The Virginia Association for Career and Technical Education (Virginia ACTE) provides leadership in developing an educated, prepared, adaptable, and competitive workforce. Members include educators, business partners, parents, administrators, and others committed to expanding opportunities for Career and Technical Education.

VISION

The Virginia ACTE is the organization that advocates for, supports, and serves all aspects of Career and Technical Education for the benefit of education and the economy in the Commonwealth of Virginia.

MISSION

The Virginia ACTE is dedicated to expanding relevant and rigorous Career and Technical Education programs, enhancing leadership among its members, and influencing public policy for the benefit of Career and Technical Education students and professionals and developing a competitive workforce in the Commonwealth of Virginia.

STRATEGIES

1. Ensure all students have the opportunity to be career ready through all levels of education and training.
2. Continue to influence state-of-the-art Career and Technical Education programs throughout Virginia.
3. Provide professional development and leadership opportunities for Career and Technical Education teachers and administrators.
4. Influence and support public policy initiatives that enhance and benefit Career and Technical Education in Virginia.
5. Strengthen the organization through increased active membership.
6. Inform all members of educational initiatives and national and state public policies that affect Career and Technical Education.
7. Communicate critical needs of Career and Technical Education to policymakers, parents, business and industry, students, and communities.

http://www.VirginiaACTE.org

Find us on Facebook @VirginiaACTE

Dr. Brenda D. Long, Executive Director brendalong73@gmail.com

September 2020
Connecting Learning to Successful Careers

**Resources**

Brittany Council-Morton
4-H Agriculture Natural Resources Extension Agent
Richmond, VA

**About Career Cluster**

- The Animal Systems pathway is projected to experience double-digit growth through 2026, adding nearly 2,200 new jobs.

**Farmer, Cashiers, and other agricultural managers** will account for nearly 2,700 job openings each year throughout the state, while the nonfarm animal caretakers are expected to have approximately 2,223 new jobs by 2026.

Andrew Heinzman
Economic Consulting Analyst
Cornerstone Research/UCLA
Los Angeles, CA

**Business Management & Administration**

- The Business Management & Administration cluster consists of approximately 126,737 positions in 2016, the most of any cluster.
- By 2026, approximately 1,320 more positions are expected to be available in this cluster, for a total of more than 177,660.

**Government & Public Administration**

- The Government & Public Administration cluster is expected to grow by 11% through 2026 and add approximately 1,611 more positions across the Commonwealth by 2026.
- Percentage increases in the number of financial examiners (18%), appraisers and assessors of real estate (16%), urban and regional planners (15%), occupational health and safety technicians (15%), and compliance officers (13%) are projected to account for approximately 1,300 additional jobs by 2026.

Dr. Yvette Lowery
Nurse Practitioner
Memorial Hospital
Jacksonville, FL

**Health Science**

- The Health Science cluster is projected to have the second highest rate of job growth of all clusters in Virginia (23%). In 2016, there were approximately 106,000 jobs associated with this cluster, and about 63,050 additional jobs are expected by 2026.
- This expected growth is due to an aging population and because federal health insurance reform should increase the number of individuals who have access to health insurance.
- Employment of nursing assistants is projected to grow 21% from 2016 to 2026, much faster than the average for all occupations.

**Information Technology**

- The Information Technology cluster is expected to have the third highest percentage of job growth in Virginia among all clusters through 2026 (17%).
- Two occupations in this cluster are expected to expand by 30% or more by 2026; information security analysts (42%) and applications software developers (33%).
- All occupations in this cluster have a predominate education level of bachelor’s degree or higher.

Kara Lucord
Data Scientist
Oracle Data Cloud
Denver, CO

**Law, Public Safety, Corrections, and Security**

- Emergency & Fire Management Services is projected to have the highest percentage of employment growth (12%) through 2026.
- The Security & Protective Services pathway is projected to have the greatest increase in overall number of jobs (9,420) through 2026.
- Two occupations in this cluster expect more than 15% growth by 2026; emergency medical technicians and paramedics (20%) and forensic science technicians (19%).

2nd Lt. Emily Fray
Special Projects Supervisor/Reserve Deputy Coordinator
Fairfax County Sheriff’s Office
Fairfax, VA

**Marketing**

- With nearly 404,000 positions anticipated by 2026, Marketing is one of the largest career clusters in Virginia.
- Employment for market research analysts and marketing specialists is expected to grow by 27% between 2016 and 2026.
- Advertising and promotion managers are projected to experience 13% job growth and marketing managers, 13% growth, by 2026.

Hanna Gardner
Account Executive
CRC Strategies
Alexandria, VA

**Transportation, Distribution, & Logistics**

- In 2016, this cluster provided approximately 273,700 jobs in Virginia, and about 24,600 more are expected by 2026.
- The Transportation Operations pathway will see the greatest increase in overall number of jobs and will have the most job openings each year during this time period.

Shane Robertson
Automotive Technology Instructor
Louisa County High School
Louisa, VA

Daniel Louis McCloud
CNC Operator Level 3
Rolls-Royce Crosspointe
Prince George, VA

**Learn more about career clusters at**

CTE connects learning to military and civilian careers; JROTC kick-started Daniel Louis McCloud’s military career.

Kat McDearis
Owner
Kate McDearis Multimedia LLC
Knoxville, TN

**Arts, Audio/Video Technology & Communications**

- Employment in journalism and broadcasting is projected to grow by 10% by 2026.
- Employment for film and video editors will grow by 16% by 2026, the highest among all occupations in the cluster.
- Between 2016 and 2026, employment of technical writers will grow by 15% or approximately 410 positions.

Emily Mayes
Outreach Director
Girls Inc. Kingsport, TN

**Human Services**

- The Human Services cluster is projected to have the highest rate of job growth of all clusters in Virginia (22%).
- The Human Services cluster is expected to grow by more than 30,700 jobs between the years 2016 and 2026, with approximately 31,276 job openings available annually.
- Over 74% of the annual job openings each year are expected to include more than 267,000 positions in Virginia, ranging from security and fire alarm systems installers to electronic medical technicians and machinists.
- This cluster is projected to have about 38,000 job openings annually as a result of both job growth and net replacement of employees who leave their jobs.

Troy Mumpower
Electric Power Generation Field Technician
Albany-Danterpillar
Winchester, VA

**Finance**

- By 2026, this cluster is anticipated to include more than 267,000 positions in Virginia, ranging from security and fire alarm systems installers to electronic medical technicians and machinists.
- This cluster is projected to have about 38,000 job openings annually as a result of both job growth and net replacement of employees who leave their jobs.

Donovan Huffer
Director of Financial Recording
Barker Steel Co.
Lynbrook, NY

- It is estimated that nearly 166,100 jobs will be available in the five pathways in the Finance cluster by 2026.
- Finance is projected to have the highest job growth rate among all pathways in this cluster through 2026 (19%); within this pathway, financial managers are projected to experience the highest percentage of job growth (21%).
- Over the Finance cluster is expected to grow by 11%.

Sarah Gentry
General Foreman
Newport News Shipbuilding
Newport News, VA

**Manufacturing**

- By 2026, this cluster is expected to employ about 70,000 workers, a 12% growth over the decade in the Commonwealth.
- Statisticians are projected to experience the highest rate of job growth in this cluster through 2026 (43%), while social scientists and related workers are expected to see the greatest number of annual job openings (43%).

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