



# VIRGINIA ADVANTAGES

Automotive



**VIRGINIA ECONOMIC  
DEVELOPMENT PARTNERSHIP**

**YESVIRGINIA.ORG**

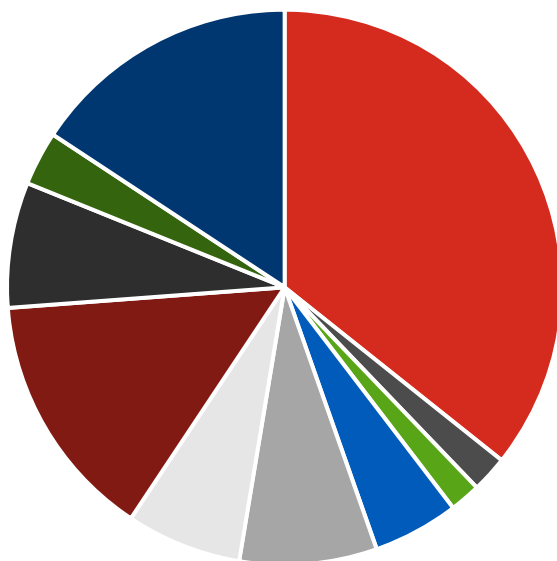
## Virginia's Automotive Industry

- Employs more than 20,000 people
- Consists of 158 companies, with 118 in the Automotive Parts sector
- Supported by 357 machine shops employing 5,000 people
- Home to Volvo Truck North America's New River Valley Plant (Dublin, Virginia) – the largest Volvo truck plant in the world
- Announced 84 projects for over 5,400 new jobs and investments of \$1.3 billion over the past ten years
- Performs research and development at cutting-edge facilities:
  - Virginia Tech Transportation Institute
  - Commonwealth Center for Advanced Manufacturing
  - Global Center for Automotive Performance Simulation
  - Center for Collision Safety and Analysis
  - National Center for Coatings Application, Research, and Education
- Home to the headquarters of Volkswagen Group of America
- Has a direct economic impact of \$7.7 billion
- Central location on the Atlantic Coast provides interstate and rail access to the Northeast, Southeast, and Midwest
- Access to international markets provided by the Port of Hampton Roads and Washington-Dulles International Airport

## Automotive Industry Employment in Virginia

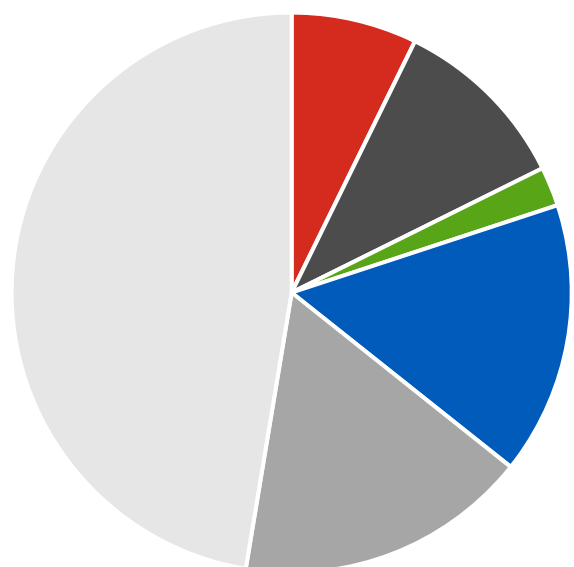
Virginia's automotive industry employs more than 20,000 people. The automotive industry accounts for 8% of Virginia's 243,031 manufacturing workers. The top three automotive industry sectors by employment are Assembly, Bodies, and Trailers (7,100); Tires and Materials (3,100); and Other Parts (2,900). These three sectors comprise 66% of automotive industry employment in Virginia. Virginia's automotive companies create \$7.7 billion in direct economic output and support an additional \$3.9 billion of output. The automotive industry in Virginia benefits from 357 machine shops employing more than 5,000 people.

Employment by Sector



- Assembly, Bodies, & Trailers
- Brake Parts
- Electrical Parts
- Engine Parts
- Interiors
- Other Automotive
- Other Parts
- Power Train
- Steering & Suspension
- Tires & Materials

Employment by Region



- Central Virginia
- Hampton Roads
- Northern Virginia
- Southside Virginia
- Southwestern Virginia
- Valley Region

## Automotive Industry Firms in Virginia

Virginia is home to 158 automotive companies. The automotive industry accounts for 3% of Virginia's total of 6,107 manufacturing establishments. The top three sectors for companies in Virginia's Automotive Industry are Other Parts (43); Assembly, Bodies and Trailers (33); and Engine Parts (18). These three sectors represent 60% of Virginia's automotive companies. Virginia covers all aspects of the automotive industry: vehicle assembly, bodies and trailers, parts, tires, and corporate offices.

### Major Automotive Companies in Virginia

- Afton Chemical
- Altec Industries
- Atsumi Car Equipment
- Axalta Coating Systems
- Continental
- Corning
- Dynax America
- FDP
- Federal Mogul
- Goodyear Tire & Rubber
- Hutchinson Worldwide
- IAC
- KVK Precision
- Liebherr
- Metalsa
- Paramount Manufacturing
- Parker Hannifin
- Schrader Bridgeport
- Somic America
- Tenneco Automotive
- Toray Plastics
- TRW
- Usui International
- Utility Trailer
- Volkswagen of America
- Volvo Trucks North America
- Wolverine Advanced Materials
- Yokohama Tire

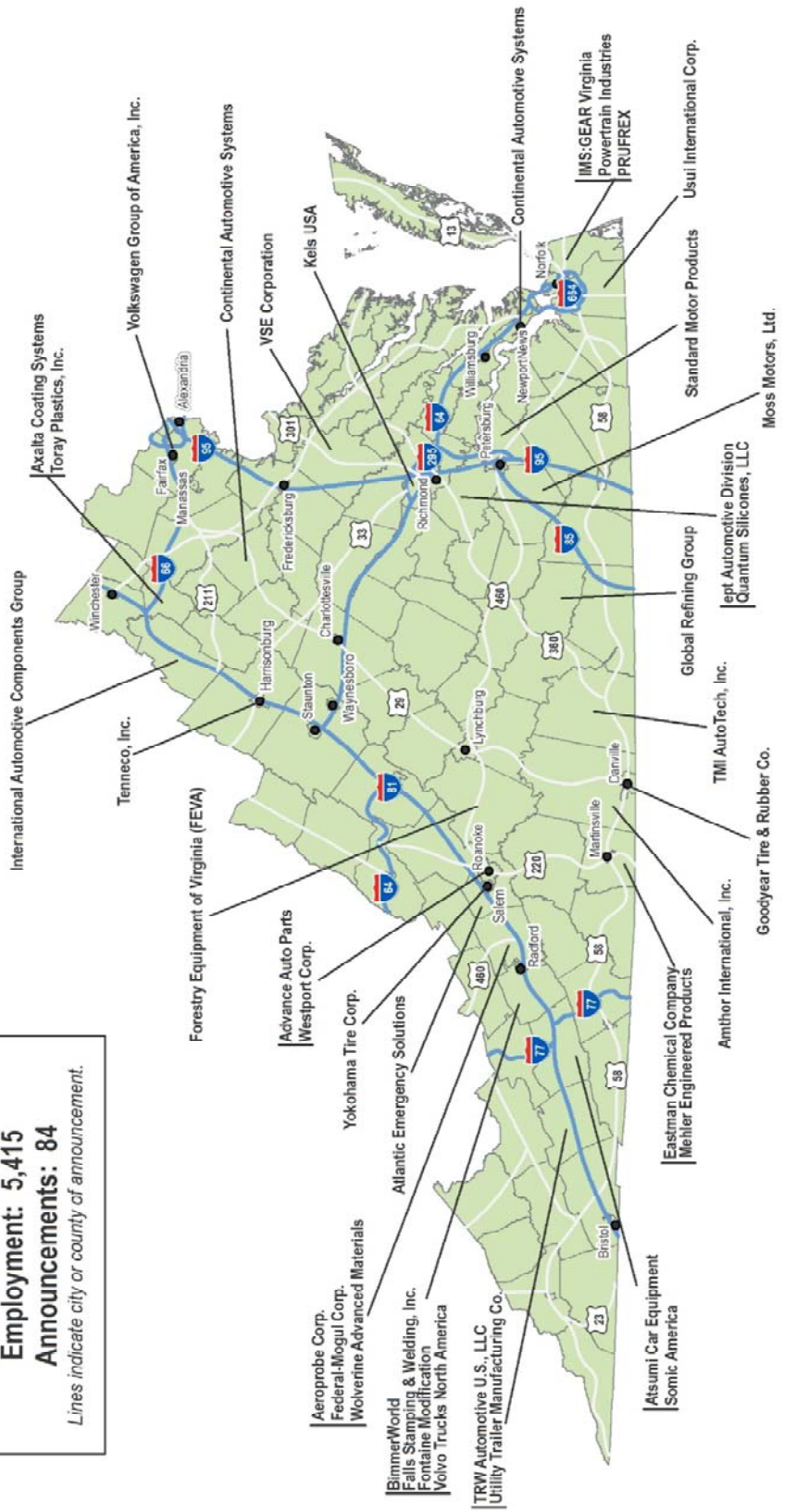
### New and Expanding Automotive Companies in Virginia

In the past ten years, 88 Automotive Industry projects have announced almost 5,700 new jobs and investments of \$1.3 billion. The list of automotive companies growing in Virginia includes

- Amthor International
- Continental Automotive Systems
- Dynax America
- IAC
- Utility Trailer
- Volvo Trucks North America
- Wolverine Advanced Materials
- Yokohama Tire

## AUTOMOTIVE INDUSTRY ANNOUNCEMENTS 2006 - 2015

**Investment: \$1.29 billion**  
**Employment: 5,415**  
**Announcements: 84**  
*Lines indicate city or county of announcement.*



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Sources: ESRI 2016, VEDP 2016

**Virginia's Skilled Workforce**

Selected Automotive Occupations	Employment	Median Salary
First-Line Supervisors of Production and Operating Workers	12,760	\$60,480
Electrical and Electronic Equipment Assemblers	3,100	\$33,720
Engine and Other Machine Assemblers	470	\$38,970
Team Assemblers	15,200	\$26,100
Computer-Controlled Machine Tool Operators, Metal and Plastic	1,140	\$38,380
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,980	\$34,370
Machinists	6,850	\$43,600
Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	2,150	\$32,120
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	980	\$32,060
Tool and Die Makers	540	\$48,710
Welders, Cutters, Solderers, and Brazers	7,060	\$43,810
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	1,800	\$43,610
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	160	\$46,580
Helpers--Production Workers	6,440	\$24,920

Source: U.S. Bureau of Labor Statistics, 2015

## Education, Training, and Workforce in Virginia

Virginia's state universities offer world-class engineering programs. Virginia Tech's Department of Mechanical Engineering is home to many automotive-related research centers and labs, including the Virginia Tech Transportation Institute and the Center for Vehicle Systems and Safety. Virginia Tech also partners with Southern Virginia Vehicle Motion Labs in Alton and the Institute for Advanced Learning and Research in Danville to provide real world settings to test new technology.

Other engineering programs in Virginia include

- George Mason University
- James Madison University
- Norfolk State University
- Old Dominion University
- University of Virginia
- Virginia Commonwealth University
- Virginia Military Institute
- Virginia State University

The Virginia Community College System provides education and training programs for Virginians and Virginia businesses. Automotive-related degree programs include

- CAD/CAM
- Engineering Technology
- Industrial Electronics
- Industrial Production
- Industrial Technology
- Precision Machining
- Mechanical Engineering Technologies
- Welding

Virginia's labor force benefits from thousands of skilled workers exiting the military each year from Virginia bases.

## Motorsports in Virginia

Virginia's motorsports assets allow cutting edge automotive technology to be tested on the track.

- Virginia International Raceway
- Richmond International Raceway
- Martinsville Speedway
- Virginia Motorsports Park

## Virginia's Automotive Research and Development

Virginia is home to diverse set of automotive R&D facilities which allow companies to develop, test, and commercialize next generation technologies.

- Virginia Tech Transportation Institute
  - Smart Road
  - National Surface Transportation Safety Center for Excellence
  - Center for Advanced Automotive Research
  - Center for Automated Vehicle Systems
  - Center for Injury Biomechanics
  - Center for Sustainable Mobility
  - Center for Truck and Bus Safety
- Virginia Tech Center for Vehicle Systems & Safety
  - Advanced Vehicle Dynamics Laboratory
  - Vehicle Terrain Performance Laboratory
  - Intelligent Transportation Laboratory
- Global Center for Automotive Performance Simulation
  - National Tire Research Center
  - Southern Virginia Vehicle Motion Labs (SoVa Motion)
  - Virtual Design and Integration Laboratory
- Commonwealth Center for Advanced Manufacturing
- National Center for Coatings Application, Research, and Education
- Center for Collision Safety and Analysis
- University of Virginia Center for Applied Biomechanics
- Virginia Modeling and Simulation Center
- Vehicle Research Institute