

# AGRICULTURE, FOOD & NATURAL RESOURCES

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Animal Caretakers	\$23,463	301
High School		Farmworkers & Greenhouse Workers	\$25,310	136
		Refuse & Recyclable Material Collectors	\$28,674	73
		Landscaping & Groundskeeping Workers	\$29,126	806
		Animal Trainers	\$30,200	23
		Pest Control Workers	\$38,471	71
2-Year College	Associate's Degree	Wind Energy Operations Managers Geothermal Production Managers	\$87,316 \$117,218	298 36
4-Year College	Bachelor's Degree	Recreation Workers Environmental Science Technicians Environmental Scientists Landscaping & Groundskeeping Supervisors	\$28,633 \$43,110 \$67,418 \$45,936	198 32 71 107
Graduate School	Graduate Degree	Biology Science Teachers (college-level) Environmental Engineer	\$66,859 \$88,997	783 9

# ARCHITECTURE & CONSTRUCTION

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School ↓ High School	On-the-Job Training	Helpers for Electricians	\$30,734	101
		Painters, Construction & Maintenance	\$35,814	155
		Carpenters	\$42,497	408
		Plumbers, Pipefitters and Steamfitters	\$48,173	285
High School ↓ 2-Year College	Certification	Brick mason	\$48,528	53
		Construction & Building Inspectors	\$60,106	84
		Supervisors of Construction Workers	\$62,066	450
		Maintenance & Repair Workers	\$38,930	628
2-Year College ↓ 4-Year College	Associate's Degree	HVAC Installers & Mechanics	\$48,408	250
		Electricians	\$49,967	496
		Surveying & Mapping Technicians	\$47,663	52
		Mechanical Drafters	\$50,683	13
4-Year College	Bachelor's Degree	Electrical & Electronics Drafters	\$61,005	5
		Interior Designers	\$47,418	45
		Architects	\$78,916	50
		Civil Engineers	\$81,463	164

# Arts, Audio Visual & Communications

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Printing Press Operator	\$38,549	73
High School		Prepress Technicians & Workers	\$40,234	
		Desktop Publishers	\$51,254	13
		Telecommunications Line Installers & Repair.	\$63,300	80
	Certification	Audio Visual Equipment Installers & Repair.	\$46,320	26
2-Year College	Associate's Degree	Broadcast Technicians	\$44,254	11
		Fashion Designer	\$45,875	6
		Camera Operators, TV, Video & Film	\$49,098	8
4-Year College	Bachelor's Degree	Special Effects Artists & Animators	\$34,757	10
		Interior Designers	\$47,418	45
		Writers and Authors	\$47,690	67
		Art Directors	\$50,603	32
		Graphic Designers	\$53,990	109
		Editors	\$60,265	45
		Web Developers	\$89,330	55

# BUSINESS MANAGEMENT & ADMINISTRATION

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA	
Middle School	On-the-Job Training	Receptionists	\$29,771	702	
High School		Stock Clerks & Order Fillers	\$29,854	2,259	
		Shipping, Receiving & Inventory Clerks	\$37,040	286	
		Secretaries & Administrative Assistants	\$37,481	798	
		Bookkeeping, Accounting & Auditing Clerks	\$40,401	993	
		First-Line Supervisors of Production & Operating Workers	\$63,664	248	
2-Year College	Certification	Spa Managers	\$41,468	7	
4-Year College	Associate's Degree	Executive Secretaries & Administrative Assist.	\$60,617	247	
		Bachelor's Degree	Meeting, Convention & Event Planners	\$49,895	82
			Project Management Specialists	\$81,122	347
			Human Resource Specialists	\$63,375	478
			Computer Programmers	\$80,710	58
General Operations Managers	\$100,260		1,212		
Graduate School	Graduate Degree	Chief Executives	\$182,578	89	

# EDUCATION & TRAINING

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Preschool Teachers	\$31,735	342
High School	Certification	Teacher Assistants	\$29,109	415
2-Year College	Associate's Degree	Preschool & Childcare Administrators Career/Technical Education Teachers (College Level)	\$46,447 \$66,859	23 783
4-Year College	Bachelor's Degree	Coaches & Scouts Elementary Teachers Middle School Teachers Secondary School Teachers	\$47,150 \$50,122 \$50,210 \$63,782	295 372 215 279
Graduate School	Graduate Degree	English Teachers (college-level) Librarians Education Administrators (K-12) Education Administrators (college-level)	\$60,387 \$66,859 \$82,324 \$100,555	66 783 85 49



# ENERGY

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Geothermal Technicians	\$36,886	87
High School		Solar Thermal Installers & Technicians	\$48,173	285
		Power Plant Operators	\$63,575	8
		Gas Plant Operators	\$65,072	13
		Electric Power Line Installers	\$66,384	61
		Power Distributors & Dispatchers	\$79,052	8
		Nuclear Power Reactor Operators	\$109,043	8
2-Year College	Associate's Degree	Geothermal Production Managers	\$117,218	36
4-Year College	Bachelor's Degree	Wind Energy Operations Managers	\$87,316	298
		Nuclear Engineers	\$99,287	10
		Biomass Power Plant Operators	\$117,218	36

Data source: Brightpoint Community College Career Coach, [jtcc.emsicc.com](http://jtcc.emsicc.com)

# FINANCE

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Bank Tellers	\$36,494	132
High School		Bill & Account Collectors	\$37,885	178
		Billing & Posting Clerks	\$38,081	184
		Insurance Claims & Policy Processing Clerks	\$39,385	162
		Bookkeeping, Accounting & Auditing Clerks	\$40,401	993
		Tax Preparers	\$48,688	56
2-Year College	Associate's Degree	Insurance Appraisers, Auto Damage	\$76,601	19
4-Year College	Bachelor's Degree	Insurance Sales Agents	\$58,786	361
		Insurance Underwriters	\$62,725	76
		Securities, Commodities & Fin. Service Agents	\$64,770	231
		Loan Officers	\$75,838	188
		Accountant and Auditors	\$76,689	944
		Personal Financial Advisors	\$99,487	147
		Financial Managers	\$148,558	284
Graduate School	Graduate Degree	Investment Fund Managers	\$148,558	284

# GOVERNMENT & PUBLIC ADMINISTRATION

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Appraisers & Assessors of Real Estate	\$65,279	29
High School		Court, Municipal, and License Clerk	\$37,075	55
		Surveying & Mapping Technicians	\$47,663	52
		Transportation Security Screeners	\$42,341	17
		Postal Service Clerks	\$52,320	28
2-Year College	Certification	Construction & Building Inspectors	\$60,106	84
4-Year College	Bachelor's Degree	Interpreters & Translators	\$61,766	36
		Compliance Officers	\$63,670	180
		Public Relations Specialists	\$63,822	163
		Occupational Health & Safety Specialists	\$66,759	42
		Accountants & Auditors	\$76,689	944
		Social & Community Service Managers	\$81,360	86
		General & Operations Managers	\$100,260	1,212
		Transportation, Storage & Distribution Mgrs.	\$98,159	47
Graduate School	Graduate Degree	Urban & Regional Planners	\$64,718	14



# HEALTH SCIENCE

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Home Health Aides	\$22,930	1,741
↓		Nursing Assistants	\$30,027	821
High School		Medical Records Specialists	\$47,216	62
↓	Certification	Emergency Medical Technicians & Paramedics	\$37,129	56
2-Year College		Medical Assistants	\$37,409	355
↓	Associate's Degree	Licensed Practical & Vocational Nurses	\$48,560	295
4-Year College		Dental Hygienists	\$96,343	66
↓	Bachelor's Degree	Community Health Workers	\$49,281	27
Graduate School		Dietitians & Nutritionists	\$61,747	24
		Registered Nurses	\$78,425	792
	Graduate Degree	Athletic Trainers	\$48,212	11
		Clinical & Counseling, Psychologists	\$82,465	21
		Physical Therapists	\$94,573	66
		Veterinarians	\$98,740	28
		Pharmacists	\$128,225	58
		Family Medical Physicians	\$211,019	24

# HOSPITALITY & TOURISM

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Amusement & Recreation Attendants	\$20,840	448
High School		Ushers, Lobby Attendants & Ticket Takers	\$20,888	65
		Fast Food & Counter Workers	\$22,945	3,716
		Janitors & Cleaners	\$27,218	1,445
		Supervisors of Food Prep & Service Worker	\$30,945	883
		Supervisors of Housekeeping & Janitorial	\$36,722	112
		Reservation & Transportation Ticket Agents	\$37,685	65
		Food Service Managers	\$50,830	78
2-Year College	Associate's Degree	Travel Agents Chefs & Head Cooks	\$36,095 \$49,131	32 58
4-Year College	Bachelor's Degree	Recreation Workers Meeting, Convention & Event Planners Lodging Managers	\$28,633 \$49,895 \$51,699	198 82 15
Graduate School	Graduate Degree	Curators	\$64,391	7

# HUMAN SERVICES

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School ↓ High School	On-the-Job Training	Childcare Workers Personal Care Aides Funeral Attendants	\$21,889 \$22,930 \$30,732	733 1,741 32
High School ↓ 2-Year College	Certification	Hairdressers, Hairstylists & Cosmetologists Skincare Specialists Massage Therapists	\$31,232 \$32,195 \$42,687	368 39 92
2-Year College ↓ 4-Year College	Bachelor's Degree	Social & Human Service Assistants Rehabilitation Counselors Supervisors of Personal Service Workers Credit Counselors Community Health Workers Social & Community Service Managers	\$30,664 \$38,710 \$38,996 \$49,048 \$49,281 \$81,360	297 52 76 13 27 86
4-Year College ↓ Graduate School	Graduate Degree	Clergy Mental Health & Substance Abuse Social Wkrs.	\$46,251 \$48,067	250 98

# INFORMATION TECHNOLOGY

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School				
↓				
High School				
↓				
4-Year College →	Bachelor's Degree	Computer User Support Specialists	\$50,402	237
		Computer Network Support Specialists	\$62,979	65
		Computer Programmers	\$80,710	58
		Network & Computer Systems Administrators	\$83,315	126
		Web Developers	\$89,390	55
		Database Administrators	\$97,851	48
		Computer Systems Analysts	\$99,237	239
		Information Security Analysts	\$105,357	110
		Software Developers	\$106,346	600
		Computer & Information Systems Managers	\$158,372	347

# LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Security Guards	\$29,936	779
High School		Correctional Officers & Jailers	\$36,880	160
		Firefighters	\$51,173	150
		Police & Sheriff's Patrol Officers	\$60,652	264
		Detective & Criminal Investigators	\$77,307	35
		Supervisors of Fire Fighting Workers	\$98,029	27
2-Year College	Certification	Emergency Medical Technicians	\$37,129	56
		Paralegals	\$48,255	264
4-Year College	Associate's Degree	Legal Secretary & Administrative Assistants	\$47,234	82
		Forensic Science Technicians	\$60,605	14
4-Year College	Bachelor's Degree	Probation Officers	\$46,310	54
Graduate School	Graduate Degree	Lawyers	\$126,193	244



# MANUFACTURING

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Laborers & Freight, Stock & Material Movers	\$30,353	1,467
High School		Packaging & Filling Machine Operators	\$37,651	224
		Inspectors, Testers, Sorters, & Samplers	\$38,732	154
		Welders, Cutters, Solderers & Brazers	\$47,394	122
		Sheet Metal Workers	\$48,720	31
		Machinists	\$48,787	73
		Supervisors of Production & Operating Wrkrs.	\$63,664	248
2-Year College	Certification	Maintenance & Repair Workers	\$38,930	628
		Computer Numerically Controlled Tool Oper.	\$47,435	25
2-Year College	Associate's Degree	Electrical & Electronics Repairers of Commercial & Industrial Equipment	\$64,410	24
		Electrical & Electronic Engineering Technicians	\$74,266	48
4-Year College	Bachelor's Degree	Environmental Scientists & Specialists	\$67,418	71
		Logisticians	\$71,245	154

# MARKETING

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Cashiers	\$23,318	2,694
High School		Retail Salespersons	\$24,126	2,859
		Hotel, Motel & Resort Desk Clerk	\$25,738	112
		Stock Clerks & Order Fillers	\$29,854	2,259
		Telemarketers	\$30,217	92
		Parts Sales Persons	\$30,471	194
		Reservation & Transportation Ticket Agents	\$37,685	24
		Counter & Rental Clerks	\$37,780	288
		Supervisors of Retail Workers	\$38,236	668
2-Year College	Associate's Degree	Travel Agents	\$36,095	32
		Procurement Clerks	\$46,621	24
4-Year College	Bachelor's Degree	Interior Designers	\$47,418	45
		Advertising Sales Agents	\$49,735	48
		Real Estate Sales Agents	\$63,674	264
		Sales Engineers	\$104,295	15
		Marketing Managers	\$126,406	83
		Public Relations Managers	\$131,925	29

# SCIENCE, TECHNOLOGY, ENGINEERING & MATH

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
Middle School	On-the-Job Training	Food Science Technicians	\$47,137	3
High School	Certification	Civil Engineering Technicians	\$48,627	27
2-Year College	Associate's Degree	Surveying & Mapping Technicians Electrical & Electronic Engineering Technicians Nuclear Technicians	\$47,663 \$74,266 \$85,120	52 48 27
4-Year College	Bachelor's Degree	Computer User Support Specialists Environmental Scientists Chemists Computer Programmers Civil Engineers Mechanical Engineers Chemical Engineers Data Scientists Electrical Engineer Software Developers, Applications	\$50,402 \$67,418 \$80,398 \$80,710 \$81,463 \$83,471 \$99,187 \$101,300 \$101,330 \$106,346	237 71 35 58 164 48 7 57 45 600
Graduate School	Graduate Degree	Mathematical Science Teachers (college-level) Biological Science Teachers (college-level) Architecture & Engineering Managers	\$66,859 \$66,859 \$134,960	783 783 40

# TRANSPORTATION, DISTRIBUTION & LOGISTICS

Typical Education Level	Typical Training at Job Entry	Sample Jobs	Median Pay	Annual Job Openings in Central VA
<p>Middle School</p> <p>↓</p> <p>High School</p> <p>↓</p> <p>2-Year College</p> <p>↓</p> <p>4-Year College</p>	On-the-Job Training	Laborers & Freight, Stock & Material Movers	\$30,353	1,462
		Bus Drivers, School	\$37,474	226
		Shipping, Receiving & Inventory Clerks	\$37,040	286
		Industrial Truck & Tractor Operators	\$39,549	573
		Operating Engineers & Other Construction Equipment Operators	\$47,178	280
		Heavy & Tractor Trailer Truck Drivers	\$45,485	1,468
		Dispatchers	\$46,870	117
		Production, Planning & Expediting Clerks	\$47,469	173
		Air Traffic Controllers	\$163,133	9
	Certification	Automotive Service Technicians & Mechanics	\$45,521	383
		Aircraft Mechanic & Service Technicians	\$66,412	67
	Associate's Degree	Aviation Inspectors	\$91,623	6
	Bachelor's Degree	Logisticians	\$71,245	154
		Transportation, Storage & Distribution Mgrs.	\$98,159	47
		Airplane Pilots	\$172,478	42