

Governor's STEM Academy Brief



Office of Career, Technical, and Adult Education

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The purpose of the monthly brief is to provide information, resources, and a networking vehicle to support the STEM (science, technology, engineering, and mathematics) Academies in Virginia.

GOVERNOR'S STEM ACADEMIES SPOTLIGHTS

The Governor's STEM Academy of Arlington County offers an automotive technician program as part of the Transportation, Distribution and Logistics cluster. This past summer, 18 students, both rising juniors and seniors, in the automotive technology program were placed in an eight-week paid internship, working with master technicians in the automotive technology field. Students interned at local dealerships, independent companies, and the Metro Authority as they honed their automotive technician skills. Participating businesses were Mercedes Benz of Arlington, Priority Nissan Mazda, Alexandria Toyota, Koon's Chrysler/Dodge, Chariots for Hire, Tech U Fit, and Integrity Tire and Auto.

CURRENT DEVELOPMENTS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

- [Aeropolitics \(@aeropolitics\) on Twitter](#)
- [U.S. Department of Transportation's Facebook page](#)
- [Virginia Transit Association](#)
- [The Future of Transportation in Virginia](#) from the Virginia Department of Transportation.
- [Inbound Logistics magazine](#)—Logistics and supply chain articles, news, tools, and more.
- [Inbound Logistics \(@ILMagazine\) on Twitter](#)
- [American Public Transportation Association's Facebook page](#)
- [The Long Road to a Driverless Future](#)—a video from Future for All's "Living with Robots" series.
- [The Future of Transportation—Future for All video articles](#)
- [Logistics Executives Say Brexit Will Rattle European Supply Chains](#)—an article from *The Wall Street Journal* examining the effect Great Britain's exit from the European Union will have on shipping and logistics.
- [2016 Manufacturing & Logistics Report Card for the United States](#)—an in-depth report card on individual states, examining the logistics industry.
- [A Robot May Soon Fix Your Car](#)—an article from *Fortune* magazine about auto mechanics sharing garage space with robotic helpers.

By Sea...

- [American Association of Port Authorities](#)—describes the benefits of the American Association of Port Authorities.
- [Maritime and Waterways](#)—from the U.S. Department of Transportation.

By Air...

- [ATWOnline | Air Transport World](#)—current articles related to the world of aviation.

By Land...

- [All aboard · Industries | Virginia Business; How a \\$1.4B DOT plan in Virginia could boost high-speed rail in N.C.](#)—articles discussing the benefits and challenges of high speed rail service from North Carolina to Richmond to Washington, DC.
- [Railroads and States - Association of American Railroads](#)—information about railroads in America.
- [Automotive Service Technicians and Mechanics : Occupational; What Does an Auto Technician Do? - Learn.org](#)—information for anyone interested in a career as an automotive service technician
- [Adventure Cycling Association: America's Bicycle Travel Experts](#)—sites for people who enjoy cycling and for those who see cycling as an alternative mode of transportation

- [Childhood dream fuels career success in transportation](#)—from the *Los Angeles Sentinel*, an inspirational story of a woman who accomplishes her childhood dream in a big way.

INSTRUCTIONAL STRATEGIES—TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

- [Airman Knowledge Test Guides](#)—testing preparation from the Federal Aviation Administration.
- [IATA Training and Development Institute \(ITDI\) | Aviation Training](#)—training and development curriculum from the International Air and Transport Association.
- [Resources for Teachers and Mentors](#)—curriculum resources for teaching females interested in transportation as a career, from the U.S. Department of Education.
- [Museum of the American Railroad; Early American Railroads](#)—historical perspectives of the early American railroad.
- [America on the Move](#)—classroom activity guides that help students explore how transportation changed and evolved to reflect the changes in the country.
- [Energy And Cars: What Does The Future Hold?; Hybrid Cars Lesson Plans and Lesson Ideas](#)—lesson plans on energy, technology, and cars.

CAREERS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

- [Transportation Careers, Jobs and Employment Information](#)—explore the types of careers available in the transportation field.
- [U.S. Department of Transportation](#)—transportation resources focusing on automobiles, roadways and bridges, aviation, railroads, and more.
- [Transportation and Warehousing: NAICS 48-49](#)—statistics and data from the U.S. Department of Labor on transportation and the warehousing sector.
- [Federal Motor Carrier Safety Administration](#)—news, regulations, and safety information for drivers, carriers, and consumers.
- [U.S. Coast Guard](#)—official website of the United States Coast Guard, under the U.S. Department of Homeland Security.
- [Logistics Jobs | Transportation Jobs | Distribution Jobs](#)—an online job board.
- [Flight Attendants : Occupational Outlook Handbook](#)—provides a summary of the career of a flight attendant.
- [How to Be an Effective Warehouse Manager](#)—from the Houston Chronicle, highlights requirements and steps necessary to becoming a successful warehouse manager.
- [Heavy and Tractor-trailer Truck Drivers : Occupational Outlook](#)—provides a summary of the career of heavy and tractor trailer truck drivers.
- [How to Become an Environmental Health and Safety Manager](#)—examines the importance of the role of environmental management in relation to shipping and transportation.
- [How A Supply Chain Management Degree Matters](#)—provides a detailed description of how the types of careers involved in transportation, distribution, and logistics are interconnected.

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