



JOBS e Q

Perkins V Report

Strengthening Career & Technical Education

in Alexandria city, VA



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About this Report

The education industry supplies human capital to all industries. This report takes a macroeconomic view of the industries and the occupations that currently underpin the Alexandria city, VA economy. Knowing what skills and occupations local employers need now and in the future will help the education community better anticipate curriculum that prepares students for those job openings.

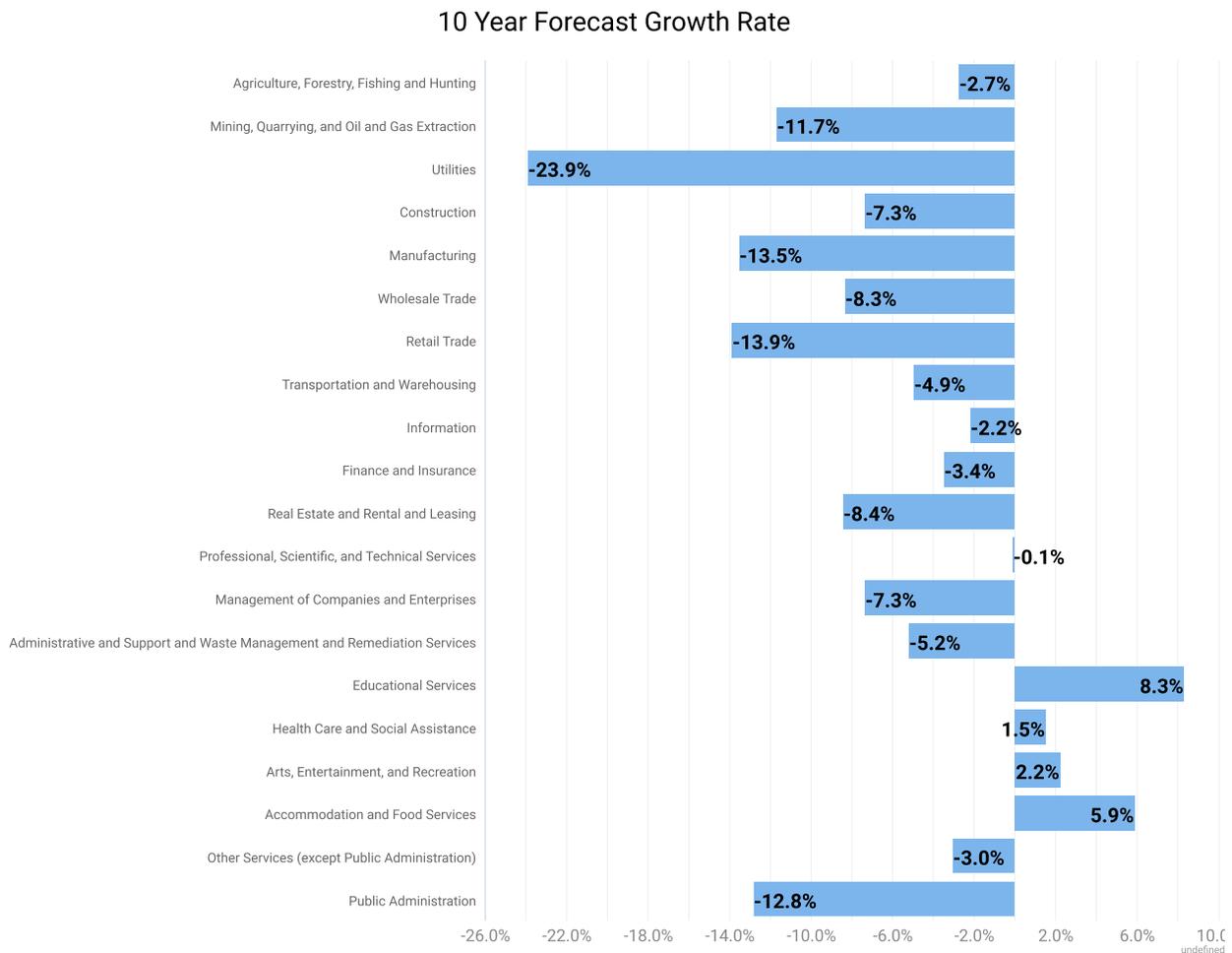
This report is designed to help educators who want to move beyond compliance and use Perkins V to make a real difference in their students' education. It provides actionable labor market intelligence—one of the Comprehensive Local Needs Assessment's (CLNA's) six requirements to bridge secondary education students to skilled jobs that employers need in the Alexandria city, VA.

Industry Growth Forecasts

To help high school students select careers, educators can show them the earnings potential and the job opportunities across all industries today and in the future.

Employers can be categorized into one of 20 major industry sectors. The chart below shows the net job growth forecast for these sectors in the Alexandria city, VA.

As of the fourth quarter of 2022, the Alexandria city, VA had 4 sectors forecast to have positive employment growth over the next ten years and 16 sectors projected to contract. Those growing include "Educational Services," "Accommodation and Food Services" and "Arts, Entertainment, and Recreation."



Industry Forecasts Including Retirement Demand

For an accurate assessment of future demand, the number of people retiring from an industry need to be taken into account. From that perspective, the "Accommodation and Food Services," "Professional, Scientific, and Technical Services" and "Public Administration" sectors are expected to have the highest annual job demand in the Alexandria city, VA.

Sector	Employment	Avg Ann Wages	Ann Empl Growth	Ann Total Demand
Accommodation and Food Services	7,982	\$31,774	46	1,441
Professional, Scientific, and Technical Services	15,738	\$126,123	-1	1,412
Public Administration	13,793	\$118,736	-188	1,177
Other Services (except Public Administration)	9,730	\$86,141	-30	1,144
Health Care and Social Assistance	8,438	\$69,032	13	881
Retail Trade	6,942	\$45,509	-103	874
Educational Services	5,345	\$71,087	43	571
Administrative and Support and Waste Management and Remediation Services	4,858	\$68,481	-26	562
Transportation and Warehousing	3,809	\$66,083	-19	437
Construction	2,832	\$77,997	-21	255
Finance and Insurance	2,756	\$138,826	-10	249
Arts, Entertainment, and Recreation	1,433	\$32,816	3	216
Real Estate and Rental and Leasing	2,100	\$82,441	-18	199
Manufacturing	1,516	\$45,949	-22	142
Information	1,264	\$124,766	-3	121
Wholesale Trade	1,166	\$91,433	-10	119
Management of Companies and Enterprises	730	\$113,814	-6	63
Utilities	304	\$117,300	-8	21
Agriculture, Forestry, Fishing and Hunting	23	\$89,213	0	3
Total - All Industries	91,156	\$86,609	-340	10,154

Detailed Industry Projections

Total employment in the Alexandria city, VA is forecast to decline 3.7% over the next ten years, compared with an expected growth rate of 5.5% in the nation over the same period.

At the detailed industry level, "Elementary and Secondary Schools" and "Restaurants and Other Eating Places" are expected to experience the most job gains over this period.

Industry	Employment	Avg Ann Wages	Hist 10yr Change	Proj 10yr Growth
Elementary and Secondary Schools	4,021	\$77,441	26	430
Restaurants and Other Eating Places	6,698	\$30,674	626	375
Computer Systems Design and Related Services	3,461	\$138,092	-1,009	312
Individual and Family Services	615	\$60,185	-200	127
Traveler Accommodation	799	\$39,155	-870	101
Management, Scientific, and Technical Consulting Services	3,653	\$133,463	-952	92
Other Personal Services	685	\$40,442	-43	91
Civic and Social Organizations	393	\$67,199	-77	85
Continuing Care Retirement Communities and Assisted Living Facilities for the Elderly	1,009	\$48,959	288	60
Personal Care Services	827	\$45,900	23	58

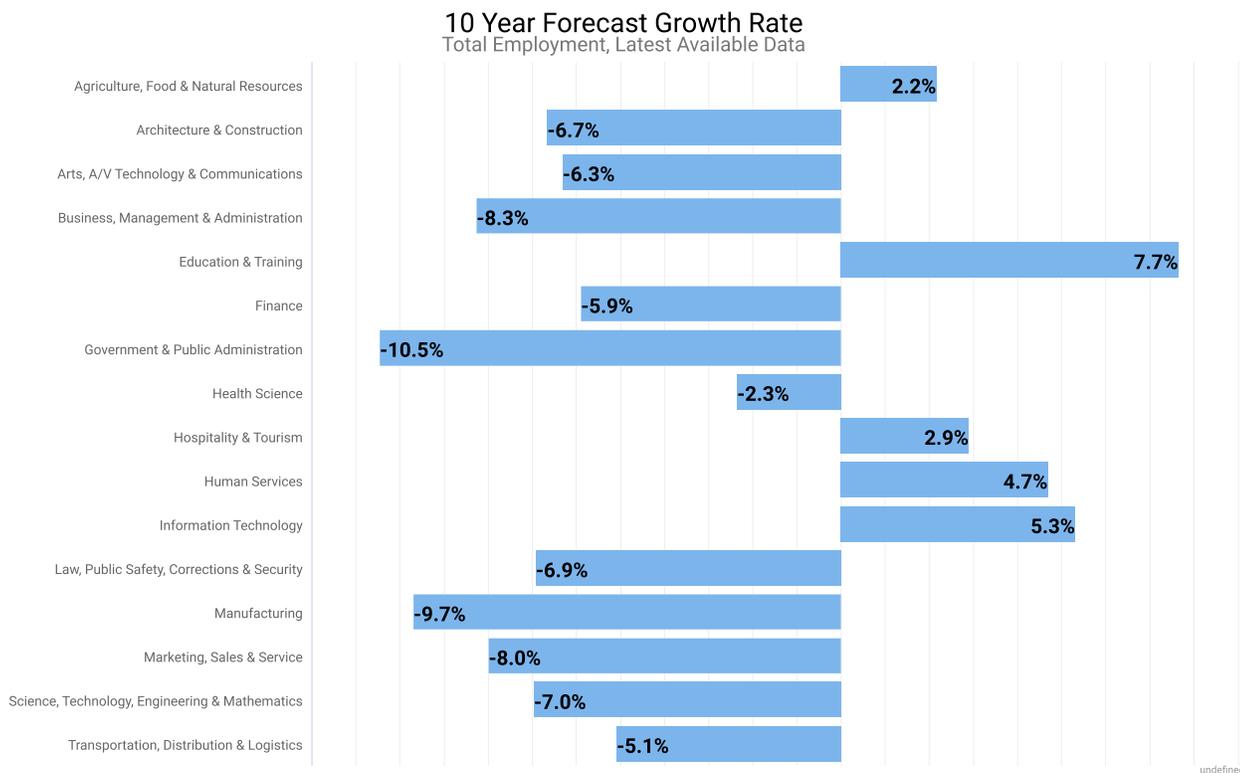
"Administration of Economic Programs " and "National Security and International Affairs " are projected to have the largest job declines in the region over the next ten years.

Industry	Employment	Avg Ann Wages	Hist 10yr Change	Proj 10yr Growth
Administration of Economic Programs	6,739	\$134,659	-2,043	-898
National Security and International Affairs	3,812	\$101,712	396	-508
Business, Professional, Labor, Political, and Similar Organizations	4,244	\$120,882	-837	-419
Grocery and Convenience Retailers	1,958	\$36,878	441	-319
Architectural, Engineering, and Related Services	2,724	\$128,394	-925	-237
Justice, Public Order, and Safety Activities	1,649	\$100,658	-131	-175
Services to Buildings and Dwellings	1,442	\$35,744	-1,080	-127
Accounting, Tax Preparation, Bookkeeping, and Payroll Services	1,172	\$102,265	-206	-109
Administration of Human Resource Programs	787	\$113,615	21	-108
Newspaper, Periodical, Book, and Directory Publishers	382	\$174,482	-17	-104

Career Cluster Growth Forecasts

With hundreds of occupations, it can be difficult for educators to pinpoint the most promising high-demand and high-wage occupations in their region that provide rewarding careers for their students. Analysis of the sixteen CTE Clusters provides an entryway into career pathways.

Of the sixteen career clusters, five are expected to expand employment in the Alexandria city, VA over the next ten years. Of those five, "Information Technology" pay more than the average occupation wage in the region (\$79,200).



Career Cluster Forecasts Including Retirement Demand

Similar to the analysis of industry employment growth, an accurate assessment of future occupation demand requires that the number of people retiring be taken into account as shown in the table below. In the Alexandria city, VA, "Hospitality & Tourism," "Business, Management & Administration" and "Marketing, Sales & Service" clusters are expected to have the highest annual job demand.

"Science, Technology, Engineering & Mathematics" has the highest wages of the CTE Clusters followed by the "Information Technology" and "Finance" clusters.

Career Cluster	Employment	Avg Ann Wages	Job Ads	Ann Empl Growth	Ann Total Demand
Science, Technology, Engineering & Mathematics	2,591	\$130,100	0	-19	166
Information Technology	4,813	\$122,800	0	25	365
Finance	4,240	\$104,800	0	-26	326
Law, Public Safety, Corrections & Security	4,974	\$96,600	0	-36	458
Health Science	6,402	\$92,300	0	-15	508
Business, Management & Administration	20,078	\$91,200	0	-172	1,905
Government & Public Administration	1,370	\$86,900	0	-15	107
Arts, A/V Technology & Communications	1,549	\$83,900	0	-10	144
Education & Training	4,772	\$78,800	0	35	487
Architecture & Construction	4,466	\$70,900	0	-31	386
Marketing, Sales & Service	8,528	\$69,900	0	-71	960
Manufacturing	4,250	\$64,900	0	-43	389
Agriculture, Food & Natural Resources	951	\$64,800	0	2	134
Transportation, Distribution & Logistics	6,255	\$60,200	0	-33	708
Human Services	4,475	\$53,800	0	21	599
Hospitality & Tourism	11,442	\$39,600	0	33	2,031
Total - All Occupations	91,156	\$79,200	0	-340	9,686

Detailed Occupation Projections

There are over 800 defined occupations at the detailed level. Among those occupations that support a living wage, "Software Developers" and "Information Security Analysts" are expected to add the most jobs over the next ten years in the Alexandria city, VA.

Occupation	Employment	Avg Ann Wages	Job Ads	Hist 10yr Change	Proj 10yr Growth
Software Developers	1,626	\$140,500	0	1,556	196
Information Security Analysts	303	\$135,400	0	27	72
Elementary School Teachers, Except Special Education	633	\$94,200	0	-24	67
Secondary School Teachers, Except Special and Career/Technical Education	494	\$94,100	0	27	61
Market Research Analysts and Marketing Specialists	740	\$89,300	0	152	59
Substance Abuse, Behavioral Disorder, and Mental Health Counselors	321	\$67,100	0	125	43
Management Analysts	2,125	\$116,400	0	-689	39
Nurse Practitioners	92	\$131,400	0	37	33
Middle School Teachers, Except Special and Career/Technical Education	296	\$95,200	0	-15	31
Medical and Health Services Managers	226	\$148,400	0	22	29

Of occupations supporting a living wage, "Business Operations Specialists, All Other" and "Bookkeeping, Accounting, and Auditing Clerks" are projected to have the largest decline in employment over the next ten years.

Occupation	Employment	Avg Ann Wages	Job Ads	Hist 10yr Change	Proj 10yr Growth
Business Operations Specialists, All Other	1,965	\$103,200	0	696	-183
Bookkeeping, Accounting, and Auditing Clerks	1,112	\$57,600	0	-408	-153
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	872	\$52,100	0	-289	-151
Registered Nurses	1,373	\$94,100	0	-75	-95
First-Line Supervisors of Office and Administrative Support Workers	803	\$79,500	0	-220	-90
First-Line Supervisors of Retail Sales Workers	596	\$61,000	0	-158	-87
Executive Secretaries and Executive Administrative Assistants	304	\$82,200	0	-841	-81
General and Operations Managers	2,265	\$154,100	0	283	-72
Managers, All Other	796	\$150,900	0	307	-71
Accountants and Auditors	1,298	\$103,600	0	-274	-70

Regional Colleges and Universities

For students interested in advanced degrees, the list below provides the largest postsecondary schools within the Alexandria city, VA. The schools are sorted by enrollment size.

School	Certificates and 2yr Awards	4yr Awards	Total School Enrollment	Avg Net Price
Stratford University	140	312	1,947	\$23,243
Total	140	312	1,947	n/a

Alexandria city, VA Regional Map



Data Notes

- Industry employment and wages (including total regional employment and wages) are as of 2022Q4 and are based upon Bureau of Labor Statistics (BLS) QCEW data, imputed by Chmura where necessary, and supplemented by additional sources including non-covered employment such as self-employed. Employment forecasts are modeled by Chmura and are consistent with BLS national-level 10-year forecasts.
- Occupation employment is as of 2022Q4 and is based on industry employment and local staffing patterns calculated by Chmura and utilizing BLS Occupation Employment and Wage Statistics (OEWS) data. Wages by occupation are as of 2022Q4, utilizing BLS OEWS data, imputed and brought forward by Chmura. Occupation employment forecasts are modeled by Chmura and are consistent with BLS national-level 10-year forecasts.
- Job ads data are online job posts from the Real-Time Intelligence (RTI) data set, produced wholly by Chmura and gleaned from over 40,000 websites. Data reflect ads active during the last twelve month period ending 04/26/2023 and advertised for any Zip Code Tabulation Area in or intersecting with the region for which this report was produced.
- For skill and certification gaps, openings and candidates are based upon regional occupation demand (growth plus separations) and the percent of skill demand and supply. Skill demand mix data are per a one-year sample of RTI data; skill supply data are estimated using a five-year sample of resumes data; both data sets compiled as of August 2021. Data may be based, at least in part, on data from broader geographies; see the Skill Gaps analytic export for more details.
- Postsecondary are per the National Center for Education Statistics. Awards and enrollment are for the 2020-2021 academic year and average net price data are for the 2020-2021 academic year.
- Figures may not sum due to rounding.

FAQs

How are industries and occupations defined?

Industries are defined via the North American Industry Classification System (NAICS). “Sectors” in this report represent 2-digit NAICS codes and industries in the “Industry Analysis” section of this report represent 4-digit NAICS codes. Occupations are defined via the Standard Occupational Classification System (SOC). Occupations in the “Occupation Analysis” section of this report represent 6-digit SOC codes. “CTE Clusters” are collections of 6-digit SOC occupations as defined through the National Career Clusters® Framework.

How is “Ann Total Demand” defined?

Annual total employment demand is forecast job demand that includes job needs due to growth, exits (such as retirements), and transfers (individuals moving from one career into another).

What is the Living Wage used in this report?

The living wage in the United States is \$24.16 per hour in 2021, before taxes for a family of four (two working adults, two children) - MIT Living Wage Calculator.