

Center for Health Workforce

Virginia Health Workforce Analysis

GO Virginia Region 1

September, 2022

Purpose

Provide a regional workforce analysis on health and human services related occupations in **GO Virginia Region 1**, 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

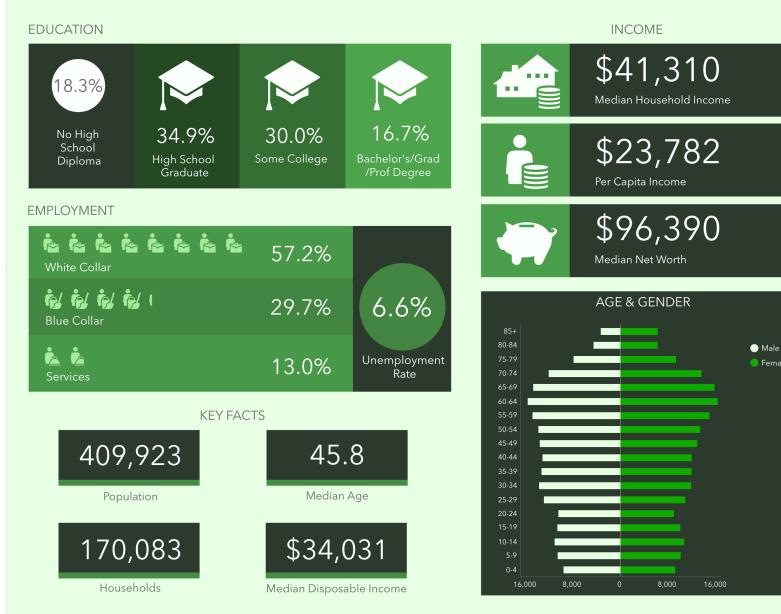
Lee

Wythe

Workforce Development Area (WDA) Region	WDA Region
Southwestern Virginia	1
New River/Mt. Rogers	2

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Regional Demographic Profile



Between 18-32% of each county population has HS diploma

> **2 of 16** counties have approximately 10% of a population with an education less than HS

Median age between 42 and 48.1 years old

Median HH income is **BELOW** Virginia median (\$74,222) in 16 of **16** counties

Median HH income ranges from \$32,532 and \$56,678

-

🔵 Female

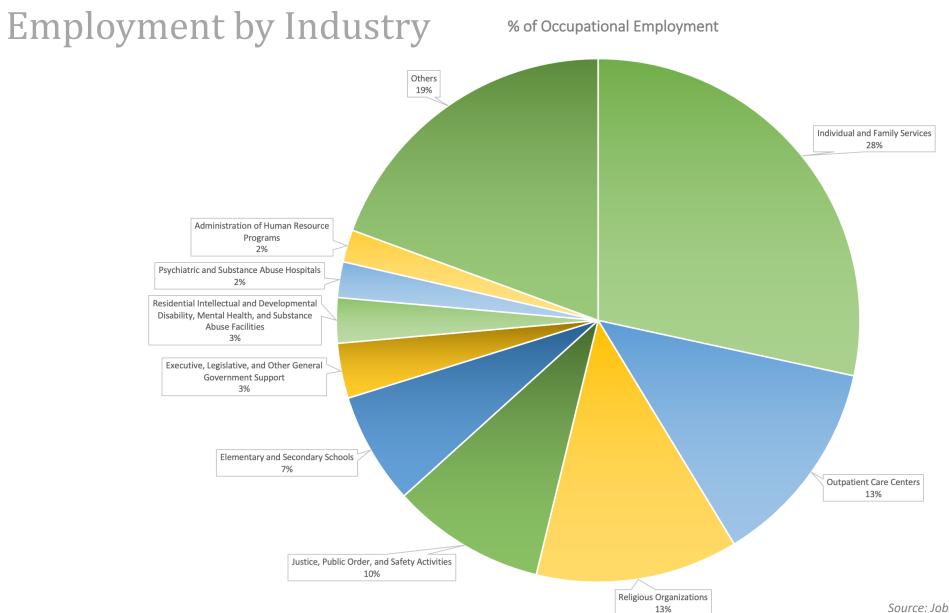
Major Occupation Groups

- 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

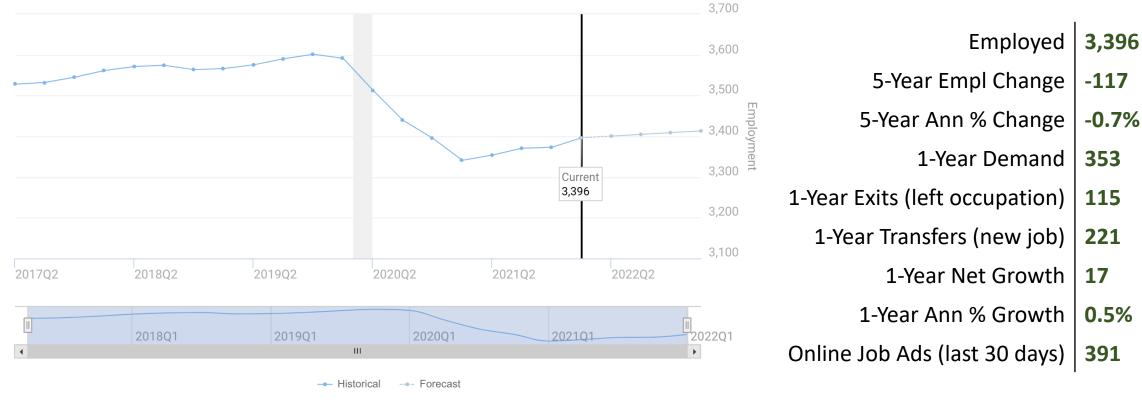
Community & Social Service Specialists



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

Community & Social Service Specialists





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

- 1-year projected growth almost 1.2% more than all other occupations (-0.7%)
- Job ads represent about 12% of currently employed in occupation

Community & Social Service Specialists Employer Demand in Last 12 Months

	Avg Mean	Mean Wages		Annual
Occupation	Wages	"n"	LQ	Demand
Substance Abuse, Behavioral Disorder, and Mental Health Counselors	\$46,200	655	2.22	73
Social and Human Service Assistants	\$30,400	549	1.57	70
Child, Family, and School Social Workers	\$43,500	516	1.80	51
Educational, Guidance, and Career Counselors and Advisors	\$55 <i>,</i> 900	246	0.96	21
Mental Health and Substance Abuse Social Workers	\$44,300	210	2.12	20
Clergy	\$42,500	210	0.96	19
Probation Officers and Correctional Treatment Specialists	\$40,300	187	2.49	12
Directors, Religious Activities and Education	\$43,600	171	1.24	18
Healthcare Social Workers	\$45,300	151	1.00	14
Rehabilitation Counselors	\$41,600	127	1.65	12
Remaining Component Occupations	\$43,700	376	0.90	39

Top requested occupational certifications: Licensed Clinical Social Worker, Licensed Practical Nurse, Certified Rehabilitation Counselor, Board Certified Behavior Analyst, Basic Life Support, Board Certified Assistant Behavior Analyst, Registered Nurse, Certified Lactation Consultant, Certified Nursing Assistant, AED Essentials

Top requested hard skills: Microsoft Office, Mental Health, Personal Computers, Report Writing/Report Preparation, Electronic Health Record, Working with Children, Microsoft Excel, Bilingual, Microsoft Outlook, Presentation

Community & Social Service Specialists

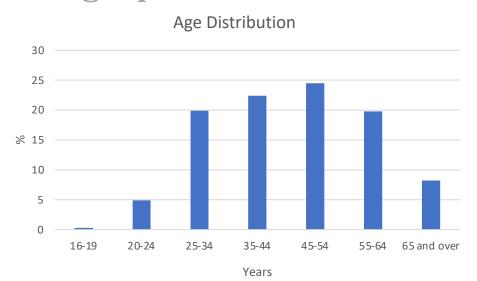
Wages

Occupation	Mean	Median	Entry Level	Experienced
Social Workers, All Other	\$56,600	\$59,400	\$38,800	\$65 <i>,</i> 500
Health Education Specialists	\$56 <i>,</i> 500	\$51,800	\$35,800	\$66,900
Educational, Guidance, and Career Counselors and Advisors	\$55 <i>,</i> 900	\$56 <i>,</i> 500	\$41,300	\$63,100
Community and Social Service Specialists, All Other	\$47,400	\$47,000	\$35,400	\$53 <i>,</i> 300
Substance Abuse, Behavioral Disorder, and Mental Health Counselors	\$46,200	\$44,900	\$34,200	\$52,300
Healthcare Social Workers	\$45 <i>,</i> 300	\$45,500	\$31,900	\$51,900
Mental Health and Substance Abuse Social Workers	\$44,300	\$39,400	\$32,100	\$50,400
Directors, Religious Activities and Education	\$43,600	\$39,000	\$27,000	\$51,900
Child, Family, and School Social Workers	\$43,500	\$39,600	\$32,800	\$48,900
Marriage and Family Therapists	\$43,300	\$39,800	\$32,100	\$48,900

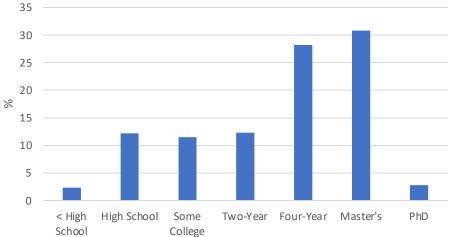
Virginia Minimum Wage 2022 is \$11 per hour or \$22,880 annually (2,080 hours worked) Living wage for 1 adult 0 children \$19.40 per hour or \$40,352 annually (2,080 hours worked)

Community & Social Service Specialists

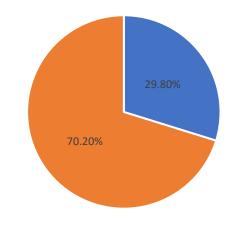
Demographic Characteristics





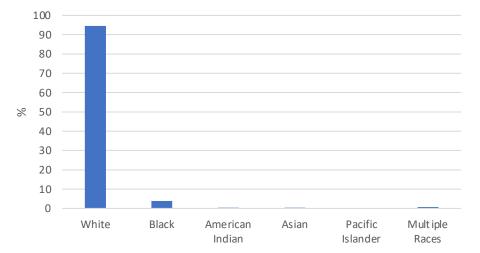


Gender Distribution



Male Female

Race Distribution

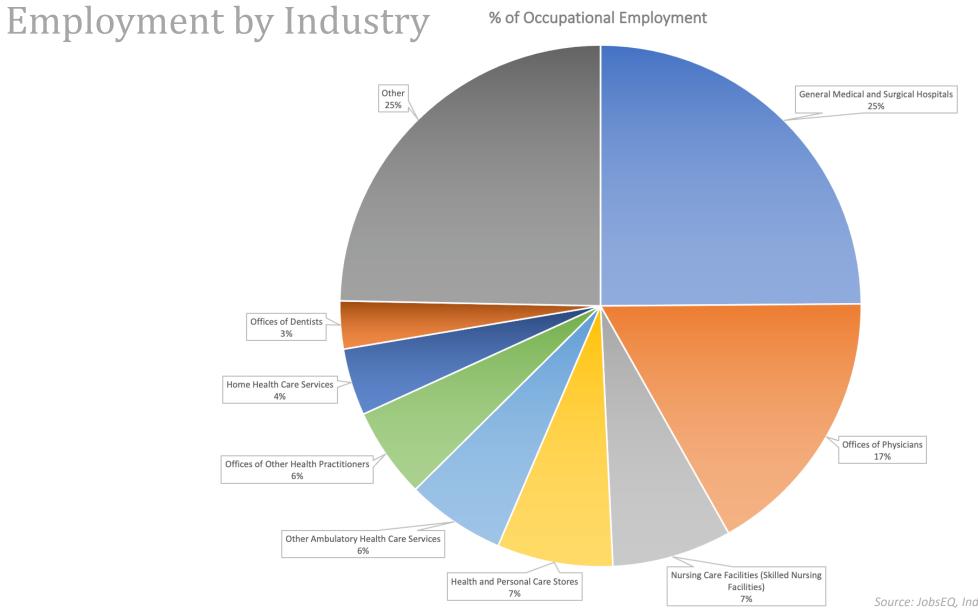


Source: JobsEQ, Data as of 2022Q1.

Healthcare Practitioners & Technical Occupations (SOC 29-0000)

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

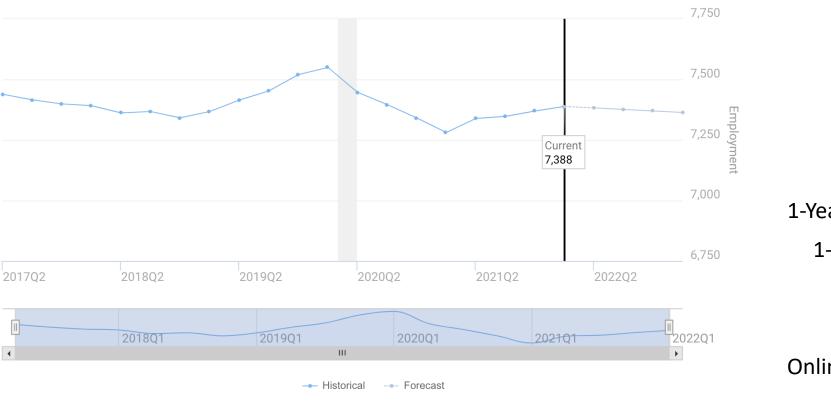
Healthcare Practitioner & Technical Specialists



Supply/Demand

Healthcare Practitioner & Technical Specialists





5-Year Empl Change-495-Year Ann % Change-0.1%1-Year Demand3811-Year Exits (left occupation)1811-Year Transfers (new job)2261-Year Net Growth-26

Employed

7,388

- 1-Year Ann % Growth -0.4%
- Online Job Ads (last 30 days) 1,904
- 1-year projected growth almost 0.3% more than all other occupations (-0.7%)

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

Job ads represent about 25% of currently employed in occupation

Healthcare Practitioner & Technical Specialists Employer Demand in Last 12 Months

Occupation	Avg Mean Wages	Mean Wages "n"	LQ	Annual Demand
Registered Nurses	\$61,100	2,023	0.78	93
Licensed Practical and Licensed Vocational Nurses	\$42,600	714	1.33	49
Pharmacy Technicians	\$30,700	535	1.44	28
Emergency Medical Technicians	\$32,100	372	2.74	24
Pharmacists	\$121,300	334	1.23	4
Physical Therapists	\$88,100	229	1.11	12
Nurse Practitioners	\$108,100	200	0.97	17
Physicians, All Other	\$154,600	189	0.81	4
Paramedics	\$41,700	160	2.03	10
Psychiatric Technicians	\$27,100	146	1.85	10
Remaining Component Occupations	\$94,900	2,486	0.86	127
Healthcare Practitioners and Technical Occupations	\$73,200	7,388	0.96	381

Top requested occupational certifications: Basic Life Support, Registered Nurse, Pediatric Advanced Life Support, Certified Pharmacy Technician, The American Registry of Radiologic Technologists Certification, Emergency Medical Technician, Certified Nursing Assistant, Medical Technologist, Certified Six Sigma Yellow Belt, Registered Dietitian

Top requested hard skills: Nursing, Home Health Care, Medication Administration, Long-Term Care, Pediatrics, Cash Registers, Epic Systems, Intensive Care Unit, Electronic Health Record, JavaScript

Healthcare Practitioner & Technical Specialists Wages

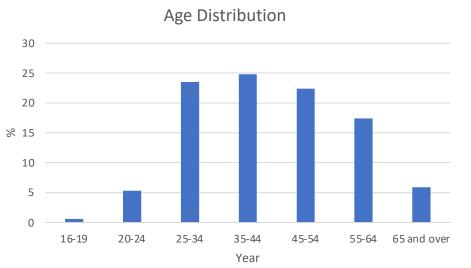
Occupation	Mean	Median	Entry Level	Experienced
Cardiologists	\$299,200	\$282,000	\$181,200	\$358,200
Emergency Medicine Physicians	\$282,600	\$241,800	\$141,700	\$353,000
Radiologists	\$263,800	\$185,600	\$107,800	\$341,900
Orthodontists	\$257,700	\$201,300	\$119,200	\$326,900
Dermatologists	\$251,100	\$181,400	\$114,000	\$319,600
Ophthalmologists, Except Pediatric	\$250,400	\$195,700	\$123,500	\$313,900
Anesthesiologists	\$246,400	\$200,700	\$128,300	\$305,400
Oral and Maxillofacial Surgeons	\$242,200	\$199,500	\$113,600	\$306,500
Pediatric Surgeons	\$236,500	\$180,800	\$113,300	\$298,100
Obstetricians and Gynecologists	\$232,800	\$201,300	\$122,400	\$288,000

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)

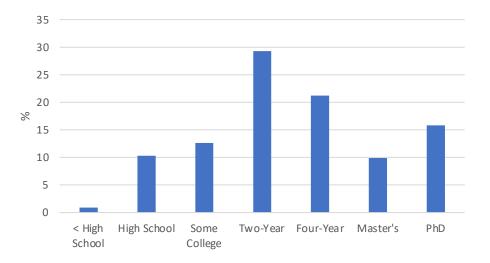
Workforce Supply

Healthcare Practitioner & Technical Specialists

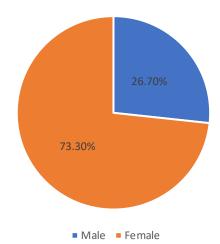
Demographic Characteristics



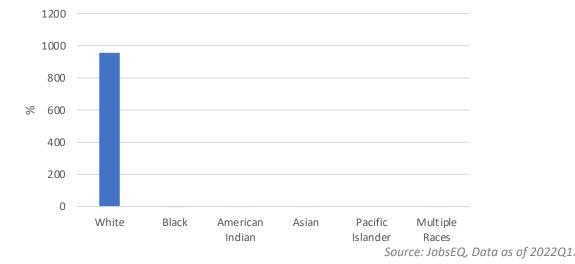
Educational Attainment



Gender Distribution

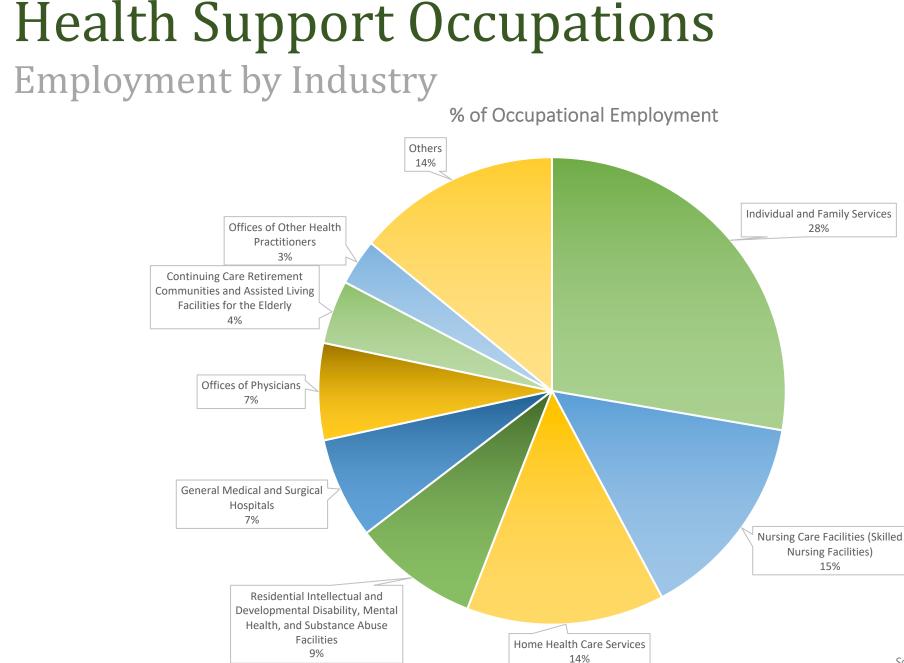






Health Support Occupations (SOC 31-000)

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

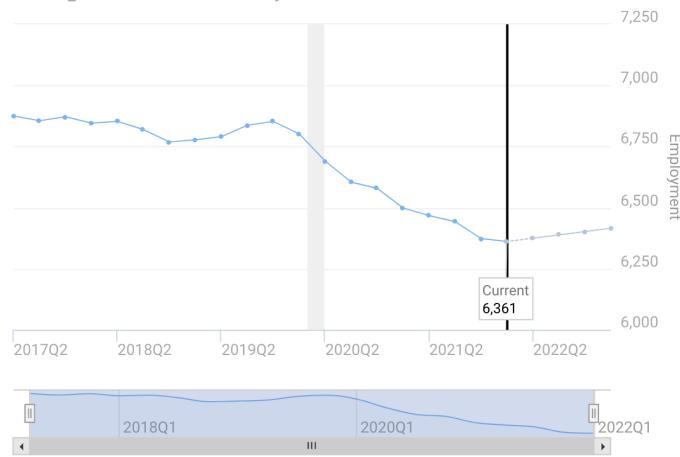


Source: JobsEQ, Industry Snapshot. Data as of 2022Q1.

Supply/Demand

Health Support Occupations

Occupational Projections



Employed 6,361

20

- 5-Year Empl Change -565
- 5-Year Ann % Change -1.7%
 - 1-Year Demand 881
- 1-Year Exits (left occupation) 409
 - 1-Year Transfers (new job) **418**
 - 1-Year Net Growth 54
 - 1-Year Ann % Growth 0.8%
- Online Job Ads (last 30 days) **261**

- 1-year projected growth almost 1.5% more than all other occupations (-0.7%)
- Job ads represent about 4.1% 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	\$22,600	2,556	1.15	417
Nursing Assistants	\$27,400	1,496	1.35	165
Home Health Aides	\$22,600	903	1.15	122
Medical Assistants	\$31,300	503	0.80	60
Dental Assistants	\$35,400	195	0.65	22
Physical Therapist Assistants	\$58,400	108	1.36	16
Veterinary Assistants and Laboratory Animal Caretakers	\$26,600	98	1.12	16
Phlebotomists	\$29,700	74	0.64	9
Medical Transcriptionists	\$30,600	73	1.52	9
Massage Therapists	\$41,900	67	0.55	9
Remaining Component Occupations	\$35,000	288	1.07	35
Healthcare Support Occupations	\$26,400	6,361	1.09	881

Top requested occupational certifications: Certified Nursing Assistance, Medical Assistant Certification, National Phlebotomy Association Certified Phlebotomist, Nationally Certified Medical Assistance, Registered Dental Assistant, Certified Dental Assistant, Medical-Surgical Nursing, Certified Home Health Aide, First Aid Certification, Certified Registered Central Service Technician

Top requested hard skills: Medica Administration, Caregiving, Patient Care, Medical Terminology, Electrocardiogram, Microsoft Office, Long-Term Care, Geriatric, Electronic Health Record, Massage Therapy

Health Support Occupations Wages

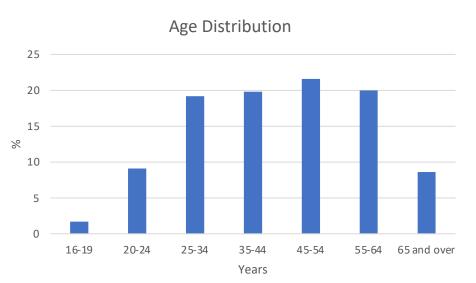
Occupation	Mean	Median	Entry Level	Experienced
Occupational Therapy Assistants	\$61,100	\$60,500	\$45,500	\$68,900
Physical Therapist Assistants	\$58,400	\$59,400	\$40,300	\$67,400
Massage Therapists	\$41,900	\$40,700	\$24,300	\$50,800
Healthcare Support Workers, All Other	\$37,200	\$33,800	\$27,100	\$42,200
Dental Assistants	\$35,400	\$35,900	\$27,900	\$39,100
Medical Equipment Preparers	\$32,400	\$32,000	\$25,900	\$35,700
Occupational Therapy Aides	\$32,300	\$27,600	\$22,800	\$37,000
Medical Assistants	\$31,300	\$30,100	\$25,600	\$34,100
Psychiatric Aides	\$30,900	\$27,600	\$25,800	\$33,500
Medical Transcriptionists	\$30,600	\$26,100	\$21,300	\$35,200

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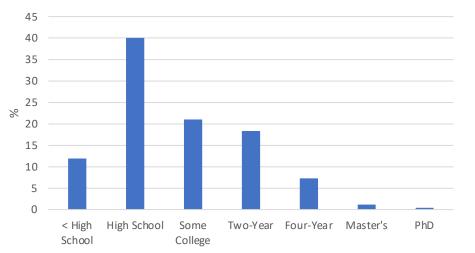
Source: JobsEQ, wages are derived from BLS OES data, are as of 2021, and represent the average for all Covered Employment. Entry-level and experienced wages are derived from these source data, computed by Chmura.

Health Support Occupations

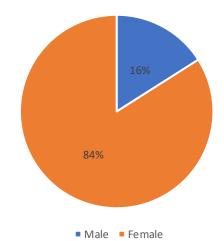
Demographic Characteristics



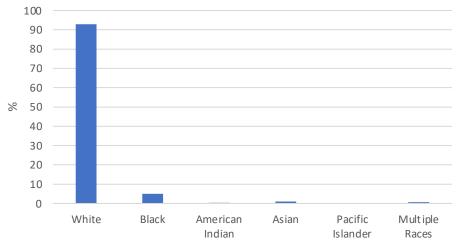




Gender Distribution



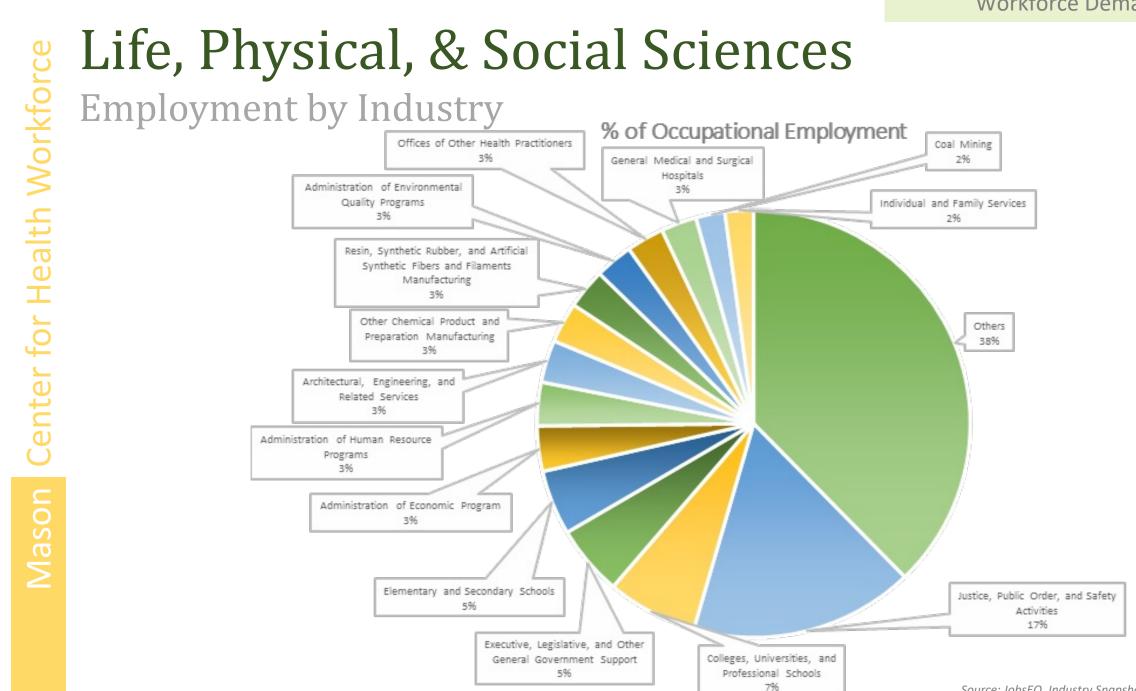




Source: JobsEQ, Data as of 2022Q1.

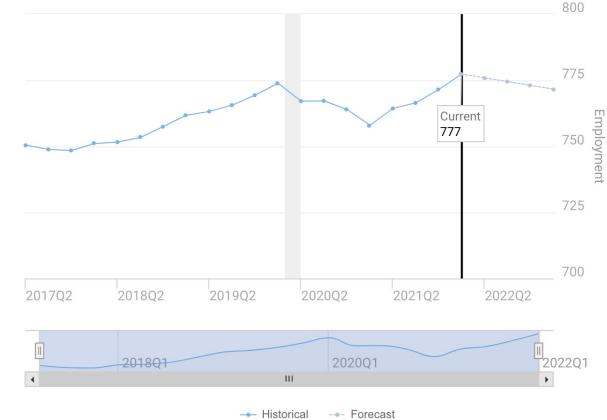
Life, Physical, and Social Sciences Occupations (SOC 19-0000)

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



Life, Physical, & Social Sciences

Occupation Projections



Source: JobsEO®.Data as of 202201.The shaded areas of the graph represent national recessions.

- 1-year projected growth equal to all other occupations (-0.7%)
- Job ads represent about 6% of currently employed in occupation

- Employed 777 5-Year Empl Change 29
- 5-Year Ann % Change 0.8%
 - 1-Year Demand 60
- 1-Year Exits (left occupation) **16**
 - 1-Year Transfers (new job) **49**
 - 1-Year Net Growth -6
 - 1-Year Ann % Growth -0.7%
- Online Job Ads (last 30 days) 42

Supply/Demand

26

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	\$71,900	104	1.15	6
Environmental Scientists and Specialists, Including Health	\$77,800	59	0.92	5
Clinical and Counseling Psychologists	\$92,500	52	0.97	3
Urban and Regional Planners	\$75 <i>,</i> 800	42	1.32	3
School Psychologists	\$82,200	41	0.81	2
Chemists	\$88,100	40	0.60	3
Social Scientists and Related Workers, All Other	\$104,300	33	1.07	2
Chemical Technicians	\$49,500	33	0.66	3
Medical Scientists Except Epidemiologists	\$102,300	31	0.33	2
Forensic Science Technicians	\$62,200	26	1.92	3
Remaining Component Occupations	\$74,300	314	0.63	22

Top requested occupational certifications: Certified Safety Professional, Certified Arborist, Secret Clearance, Certified Industrial Hygienist, Certification in Cardiopulmonary Resuscitation, First Aid Certification, Certified Safety and Health Manager

Top requested hard skills: Microsoft Excel, Microsoft Office, Microsoft Word, Mathematics, Manufacturing, Java Script, Occupational Safety and Health Administration Regulations, Microsoft Outlook, Microsoft PowerPoint, Internal Auditing

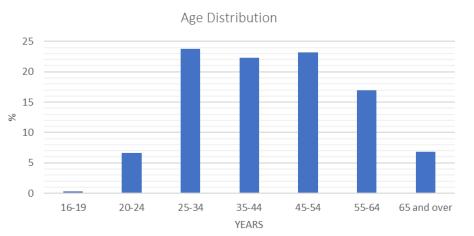
Life, Physical, & Social Sciences

Wages

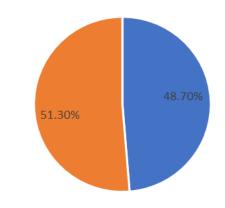
Occupation	Mean	Median	Entry Level	Experienced
Astronomers	\$136,400	\$125,300	\$66,800	\$171,200
Political Scientists	\$127,500	\$135,900	\$77,600	\$152,400
Physicists	\$126,800	\$126,800	\$79,700	\$150,400
Physical Scientists, All Other	\$125,300	\$123,400	\$75,700	\$150,200
Biochemists and Biophysicists	\$118,100	\$113,400	\$72,900	\$140,700
Economists	\$114,500	\$104,500	\$64,600	\$139,500
Atmospheric and Space Scientists	\$105,200	\$98,000	\$61,700	\$127,000
Social Scientists and Related Workers, All Other	\$104,300	\$103,800	\$64,300	\$124,400
Industrial-Organizational Psychologists	\$103,900	\$90,200	\$63,200	\$124,200
Medical Scientists, Except Epidemiologists	\$102,300	\$82,800	\$51,500	\$127,700

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Life, Physical, & Social Sciences Demographic Characteristics

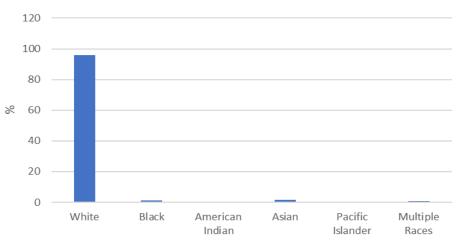


Gender Distribution

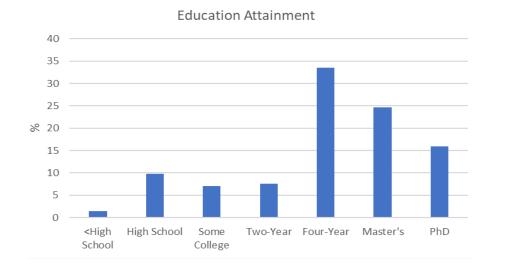








Center for Health Workforce Mason



Source: JobsEQ, Data as of 2022Q1.

Health Workforce Supply

Inventory of Health Science Program Offerings

CTE Programs in Health Sciences

Sch	ool Year	Dental Assistant I	Dental Assistant I	Emergency Medical I Technician I	Emergency Medical Technician II	Health Assisting Careers	Intro to Nutrition for Health & Medical Sciences	Medical Systems Administra tion	Nurse Aide I	Nurse Aide II		Pharmacy Technician II	Practical Nursing I	Practical Nursing II	Practical Nursing III	Sports Medicine II	Surgical Technologi st I
	# Courses									1							
2019	# Students									10							
	# Courses	1	1	1 1	_				4	7	1	2	3	1			
2018	# Students	8	2	2 2	2				112	98	9	32	31	9			
	# Courses	1	1	1			1		5	6		2	2				
2017	# Students	13	2	2			1		74		23	26	8				
	# Courses				1			1	3	7	1	1		3			
2016	# Students				6			2				15		54			
	# Courses				1			1	3	5	1	1	1	2			
2015	# Students				3			1	17				1	24			
	# Courses		1	1 1		1		1	3		1	1	1	2			
2014	# Students		3	3 7		2		2				13	1	28			
	# Courses			1	1			1	4			1		3			
2013	# Students			6	11			5			9			34			
2012	# Courses								3	5	1	1		1			
2012	# Students							1	58			10	1	2	1		1
2011	# Courses							1 15	-	6 80	1	1	1	2	1		
2011	# Students # Courses							15		80	9	11	10 3		3	1	3
2010	# Courses # Students							10		71		2	25			5	
2010	# Courses							2		4		2	25	4		5	
2009	# Courses # Students							46	_			9		22			
2005	# Courses			2				40		6	1	9	2	22			
2008	# Courses # Students			10				17		104	_	11	9				

More information is available at https://mygmu.maps.arcgis.com/apps/dashboards/ed9c59395a3b49749b8d27c1b88f47cc

Health Workforce Supply

Registered Nursing Programs

Schools	Certs & 2yr Awards	4yr Awards	Post-Grad Awards	Avg Net Price
Virginia Highlands Community College	76			\$6,406
Mountain Empire Community College	62			\$5 <i>,</i> 805
Southwest Virginia Community College	62			\$7,377
Wytheville Community College	42			\$3,107
The University of Virginia's College at Wise		22		\$9,418
Total	242	22	0	

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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https://vahlthwf.gmu.edu/