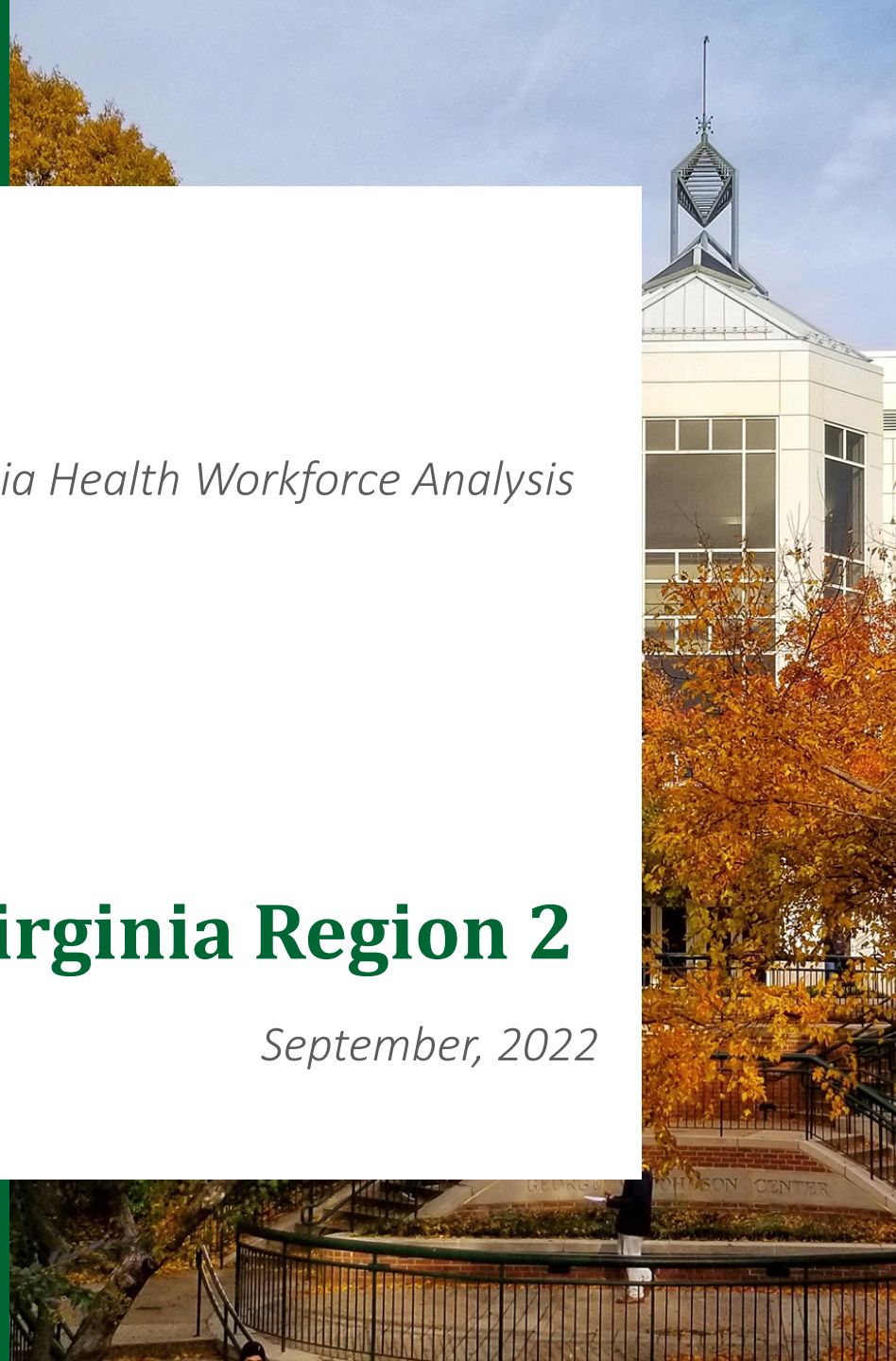




Virginia Health Workforce Analysis

GO Virginia Region 2

September, 2022



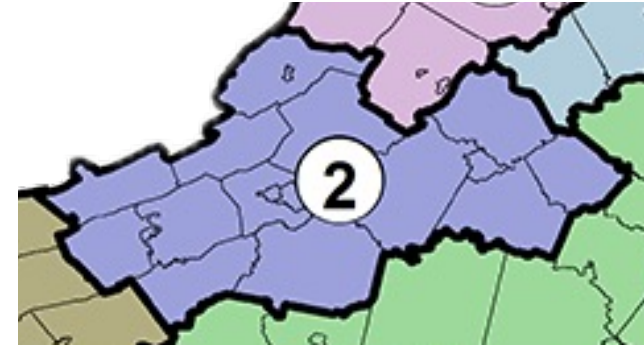
Purpose

Provide a regional workforce analysis on health and human services related occupations in **GO Virginia Region 2**, via a review of:

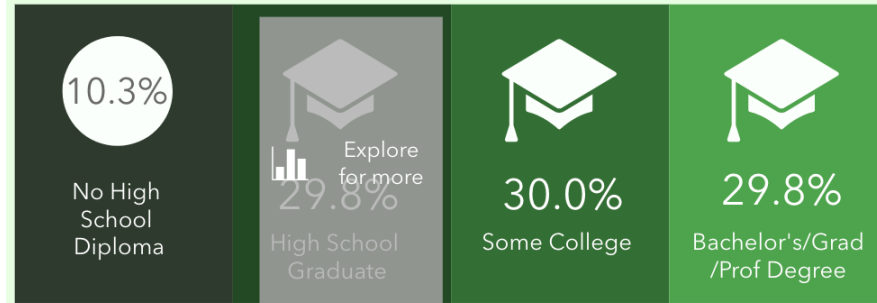
- Regional demographic profile
- Health workforce demand with 2022 Q1 estimates
 - Healthcare Practitioners & Technical Occupations (SOC 29-0000)
 - Healthcare Support Occupations (SOC 31-0000)
 - Community & Social Service Occupations (SOC 21-0000)
 - Life, Physical, and Social Science Occupations (SOC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

Stakeholder Region

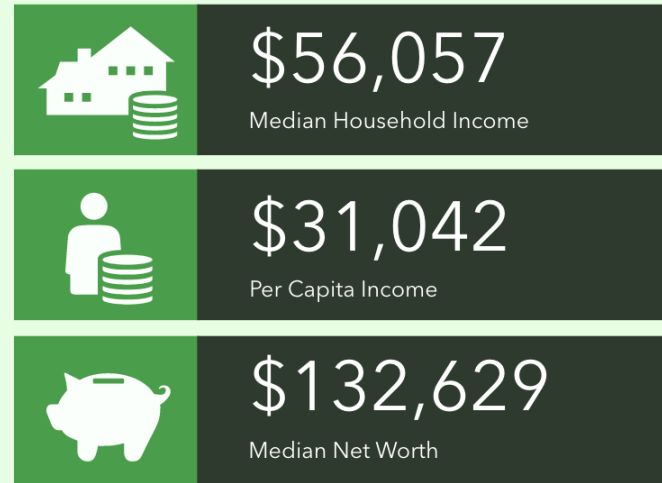
County	Workforce Development Area (WDA) Region	WDA Region
Floyd	New River/Mt. Rogers	2
Giles	New River/Mt. Rogers	2
Montgomery	New River/Mt. Rogers	2
Pulaski	New River/Mt. Rogers	2
Radford	New River/Mt. Rogers	2
Alleghany	Western Virginia	3
Botetourt	Western Virginia	3
Covington	Western Virginia	3
Craig	Western Virginia	3
Franklin County	Western Virginia	3
Roanoke City	Western Virginia	3
Roanoke County	Western Virginia	3
Salem	Western Virginia	3
Amherst	Region 2000/Central Virginia	7
Appomattox	Region 2000/Central Virginia	7
Bedford County	Region 2000/Central Virginia	7
Campbell	Region 2000/Central Virginia	7
Lynchburg	Region 2000/Central Virginia	7



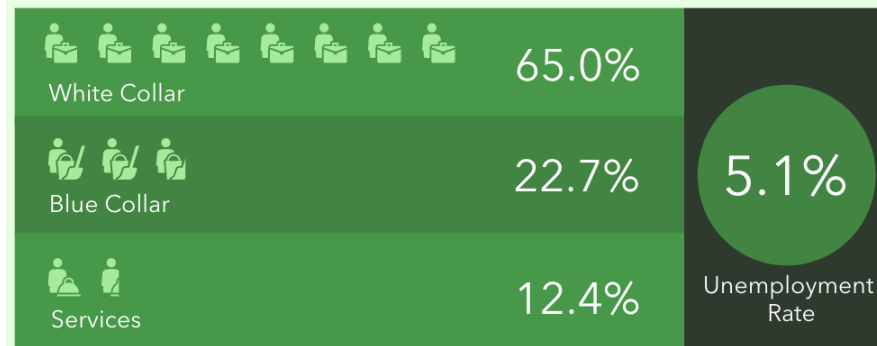
EDUCATION



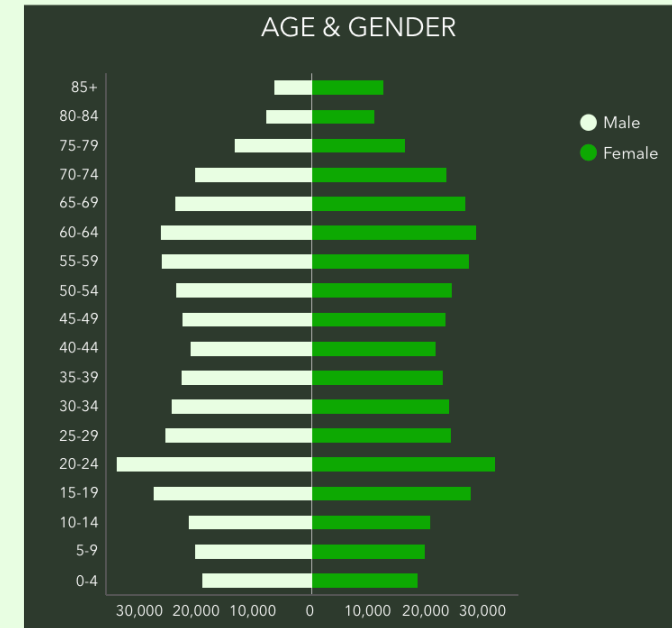
INCOME



EMPLOYMENT



KEY FACTS



Between **18.5-37%** of each county population has **HS diploma**

5 of 18 counties have approximately 8-10% of a population with an **education less than HS**

Median age between **24** and **49** years old

Median HH income is **BELOW** Virginia median (\$74,222) in **15 of 18** counties

Median HH income ranges from **\$40,176** and **\$79,273**

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

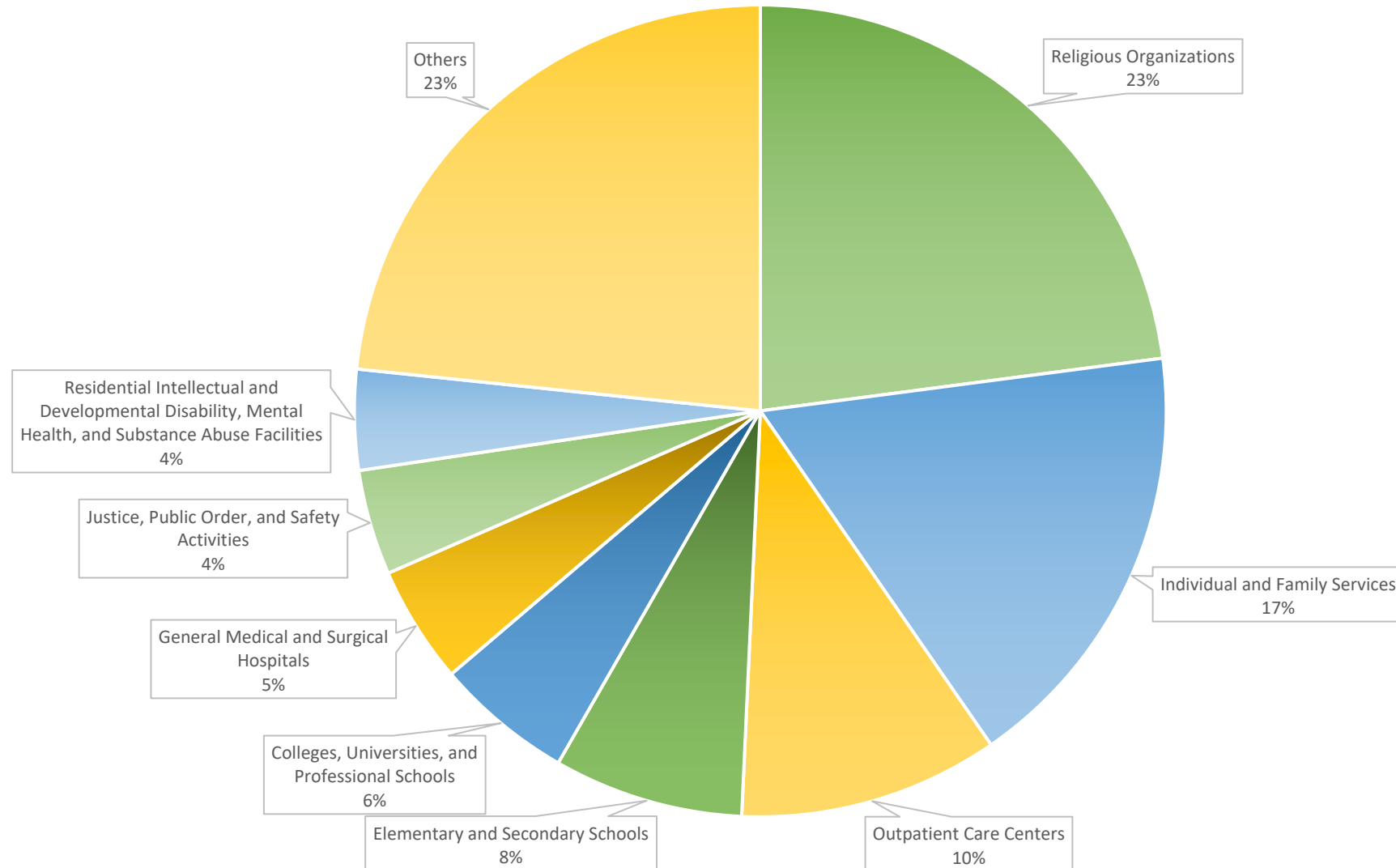
Community & Social Services Occupations (SOC 21-0000)

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

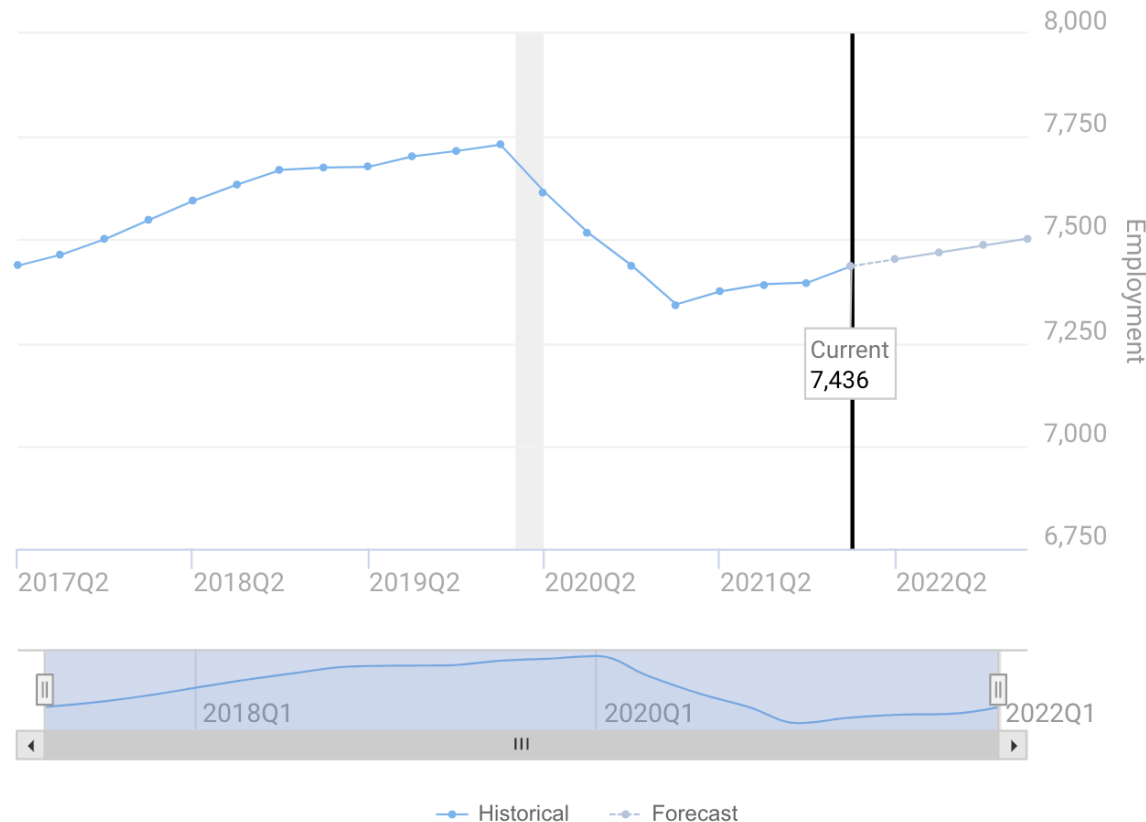
Employment by Industry

% Occupational Employment



Community & Social Service Specialists

Occupation Projections



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

Employed	7,436
5-Year Empl Change	24
5-Year Ann % Change	0.1%
1-Year Demand	823
1-Year Exits (left occupation)	267
1-Year Transfers (new job)	490
1-Year Net Growth	67
1-Year Ann % Growth	0.9%
Online Job Ads (last 30 days)	879

- 1-year projected growth almost **0.8%** more than all other occupations (0.1%)
- Job ads represent about **12%** 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	\$47,600	1,319	1.71	151
Social and Human Service Assistants	\$30,700	967	1.06	129
Child, Family, and School Social Workers	\$45,500	794	1.06	85
Clergy	\$47,400	793	1.39	81
Educational, Guidance, and Career Counselors and Advisors	\$59,600	780	1.16	78
Directors, Religious Activities and Education	\$47,800	700	1.94	82
Healthcare Social Workers	\$53,400	407	1.03	40
Mental Health and Substance Abuse Social Workers	\$44,500	364	1.41	38
Rehabilitation Counselors	\$39,100	268	1.33	25
Community and Social Service Specialists, All Other	\$51,100	203	1.01	23
Remaining Component Occupations	\$44,400	840	0.78	90
Community and Social Service Occupations	\$46,000	7,436	1.21	823

Top requested occupational certifications: Licensed Professional Counselor, Board Certified Behavior Analyst, Basic Life Support, Registered Behavior Technician, Licensed Clinical Social Worker, Licensed Master Social Worker, Board Certified Assistant Behavior Analyst, Certified Rehabilitation Counselor, Certification in Cardiopulmonary Resuscitation, Clinical Nurse Specialist

Top requested hard skills: Microsoft Excel, Personal Computers, Mental Health, Report Writing/Report Preparation, Public Health, Microsoft Word, Microsoft Office, Bilingual, Teaching/Training, Marketing

Community & Social Service Specialists

Wages

Occupation	Mean	Median	Entry Level	Experienced
Social Workers, All Other	\$67,300	\$70,400	\$47,200	\$77,400
Health Education Specialists	\$59,700	\$52,400	\$37,200	\$70,900
Educational, Guidance, and Career Counselors and Advisors	\$59,600	\$53,200	\$41,000	\$68,900
Healthcare Social Workers	\$53,400	\$49,600	\$39,300	\$60,400
Community and Social Service Specialists, All Other	\$51,100	\$48,800	\$36,100	\$58,600
Directors, Religious Activities and Education	\$47,800	\$41,500	\$30,800	\$56,400
Substance Abuse, Behavioral Disorder, and Mental Health Counselors	\$47,600	\$46,000	\$35,500	\$53,600
Clergy	\$47,400	\$49,000	\$29,400	\$56,400
Marriage and Family Therapists	\$46,600	\$44,600	\$33,900	\$53,000
Child, Family, and School Social Workers	\$45,500	\$43,300	\$34,800	\$50,900

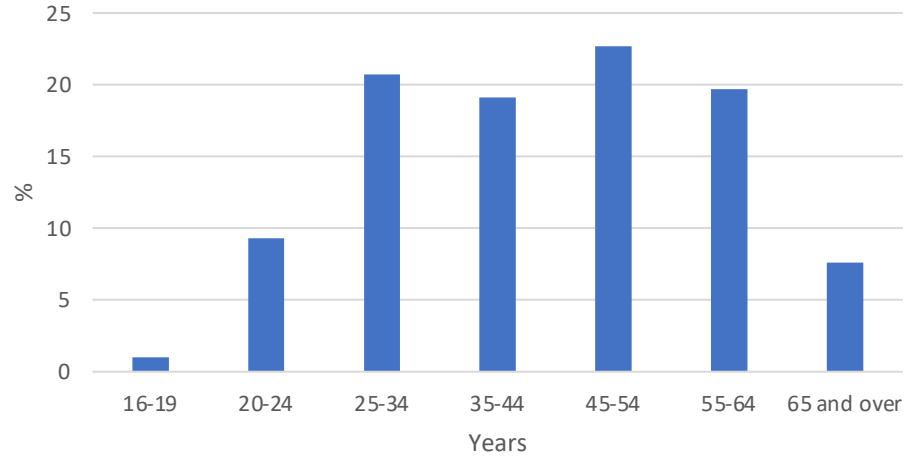
Virginia Minimum Wage 2022 is \$11 per hour or \$22,880 annually (2,080 hours worked)

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

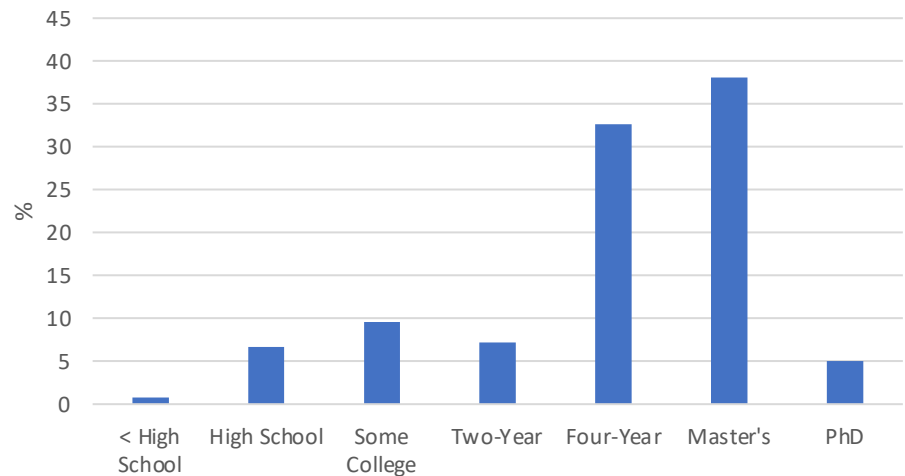
Community & Social Service Specialists

Demographic Characteristics

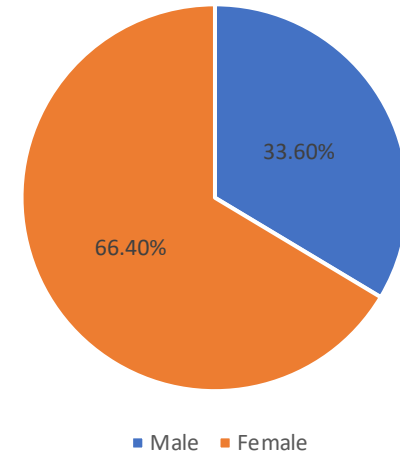
Age Distribution



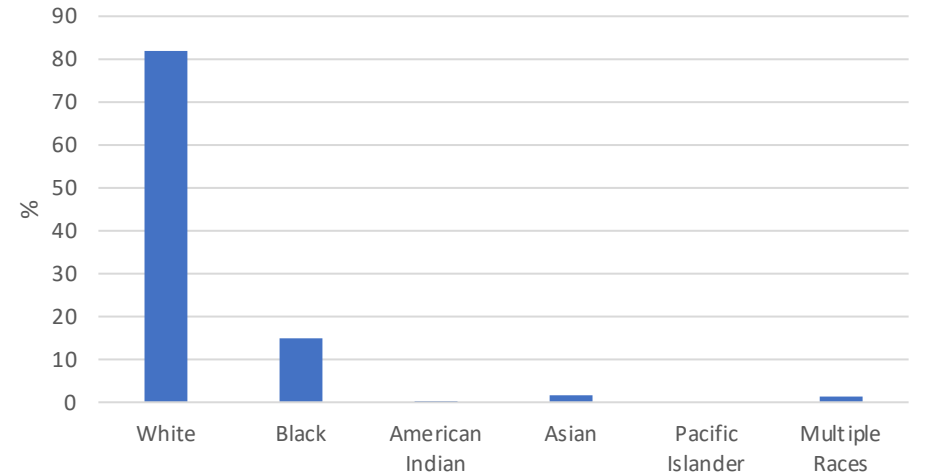
Educational Attainment



Gender Distribution



Race Distribution



Source: JobsEQ, Data as of 2022Q1.

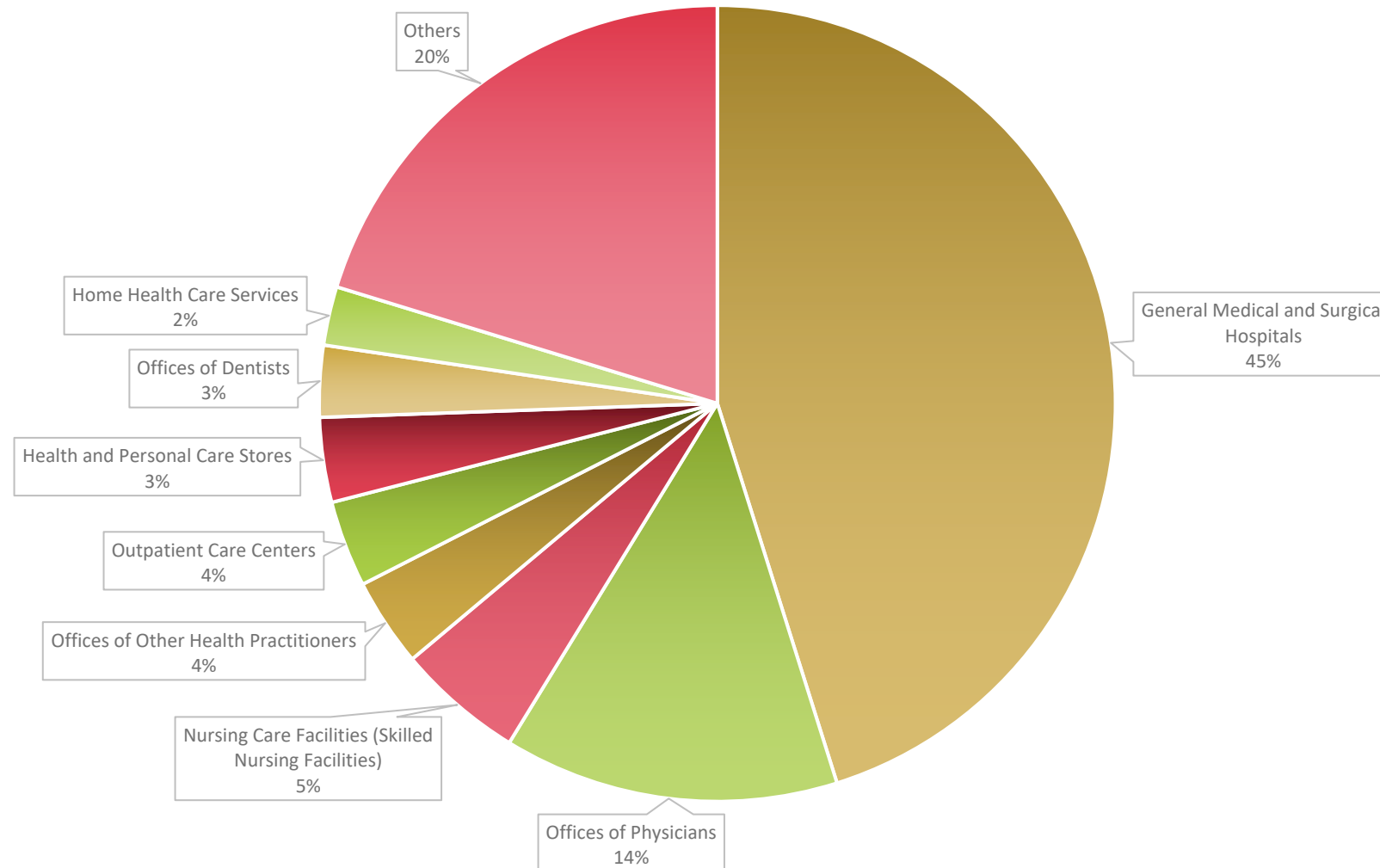
Healthcare Practitioners & Technical Occupations (SOC 29-0000)

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

Healthcare Practitioner & Technical Specialists

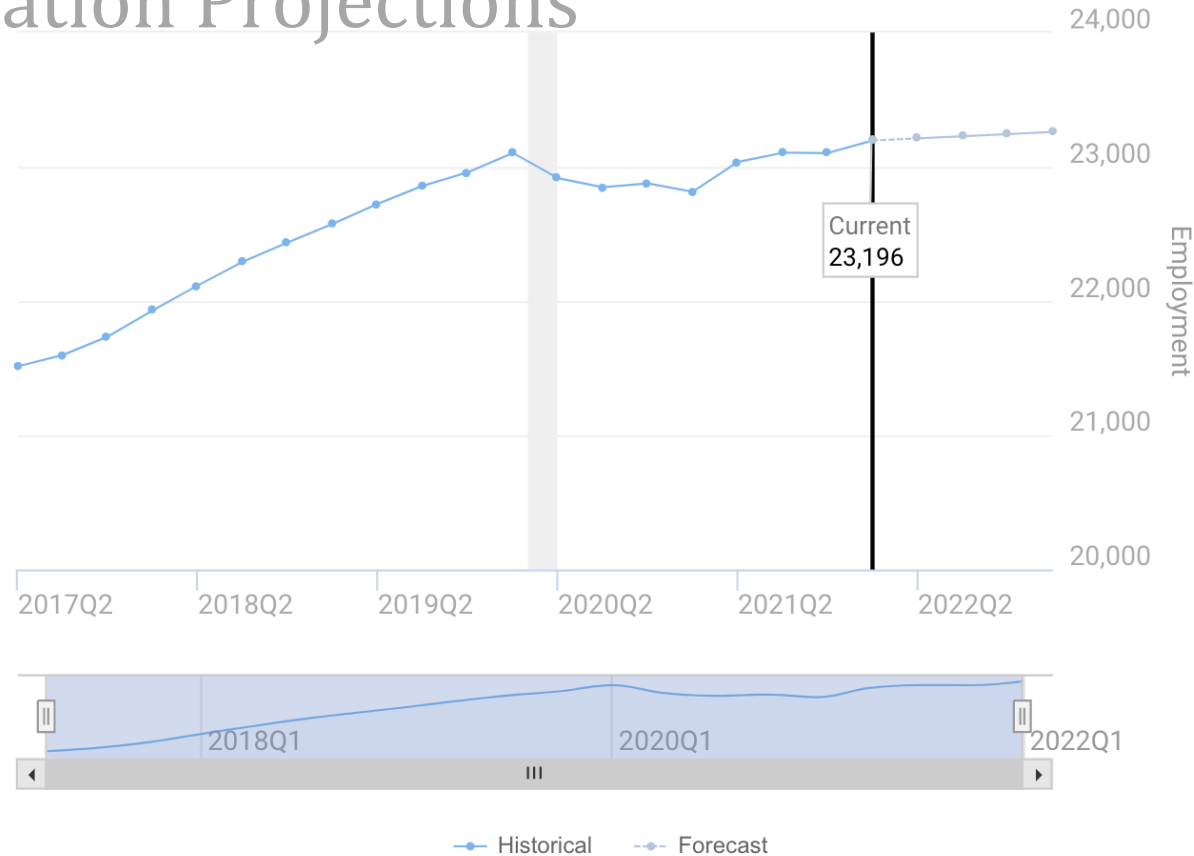
Employment by Industry

% Occupational Employment



Healthcare Practitioner & Technical Specialists¹⁴

Occupation Projections



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

Employed	23,196
5-Year Empl Change	1,793
5-Year Ann % Change	1.6%
1-Year Demand	1,350
1-Year Exits (left occupation)	590
1-Year Transfers (new job)	696
1-Year Net Growth	64
1-Year Ann % Growth	0.3%
Online Job Ads (last 30 days)	4,717

- 1-year projected growth almost **0.2%** more than all other occupations (0.1%)
- Job ads represent about **20%** 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	\$69,200	8,250	1.21	428
Licensed Practical and Licensed Vocational Nurses	\$45,400	1,829	1.30	142
Pharmacy Technicians	\$34,100	1,029	1.06	68
Pharmacists	\$119,600	735	1.03	20
Physicians, All Other	\$229,300	654	1.07	17
Nurse Practitioners	\$102,300	632	1.17	59
Radiologic Technologists and Technicians	\$57,800	614	1.26	43
Physical Therapists	\$88,900	597	1.10	31
Emergency Medical Technicians	\$33,700	502	1.41	36
Medical and Clinical Laboratory Technologists	\$50,900	432	1.16	28
Remaining Component Occupations	\$95,000	7,921	1.07	470
Healthcare Practitioners and Technical Occupations	\$80,700	23,196	1.15	1,350

Top requested occupational certifications: Registered Nurse, Pediatric Advanced Life Support, Advanced Cardiac Life Support Certification, Neonatal Resuscitation Program, Certified Pharmacy Technician, Medical Laboratory Technician, HAZMAT, Medical Technologist, Emergency Medical Technician

Top requested hard skills: Epic Systems, Medical Terminology, Home Health Care, Mathematics, Keyboarding/Typing, Loss Prevention, Personal Computers, Working with Children, Physiology, Insurance

Healthcare Practitioner & Technical Specialists ¹⁶

Wages

Occupation	Mean	Median	Entry Level	Experienced
Emergency Medicine Physicians	\$310,800	\$264,300	\$149,900	\$391,200
Cardiologists	\$302,300	\$285,400	\$180,200	\$363,300
Orthodontists	\$296,400	\$228,700	\$131,500	\$378,900
Radiologists	\$289,500	\$202,400	\$113,500	\$377,500
Ophthalmologists, Except Pediatric	\$278,400	\$216,100	\$132,400	\$351,400
Dermatologists	\$271,500	\$195,300	\$119,000	\$347,700
Anesthesiologists	\$258,100	\$210,000	\$131,500	\$321,300
Oral and Maxillofacial Surgeons	\$257,200	\$211,300	\$117,000	\$327,200
Pediatric Surgeons	\$255,100	\$194,100	\$118,100	\$323,700
Obstetricians and Gynecologists	\$247,500	\$213,400	\$126,200	\$308,100

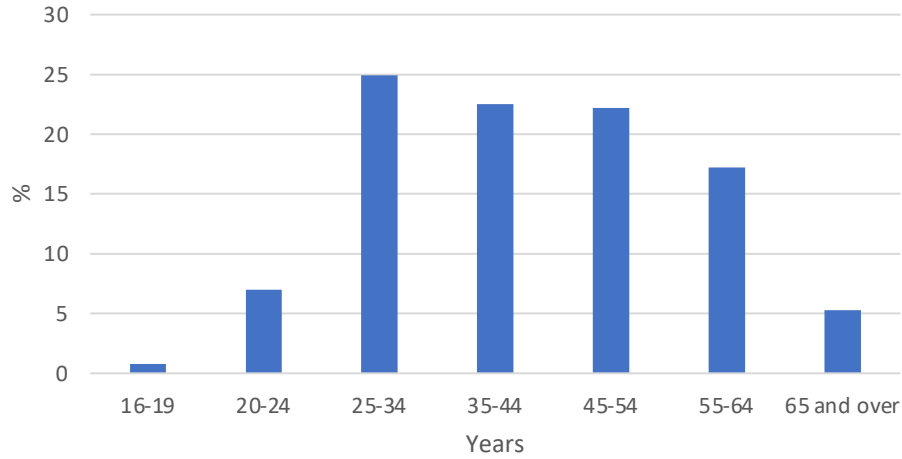
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Living wage for 1 adult 0 children \$19.40 per hour or \$40,352 annually (2,080 hours worked)

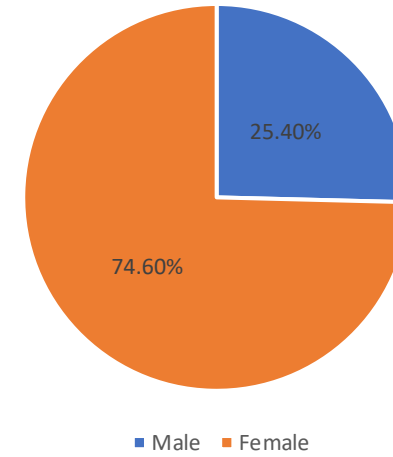
Healthcare Practitioner & Technical Specialists

Demographic Characteristics

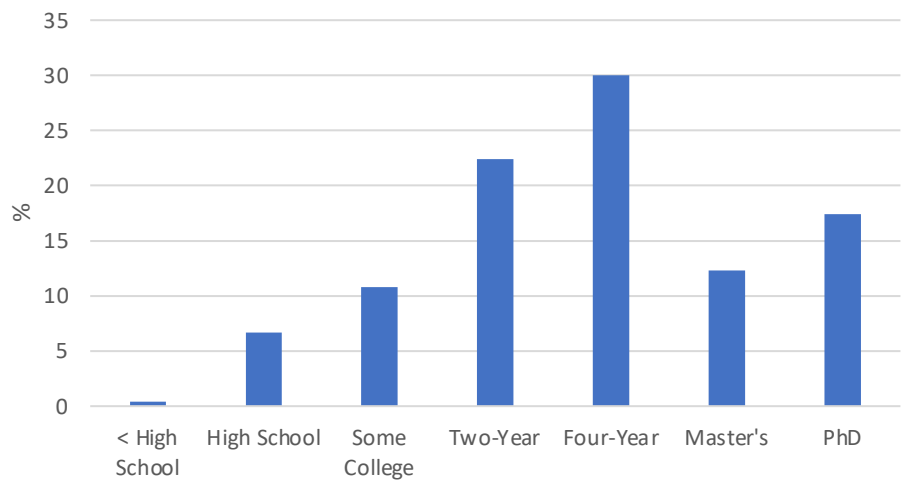
Age Distribution



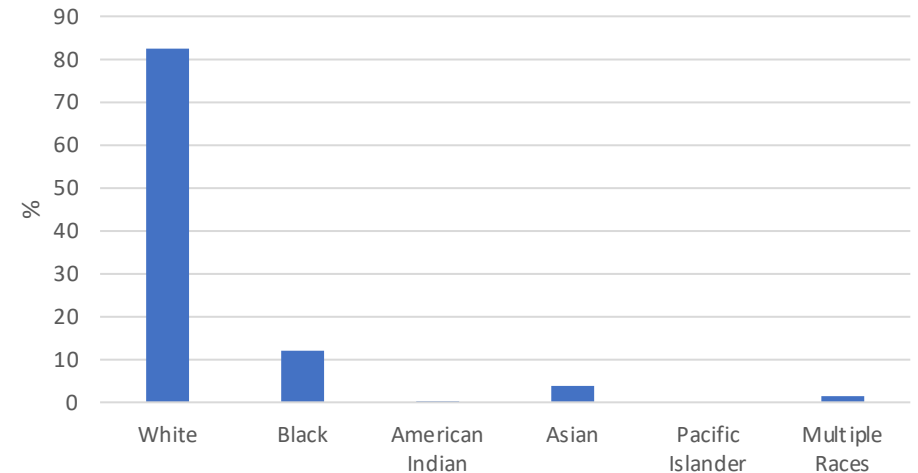
Gender Distribution



Educational Attainment



Race Distribution



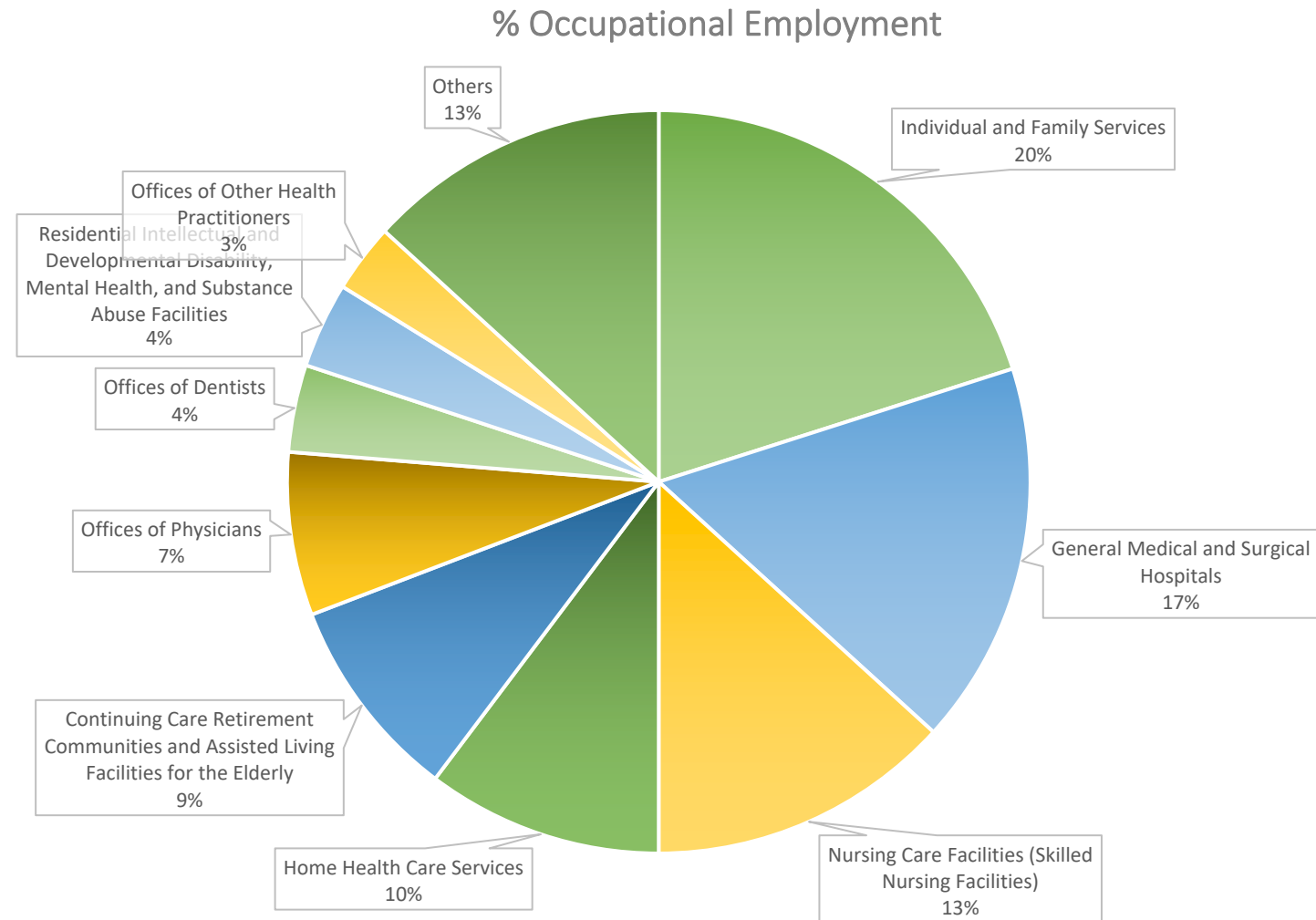
Source: JobsEQ, Data as of 2022Q1.

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

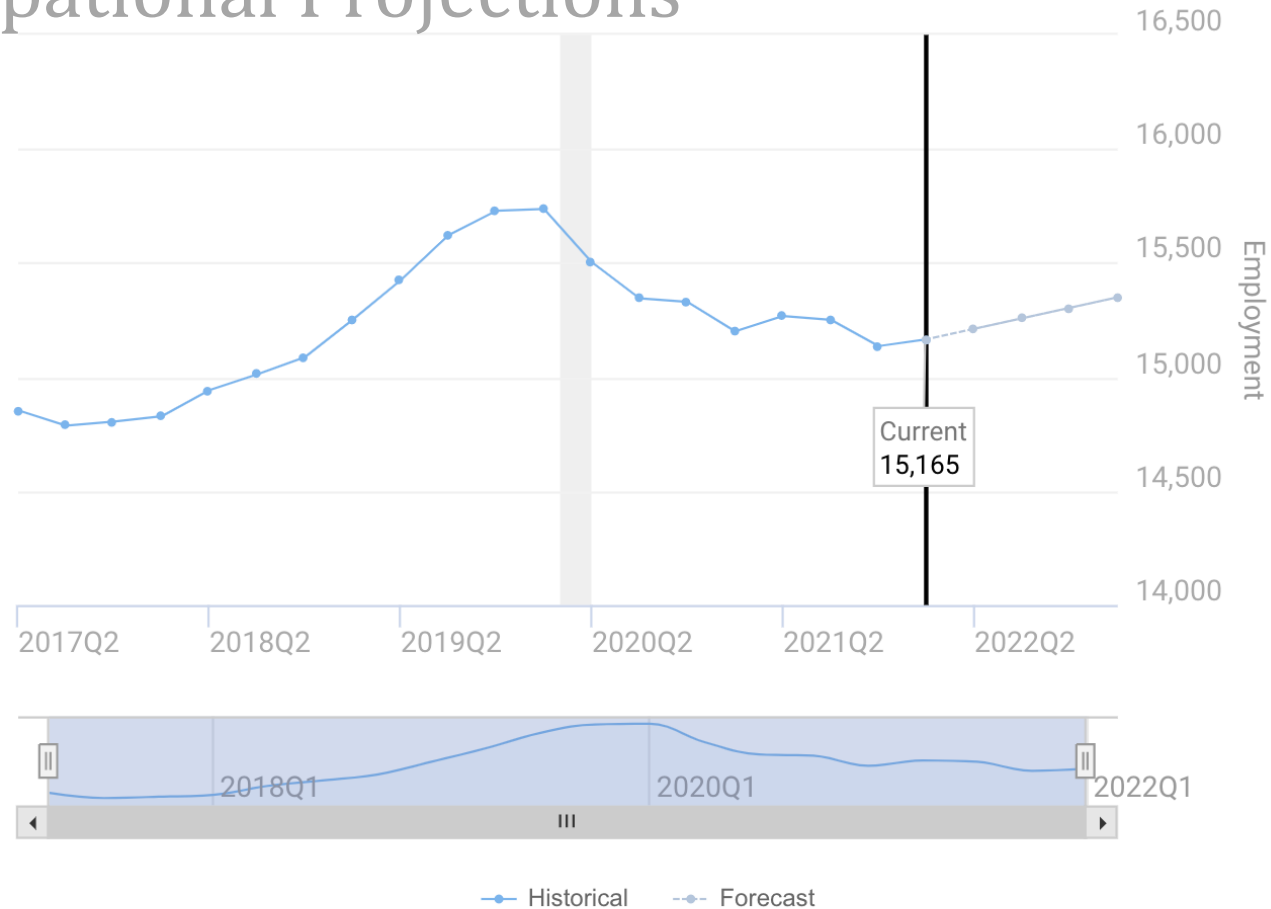
Health Support Occupations

Employment by Industry



Health Support Occupations

Occupational Projections



Employed	15,165
5-Year Empl Change	151
5-Year Ann % Change	0.2%
1-Year Demand	2,166
1-Year Exits (left occupation)	965
1-Year Transfers (new job)	1,017
1-Year Net Growth	184
1-Year Ann % Growth	1.2%
Online Job Ads (last 30 days)	1,095

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

- 1-year projected growth almost **1.1%** more than all other occupations (0.1%)
- Job ads represent about **7.2%** of currently employed in occupation

Health Support Occupations

Employer Demand in Last 12 Months

Occupation	Ave Mean Wages	Mean Wages "n"	LQ	Annual Demand
Personal Care Aides	\$23,500	4,789	0.82	819
Nursing Assistants	\$28,800	4,471	1.55	540
Home Health Aides	\$23,500	1,688	0.82	240
Medical Assistants	\$33,400	1,520	0.93	195
Dental Assistants	\$38,400	617	0.79	75
Veterinary Assistants and Laboratory Animal Caretakers	\$27,100	382	1.67	66
Phlebotomists	\$33,600	329	1.09	43
Physical Therapist Assistants	\$63,000	262	1.26	39
Massage Therapists	\$42,000	245	0.77	35
Medical Equipment Preparers	\$33,800	195	1.41	23
Remaining Component Occupations	\$37,100	667	0.95	85
Healthcare Support Occupations	\$28,700	15,165	0.99	2,166

Top requested occupational certifications: Certified Nursing Assistance, Basic Life Support, National Phlebotomy Association Certified Phlebotomist, Certified Dental Assistant, Registered Nurse, Certified Home Health Aide, State Tested Nursing Assistant, Nationally Certified Medical Assistant, Medical-Surgical Nursing, Medication Aide Certification

Top requested hard skills: Medication Administration, Home Health Care, Teaching/Training, Patient Care, Medical Terminology, Personal Computers, Data Entry, Microsoft Excel, Geriatric, Physiology

Health Support Occupations

Wages

Occupation	Mean	Median	Entry Level	Experienced
Occupational Therapy Assistants	\$64,000	\$64,100	\$45,000	\$73,400
Physical Therapist Assistants	\$63,000	\$62,300	\$50,700	\$69,200
Massage Therapists	\$42,000	\$37,500	\$24,300	\$50,800
Healthcare Support Workers, All Other	\$40,100	\$37,600	\$28,900	\$45,800
Dental Assistants	\$38,400	\$36,500	\$29,200	\$43,000
Medical Transcriptionists	\$35,400	\$31,700	\$21,700	\$42,300
Medical Equipment Preparers	\$33,800	\$33,800	\$27,300	\$37,000
Phlebotomists	\$33,600	\$34,100	\$28,100	\$36,300
Occupational Therapy Aides	\$33,400	\$28,500	\$23,800	\$38,300
Medical Assistants	\$33,400	\$32,100	\$28,600	\$35,800

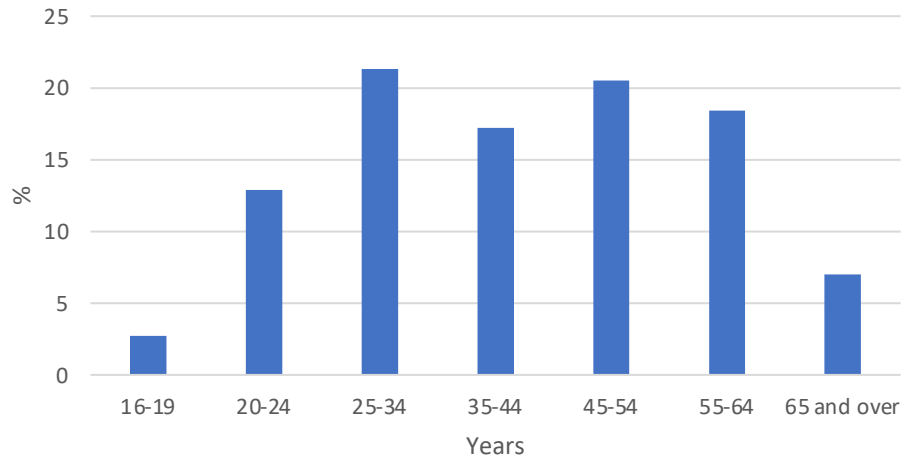
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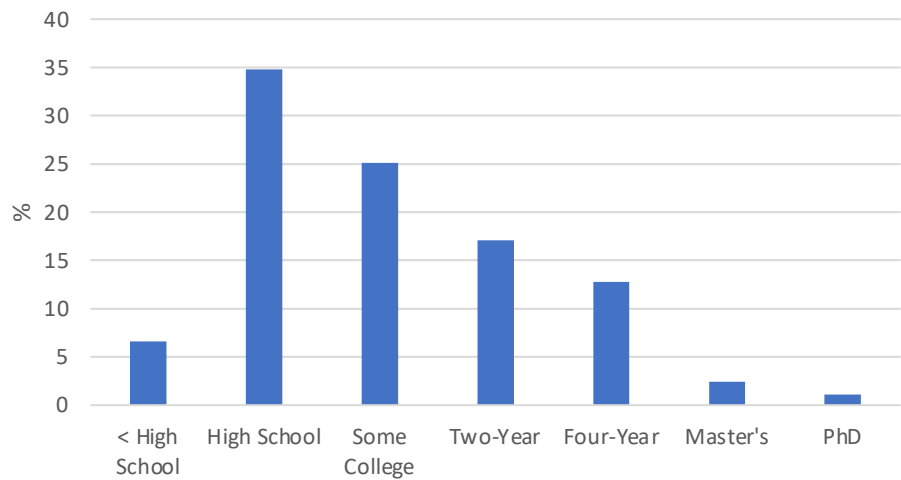
Health Support Occupations

Demographic Characteristics

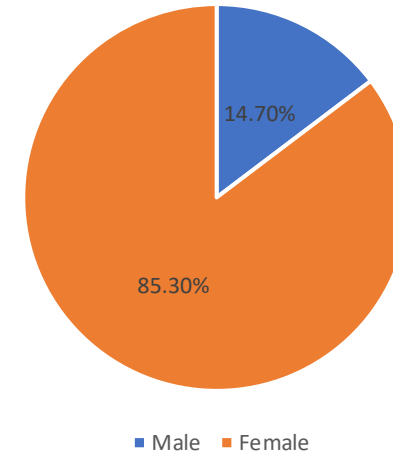
Age Distribution



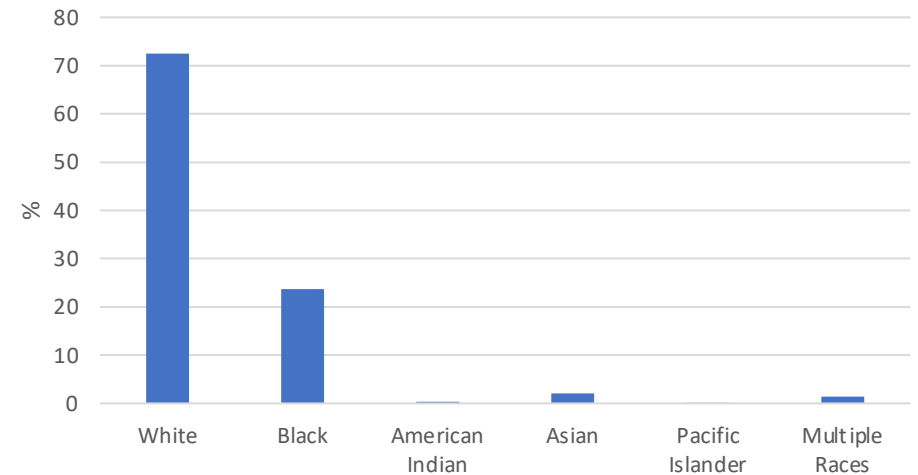
Educational Attainment



Gender Distribution



Race Distribution



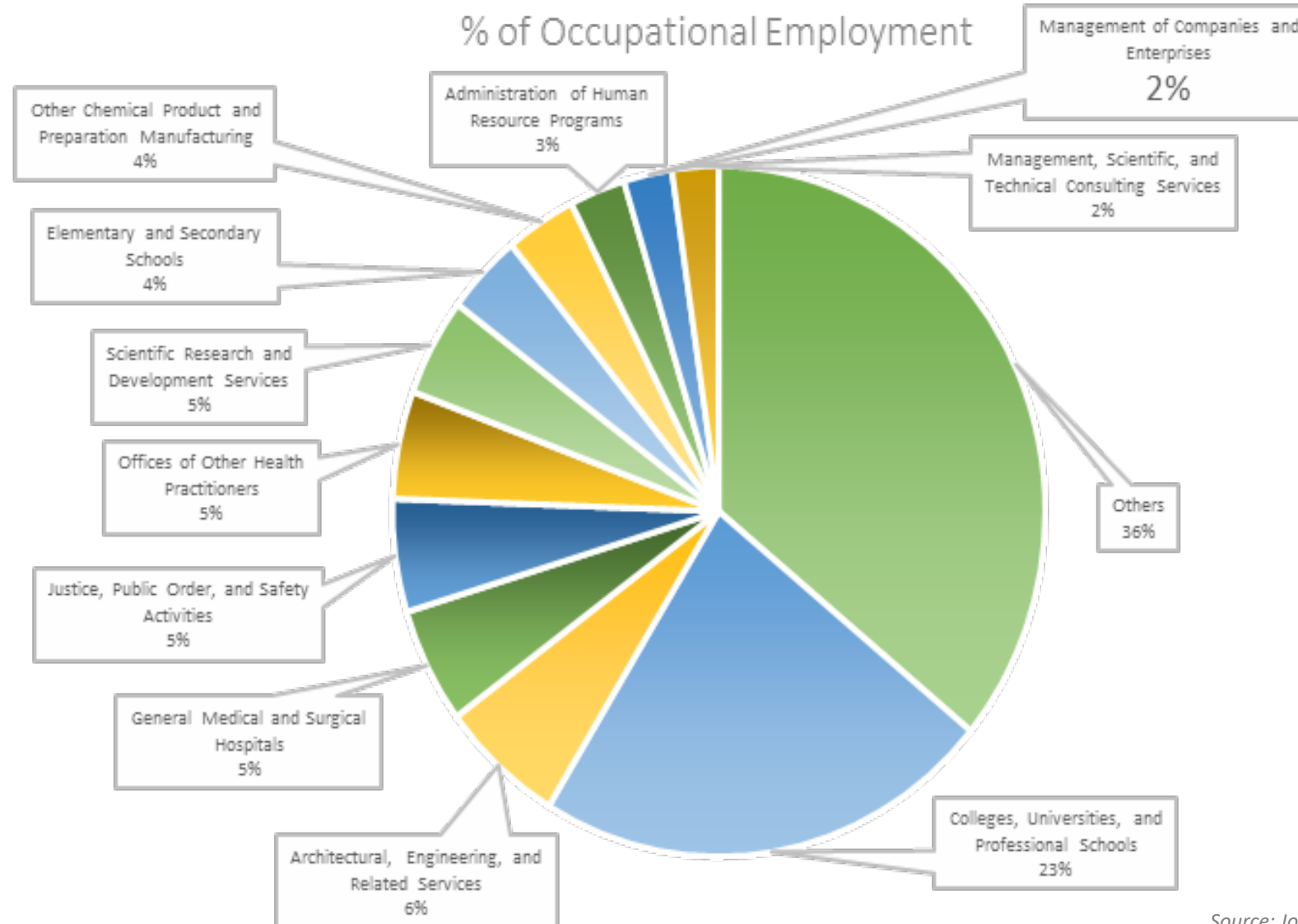
Source: JobsEQ, Data as of 2022Q1.

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

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

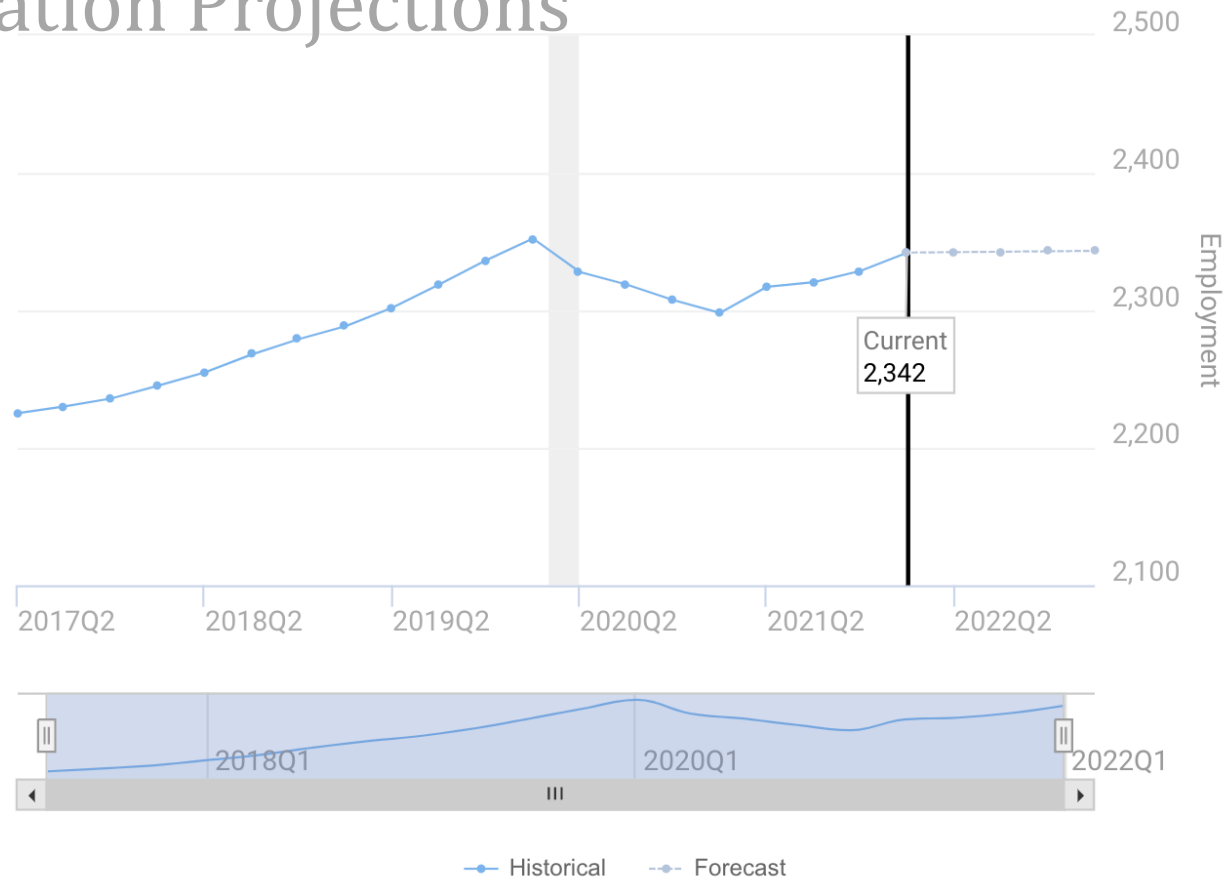
Life, Physical, & Social Sciences

Employment by Industry



Life, Physical, & Social Sciences

Occupation Projections



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

Employed	2,342
5-Year Empl Change	122
5-Year Ann % Change	1.1%
1-Year Demand	208
1-Year Exits (left occupation)	50
1-Year Transfers (new job)	157
1-Year Net Growth	1
1-Year Ann % Growth	0.1%
Online Job Ads (last 30 days)	290

- 1-year projected growth **equal to** all other occupations (0.1%)
- Job ads represent about **12%** 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
Occupational Health and Safety Specialists	\$67,100	250	1.06	17
Medical Scientists, Except Epidemiologists	\$90,300	202	0.80	16
Chemists	\$77,000	150	0.84	14
Clinical and Counseling Psychologists	\$94,100	130	0.93	9
Environmental Scientists and Specialists, Including Health	\$70,500	120	0.71	11
Biological Technicians	\$45,500	113	0.65	14
Social Scientists and Related Workers, All Other	\$100,000	111	1.37	10
Chemical Technicians	\$45,900	107	0.81	11
Life, Physical, and Social Science Technicians, All Other	\$47,900	106	0.74	13
School Psychologists	\$75,900	100	0.76	7
Remaining Component Occupations	\$72,600	955	0.72	87

Top requested occupational certifications: Certified Safety Professional, Secret Clearance, Certification in Cardiopulmonary Resuscitation, Certified Arborist, First Aid Certification, Basic Life Support, Medical Physics, Certified Industrial Hygienist, Licensed Clinical Social Worker, Certified Hazardous Materials Manager

Top requested hard skills: Microsoft Office, Microsoft Excel, Manufacturing, Microsoft Word, Teaching/Training Job, Microsoft PowerPoint, Data Analysis, Microsoft Outlook, Presentation

Life, Physical, & Social Sciences

Wages

Occupation	Mean	Median	Entry Level	Experienced
Astronomers	\$126,900	\$117,500	\$64,900	\$157,900
Political Scientists	\$122,600	\$134,900	\$84,400	\$141,700
Physical Scientists, All Other	\$120,900	\$120,200	\$81,200	\$140,700
Biochemists and Biophysicists	\$112,500	\$111,600	\$77,300	\$130,100
Physicists	\$111,500	\$112,700	\$74,300	\$130,100
Atmospheric and Space Scientists	\$107,100	\$99,100	\$68,200	\$126,600
Economists	\$103,400	\$96,300	\$60,600	\$124,800
Social Scientists and Related Workers, All Other	\$100,000	\$101,200	\$67,200	\$116,400
Clinical and Counseling Psychologists	\$94,100	\$77,300	\$52,400	\$114,900
Industrial-Organizational Psychologists	\$93,300	\$74,100	\$58,700	\$110,600

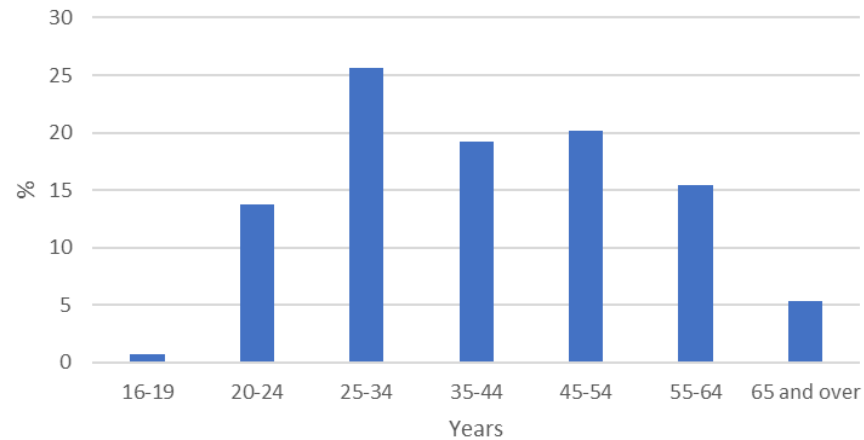
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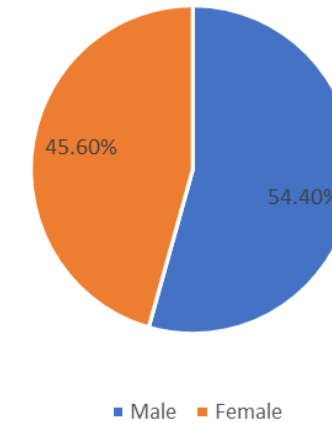
Life, Physical, & Social Sciences

Demographic Characteristics

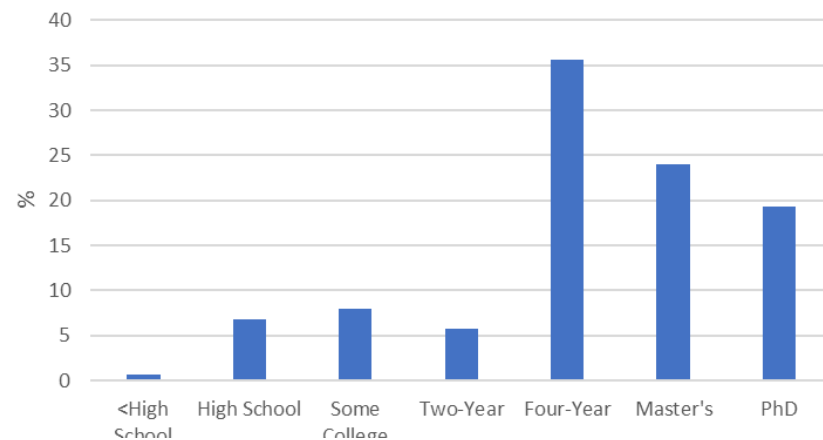
Age Distribution



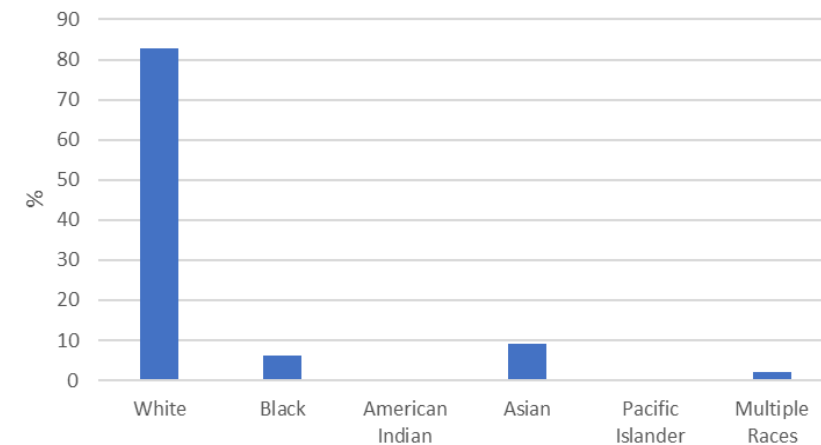
Gender Distribution



Education Attainment



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 Communications	Health & Medical Sciences Exploratory	Health Assistant I	Health Assistant II	Health Assistant II (Psychiatric Aide)	Health Assisting Careers	Intro to Health & Medical Sciences	Intro to Nutrition for Health & Medical Sciences	Mechatronics I	Mechatronics II	Medical Assistant II	Medical Systems Administration	Medical Terminology	Mental Health Assisting Careers	Nurse Aide I	Nurse Aide II	Pharmacy Technician I	Pharmacy Technician II	Practical Nursing II	Sports Medicine I	Sports Medicine II
2019	# Courses		1							3							1			1					
2019	# Students		7							32							1			8					
2018	# Courses		1	2		1	1			8		6	1	1			4	1	1	8				4	1
2018	# Students		10	19		8	14			189		86	10	5			26	12	30	131				21	6
2017	# Courses				1	1				7		7				1	5	1	2	7	1			3	2
2017	# Students				9	2				72		95				3	79	10	2	142	2			19	6
2016	# Courses		1	3	1					5	7	1				1	4	1	2	6				2	2
2016	# Students		22	41	4					122	121	1				1	47	15	7	139				18	5
2015	# Courses		1	1	1					5	6					1	4	1	4	8				3	2
2015	# Students		9	8	2					124	80					2	49	12	24	138				21	4
2014	# Courses			2	1					4	7					1	4	1	2	9		1		2	2
2014	# Students			24	2					151	121					1	74	18	33	167		4		12	6
2013	# Courses	1		3	1					4	3					2	2	1	4	7			1	2	2
2013	# Students	14		26	1					155	13					8	57	12	57	115			2	11	18
2012	# Courses		1	2						3						1	1	1	2	6					
2012	# Students		10	17						54						2	25	13	57	85					
2011	# Courses		1	1	1		2		1							1	1		2	8					1
2011	# Students		20	15	15		115		42							4	5		46	102					5
2010	# Courses		1	3	2		3										3		2	7					1
2010	# Students		14	25	11		114										19		44	92					8
2009	# Courses		1	2			4	2								1	1		1	5					1
2009	# Students		16	24			53	27								4	6		18	64					6
2008	# Courses		1	3			5	1									1			5					
2008	# Students		13	37			83	4									6			55					

Registered Nursing Programs

Schools	Certs & 2yr Awards	4yr Awards	Post-Grad Awards	Avg Net Price
Liberty University		369	2	\$28,762
Radford University		227		\$15,747
Central Virginia Community College	145			\$5,281
Centra College	103	16		\$30,040
New River Community College	57			\$6,742
Virginia Western Community College	55			\$6,453
University of Lynchburg		47		\$24,386
Dabney S Lancaster Community College	38			\$5,545
American National University		5		\$21,638
Ferrum College				\$23,344

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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