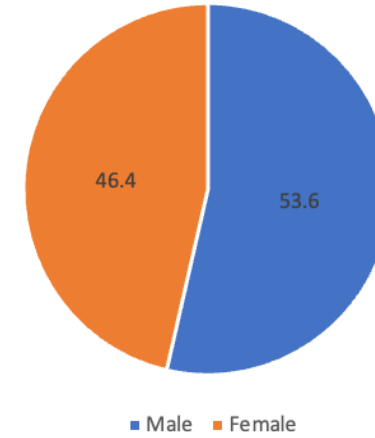
Living wage for 1 adult 0 children \$19.40 per hour or \$40,352 annually (2,080 hours worked)

Life, Physical, & Social Sciences

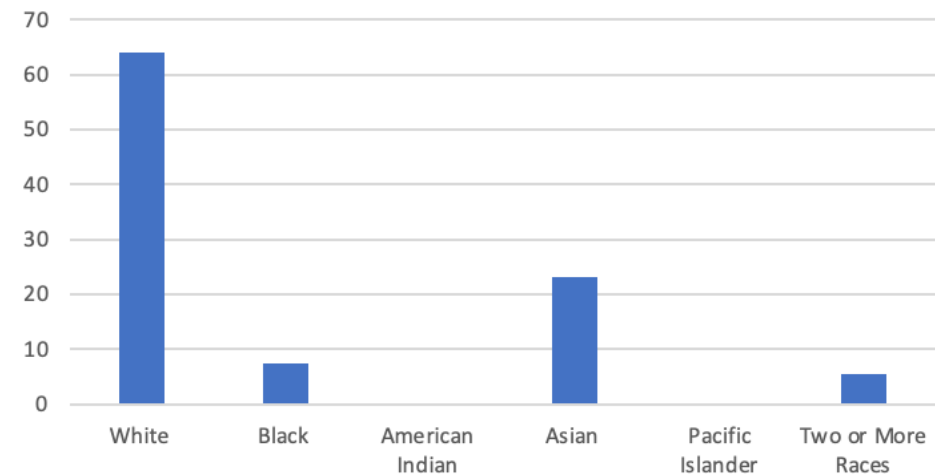
Demographic Characteristics



Gender Distribution



Race Distribution



Inventory of Health Science Program Offerings³⁰

CTE Programs in Health Sciences

School Year	Dental Assistant I	Dental Assistant II	Emergency Medical Technician I	Emergency Medical Technician II	Emergency Medical Telecommunications	Health and Medical Sciences - Dual Enrollment	Health Assisting Careers	Health Informatics	Intro to Health & Medical Sciences	Intro to Nutrition for Health & Medical Sciences	Medical Assistant I	Medical Assistant II	Medical Coding and Billing I	Medical Laboratory Technology I	Medical Laboratory Technology II	Medical Systems Administration	Medical Terminology	Mental Health Assisting Careers	Nurse Aide I	Nurse Aide II	Patient Care Technician	Pharmacy Technician I	Pharmacy Technician II	Physical/Occupational Therapy	Practical Nursing I	Practical Nursing II	Sports Medicine I	Sports Medicine II	Surgical Technologist I
2019																1				1			1						
	# Courses															9				1			12						
2018	# Courses	1	1	3	2	1		1		6	1	1	1	1				1		1	1	3	1	2	1	2	3	2	
	# Students	24	47	63	42	2		5		174	94	214	1	9			28		1		3	109	44	33	2	4	32	5	
2017	# Courses	1	1	3	2			1		4	2	2		1				2		1		3	1	3		1	3	1	1
	# Students	80	64	73	36			5		195	113	264		5				2		2		100	29	52		3	32	6	1
2016	# Courses	2		3			1		4		2	1		1				1		1		3	1	3	1		1	1	1
	# Students	111		53			27		152		94	132		16			3		35			47	198	49	5		13	2	5
2015	# Courses	1	1	1	3		1		5		2	1		1				1		1		3	2	4	3	1	1	1	1
	# Students	77	17	3	54		25		144		103	36		16			15		23			119	151	57	20	2	10	2	2
2014	# Courses	1	1		4		1	1	5		2	1		2				3		2		3	1	3	2	1	1	1	1
	# Students	66	33		48		28	7	176		74	67		26			139		32			138	130	51	4	18	8	3	6
2013	# Courses	1	1	1	4		1		5		1			1	1			2	3	3		3	1	2	2				
	# Students	69	35	6	82		8		198			92		17	1		121	49	30			24	111	35	42				
2012	# Courses	1	1		2								1		1														
	# Students	11	35		51							55		1						13									
2011	# Courses	1	1		2							1										2	1	1	1				
	# Students	2	40		32						31									28		40	113	43	8				
2010	# Courses				4																								
	# Students				48																								
2009	# Courses		1		3													1		2									
	# Students		2		42															7									
2008	# Courses				2																	1							
	# Students				67																	121							

Registered Nursing Programs

Schools	Certs & 2yr Awards	4yr Awards	Post-Grad Awards	Avg Net Price
George Mason University		180	42	\$18,285
Stratford University		189		\$24,436
Chamberlain University-Virginia		154		
Marymount University		117		\$24,224
Northern Virginia Community College	97			\$9,153
Standard Healthcare Services-College of Nursing	65			\$26,241
Strayer University-Virginia				\$23,189
Total	162	640	42	

Average net price represents full-time beginning undergraduate students who paid the in-state or in-district tuition rate and were awarded grant or scholarship aid from federal, state or local governments, or the institution.
Data as of the 2019-2020 academic year

For questions regarding presentation content/data, please contact:

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