

# 2018 YEARBOOK OF MARYLAND MANUFACTURING REGIONAL MANUFACTURING INSTITUTE OF MARYLAND



# INTRODUCTION



The Regional Manufacturing Institute of Maryland (RMI) is pleased to offer the 2018 Champions of Maryland Manufacturing Yearbook to recognize Maryland's public and private sector Champions for their outstanding commitment to our industry and our communities.

Champions are companies, people, agencies, schools, other organizations and projects whose accomplishments promote a positive image of Maryland manufacturing. Collectively, they provide excellent leadership in so many ways as they engage our communities, grow our private sector, make our government programs more efficient and prepare our youth for great jobs in manufacturing.

Recognizing the Champions of Maryland Manufacturing is a critical element of RMI's Image Campaign to promote a positive image of the industry. By helping to tell the stories of those that are championing the manufacturing effort in Maryland, we help public policymakers better understand the products made in their jurisdictions and how those goods help us in our daily lives. We also help educators, parents, and students see manufacturing as a viable, enriching career opportunity.

As you read this publication, we hope you that you will feel a sense of great Maryland pride.

Please enjoy learning about these extraordinary Champions of our industry.

Michael Galiazzo, Ph.D.

Michael Galiaggo

President, RMI

# 2018 GRAND CHAMPION OF MARYLAND MANUFACTURING: ARIS MELISSARATOS



Aris Melissaratos is RMI's 2018 Grand Champion of Maryland Manufacturing. This top Champions award goes to one individual who best exemplifies "championing Maryland manufacturing."

Melissaratos represents the highest caliber of success in improving the lives of Marylanders. He is a Maryland treasure, a renaissance man. He has the unique knack of knowing how to draw on complex bodies of knowledge to solve specific problems. And for that, we are all grateful as we have all benefited.

He is a Romanian-born Greek-American engineer, industrialist, aerospace executive, investor, philanthropist, university administrator, author and former government official in Maryland. His 40 plus years of leadership roles represent a legacy of accomplishments that have benefited our State tremendously.

Melissaratos is a tireless champion of people who both contributes to society and helps build communities. He is admired and respected by all who know him not only for his business accomplishments, but because he is always doing good deeds for the greater good of society. He has achieved significant results in every nomination category of the 2018 Champions of Maryland Manufacturing. Melissaratos continues to serve the industry as Chairman of the Board of Directors of the Regional Manufacturing Institute of Maryland, member of the Maryland Economic Development Commission and as Dean, The Brown School of Business & Leadership, Stevenson University.

His vision, values and vitality continue to impact public policy, motivate others and improve the ecosystem of Maryland manufacturing. His incredible achievements span many industries, touched many people and created economic and community development that we celebrate today as unparalleled Maryland assets. Across Maryland, there are tens of thousands of individuals, organizations and communities that have benefited from Melissaratos' most distinguished leadership trait – lifting others. He is a man of kindness with a history of supporting people, encouraging them, coaching them, caring for their welfare and raising their sense of self-worth. Melissaratos leads with his head and lifts with his heart.

All of Maryland's communities, business, education, government and philanthropic, have benefitted immeasurably from this kind and gentle man for all seasons.

### **RMI'S 2018 CHAMPIONS** NOMINATION REVIEW COMMITTEE



RMI's 2018 Nomination Review Committee (left to right) included Kate Williams from M&T Bank, Bob Brennen from Miles & Stockbridge, Ernie Paszkiewicz from Gross Mendelsohn & Associates, Neill Christopher from the Arc NCR and Al Szydlowski from SunTrust Bank.

RMI requested nominations from throughout Maryland for the 2018 Champions of Maryland Manufacturing. A total of 280 nominations were received from every county and Baltimore City in Maryland.

The nomination criteria requested that nominators submit descriptions as to why their champion nominees should be recognized as a 2018 Champion of Maryland Manufacturing. Descriptions were to tell a compelling, results-driven story for their respective nomination categories which included community engagement, emerging leaders, energy and sustainability, growth and productivity, international business, manufacturing technology (industry 4.0), STEM student engagement and talent attraction. Multiple nominations for the same nominee were also considered a plus.

RMI established a five-member Nominations Review Committee (pictured above) to review and rate the 280 nominations that were received over the four-month application period. There were many impressive nominees, and choosing the finalists was not an easy task. After two days of deliberations, the Review Committee made their final votes for the top Champions in each nomination category, and those Champions were then notified that they were selected.

We owe a great deal of gratitude to our private sector volunteers who took time out of their busy works schedules to be on this committee. They did a fantastic job!

RMI is very pleased to present the 39 individuals, manufacturing companies, and others that have been chosen as the 2018 Champions of Maryland Manufacturing. We are also privileged to embrace the many nominees as well as those who made nominations as vital parts of our manufacturing ecosystem.

The goal in selecting the 2018 Champions is part of a much wider effort by RMI to improve the image of Maryland Manufacturing with policymakers, educators, parents and today's youth.

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# NOMINATION CATEGORIES



### **COMMUNITY ENGAGEMENT**

Champions are manufacturing companies that are giving resources, time or talent to help enrich their communities and improve lives where they work.



### **EMERGING LEADERS**

Champions are individuals or organizations that have made a dynamic impact on the future direction of a manufacturing company or the manufacturing industry.



### **ENERGY & SUSTAINABILITY**

Champions are manufacturing companies, individuals or technologies that have significantly increased energy savings or helped to reduce carbon footprint within manufacturing facilities.



### **GROWTH & PRODUCTIVITY**

Champions are organizations or individuals that provided extraordinary leadership resulting in transformative productivity successes for manufacturing companies or for the manufacturing industry.



### **INTERNATIONAL BUSINESS**

Champions are organizations or individuals that have played an instrumental role in attracting overseas manufacturers to Maryland or exporting Maryland manufactured products overseas.



### **MANUFACTURING TECHNOLOGY (INDUSTRY 4.0)**

Champions are a person or organization that has demonstrated the ability to deliver results in digitizing a facet of their manufacturing operations or the operations of another manufacturing company.



### STEM STUDENT ADVOCATES

Champions are individuals, products, projects or organizations that have inspired STEM students to consider jobs in manufacturing.



### **TALENT ATTRACTION**

Champions are organizations or individuals that have played an instrumental role in attracting talent to a manufacturing company or the industry.



**Acadia Windows and Doors** Baltimore County Community Engagement



Acadia Windows and Doors' performance is driven by a "Never Settle" culture. One important way the company lives by this standard is through community involvement. Acadia helps support nearly 100 Greater Baltimore Area families, partners with The Arc of Northern Chesapeake Region to employ individuals with differing abilities, works with Goodwill Industries of the Chesapeake to support job placement, and partners with Folds of Honor to help spouses and children of those disabled or killed while serving our country. Acadia's "Never Settle" culture ultimately drives the company's mission to create products with purpose that support and connect the surrounding community. www.acadiawindows.com



Acadia helps support nearly 100 Greater Baltimore Area families.





### **Blind Industries & Services of Maryland**

Baltimore City Community Engagement



Blind Industries and Services of Maryland (BISM) employs over 700 people, a majority of whom are blind or low vision, at manufacturing locations in Maryland and North Carolina. BISM is Maryland's largest employer of blind people and operates fabric cutting and sewing facilities in Baltimore, Cumberland, Salisbury (two), and in North Carolina in Raleigh where they manufacture military uniforms for the Federal Government. For the State of Maryland BISM produces a wide variety of paper products, including customized paper pads and copy paper, janitorial products, and trashcan liners in their Baltimore and Hagerstown locations. BISM also produces custom label bottled water at their bottling facility in Federalsburg, Maryland. www.bism.org



BISM is Maryland's largest employer of blind people.





# "Never Settle"

Unlike any of its competitors, Acadia manufactures, installs and warranties its products creating a streamlined, worry-free experience for both property management and residents. Our goal is to provide you with the highest-quality products that address your individual needs and exceed your expectations.



Acadia is more than just a manufacturer and installer of windows & doors. One of the most important ways we live by our "Never Settle" culture is being involved in our community where we continue to grow and learn about what is most important every day. Visit us at www.AcadiaWindows.com to learn more.

Active participation on the Board of Directors of Regional Manufacturing Institute has been important to Acadia Windows & Doors. We look forward to future collaborations with RMI and thank them for the opportunity.





### **Hub Labels** Washington County Community Engagement



Hub Labels encourages employees to participate in the community through a committee that drives quarterly departmental outreach programs to support awareness, fundraisers, and volunteer projects though engagement with charitable organizations. Employees, along with company President Thomas Dahbura, raised more than \$12,000 this year and \$24,000 in 2017, contributing funds and volunteer hours of support for the Good Will, Brookes House, Micah's Backpack, Washington County Humane Society, Children in Need, REACH Shelter, Washington County United Way Day of Caring, the American Red Cross, Big Brother and Big Sister Organizations, Paralyzed Veterans of America, Maryland's Adopt a Highway Program, and more. www.hublabels.com



Hub Labels supports awareness, fundraisers, and volunteer projects though engagement with charitable organizations.





### **Manor Hill Brewing**

Howard County Community Engagement

Manor Hill Brewing has raised over \$3 million for Howard County charities and other nonprofits. Owner E. Randolph Marriner, Cystic Fibrosis Foundation president emeritus and board member, founded HoCo Wine Masters in 2002, raising \$3.0 million for CF research; over \$150,000 for ECP flood relief efforts; and funding the ADG Gumbo for Katrina victims, Friends of Patapsco Valley State Park, Ellicott City flood relief's Fund for Art, Gilcrest Hospice Care Taste Events, Howard County Historical Society, Howard County Farm Bureau, Howard County Festival of the Arts, Leadership Howard County, Patapsco Valley Heritage Foundation, Robinson Nature Center, Johns Hopkins Pediatric Center Stanstock Festival, St. Andrews Episcopal Church Annual Pig and Jig, St. Louis Catholic Church and School Malone Family Fundraiser, and Voices for Children. www.manorhillbrewing.com



Manor Hill Brewing has raised over \$3 million for Howard County charities and other nonprofits.





**Pompeian, Inc.**Baltimore City
Community Engagement



For more than 110 years, Pompeian has had the privilege of calling Baltimore home. We care deeply about the people and places that make up this vibrant City – and to demonstrate our passion and commitment, we launched The Olive Branch Project. Over the next 10 years, Pompeian has pledged to donate \$1 million to the City through various Olive Branch Project initiatives. Our flagship initiative, The Living Healthy Program, is designed to teach local students the basics of health and nutrition, and to provide an opportunity to visit Pompeian's facilities to learn about business and various career paths. This program, in collaboration with various nonprofit partnerships, is part of Pompeian's commitment to helping build a better future for our community. www.pompeian.com



# Pompeian has pledged to donate \$1 million to the City in the next 10 years.





**April N. Richardson, Food Opportunity**Prince George's County
Emerging Leaders

Using their personal story of growth, Food Opportunity supports minority and women-owned companies in the food industry that wish to scale into manufacturing. Growing from a broken oven and production of 50 cakes a day, through partnering with larger companies like Starbucks, Wegmans, Nordstrom, Safeway, and QVC, Food Opportunity has built a model of success for themselves and others. Today, they are a full scale manufacturing company with multiple ovens and production space that produces upwards of 2,000 baked goods daily. Committed to job creation and opportunities, the company will partner with the City of Baltimore to hire and train formerly incarcerated persons in baking and coffee manufacturing. www.bakedinbaltimore.com



April Richardson supports minority and women-owned companies in the food industry that wish to scale into manufacturing.





### **Jodie Bollinger, Frederick County** Office of Economic Development

Frederick County Emerging Leaders

Jodie Bollinger of the Frederick County Office of Economic Development has been an advocate and voice for the manufacturing industry for over 20 years. She continues to lead the Frederick County Manufacturers Roundtable, bringing manufacturers together to learn from experts and to tour and learn about each other's facilities. Dedicated to growing the industry, she brings a team approach to retaining County manufacturers and attracting new companies in the industry, partnering with the Maryland Department of Commerce, the Regional Manufacturing Institute of Maryland, the Maryland World Class Consortia, and the Maryland Manufacturing Extension Partnership. She was instrumental in Frederick's manufacturing EARN Grant, and works closely with Frederick County Workforce Services and Frederick Community College in providing customized training programs. www.discoverfrederickmd.com

### Jodie Bollinger has been an advocate and voice for the manufacturing industry for over 20 years.





### Michael Koch, Firefly Farms

Garrett County Emerging Leaders

Mike Koch, President of FireFly Farms, is an emerging leader in Garrett County's agribusiness. FireFly, founded in 2002, is dedicated to excellence and in handcrafted goat cheese sustainable growth. Their cheese, made using fresh, locally-sourced milk from regional family farms, is sold throughout the country. Koch and his company are members of various cheese guilds, and their cheeses have won over 110 national and international awards of excellence. Their two newest cheeses are manufactured for Whole Foods Market, where they will be exclusively available for one-year. Koch mentors fledgling agribusinesses, such as High Country Creamery, manufacturer of cow's milk cheeses, and supports other local agribusiness to distribute their products using FireFly's distribution infrastructure. He is a leader and is establishing best practices for local agribusinesses. www.fireflyfarms.com

Mike Koch mentors fledgling agribusinesses and is establishing best practices in this industry.





### **Notre Dame Preparatory School**

Baltimore County Emerging Leaders



Notre Dame Preparatory School's STEAM program cultivates creativity. problem-solving and entrepreneurial leadership skills through integration of technology, innovative instructional approaches, and real-world learning experiences, inspiring young women to pursue STEM careers as a vehicle for positive change. The Engineering and Manufacturing pathway develops confidence and real-world career skills through interdisciplinary. project-based learning experiences: utilizing a laser cutter and CNC router to design tiny, scale model houses and 3D printers to design and manufacture a full-scale mechanism that assists communities faced with disabilities; experiencing co-curricular opportunities like the ACE Mentor Program and VEX Robotics; and interning with organizations like Whiting-Turner and NASA. Inspired to learn to calculate and reduce individual carbon footprints, STEAM Club and other students participate in a number of conservation activities. www.notredameprep.com

### NDP inspires young women to pursue STEM careers as a vehicle for positive change.





### Vorbeck Materials, Inc.

Howard County Emerging Leaders



Vorbeck is a leader in research, design, development, and manufacturing of graphene-enhanced wearables, conductive inks, high-strength and chemical-resistant rubber and composites, antennas, RFIDs, and nextgen batteries. Their commercial-scale facility produces graphene and manufactures specialized inks, coatings, polymers, and composites for customers in consumer electronics, defense/aerospace, and commercial industries. A major focus is production of thin and flexible communications equipment used to send and receive vital information in clothing and worn accessories, on ground vehicles, and airborne applications such as UAVs. Another concentration is in graphene-enhanced rubber used in Aerospace, Automotive, and Commercial manufacturing, They have also produced a robust RFID tag for PCB manufacturing that is very small and is also able to be printed on for barcode purposes. www.vorbeck.com

A major focus at Vorbeck is production of thin and flexible communications equipment.





# Want to lower your business's energy costs? Let's talk!

BGE's energy efficiency experts are working with businesses, organizations and agencies across Maryland to help them save energy and money. Let us show you how our financial incentives and technical assistance can make your retrofit, equipment replacement and new construction projects affordable. Together we'll implement solutions that will give you a great return on investment.









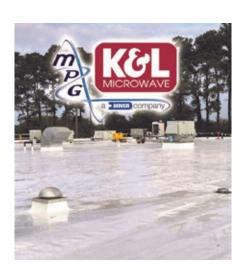
**Dr. Mary Tung, Maryland Energy Administration**Baltimore City
Energy and Sustainability

Mary Beth Tung, Ph.D., Esq. has been an avid leader and influencer advocating the importance of energy efficiency for Maryland's manufacturers for the value it brings to manufacturers' bottom lines and the impact efficiency plays for our environment. Director of the State of Maryland Energy Administration, Dr. Tung works to ensure Maryland's energy portfolio benefits Maryland residents, businesses, and local government organizations by improving the effective use of all Maryland energy. Acting as a conduit for public and private energy partnerships, Dr. Tung helps leverage state resources with private and commercial investments, including the agency's continued investment in RMI's Next Generation Energy Efficiency Gains Program. www.energy.maryland.gov



# MEA advocates the importance of energy efficiency for Maryland's manufacturers.





### **K&L Microwave**

Wicomico County Energy and Sustainability



K&L Microwave is a world leader in the design and manufacture of RF and microwave filters, multiplexers, and integrated assemblies. The company's Environmental Policy, R I C C A (Reduce-Improve-Conserve-Comply-Apply), is known by all employees and provided as a wallet card. K&L has sustained a 20 percent reduction in the amount of coolant disposed of and purchased, recycled an average of 91K pounds per year of scrap brass and aluminum, reduced energy usage by 36.4 percent between 2011 and 2017, and plans to replace HVAC units and building roofs with a white roof to reduce solar heat gain. K&L Microwave's Environmental Management System (EMS) conforms to ISO 14001. www.klmicrowave.com



K&L Microwave reduced energy usage by 36.4 percent between 2011 and 2017.





### **McCormick & Company**

Baltimore County Energy and Sustainability



At McCormick and Company, sustainable manufacturing is one component of a larger corporate social responsibility effort. Creating innovative flavor solutions that translate to about 150 countries and territories around the world takes a passion for problem solving, extraordinary effort and teamwork. It means being mindful of the company's role in supporting the environment by investing in infrastructure to optimize energy performance, as well as reducing solid waste, water consumption, and packaging. The company's greenhouse gas strategy is to focus on energy efficiency and use renewable energy where market conditions are favorable. While many companies believe it is too expensive to be sustainable, McCormick realizes that there are many opportunities for "triple bottom line" investments that are good for the environment, economy, and people. www.mccormickcorporation.com

McCormick realizes that there are many opportunities for 'triple bottom line' investments for the environment, economy and people.





### **STULZ Air Technology Systems**

Frederick County Energy and Sustainability



STULZ, a leader in the design and manufacture of environmental control equipment, produces the STULZ CAH-1080, the industry's leading air handling product for delivering savings on customers' energy bills. STULZ is recognized for sustainability leadership and action. The company implemented an auger-compactor system to consolidate seven tons weekly of packaging wood waste, now incinerated at a power plant for energy recovery instead of going into the local landfill, reducing waste pickup by 80 percent. STULZ switched to LED shop lighting and reduced average daily power consumption nearly seven percent while doubling LUX in the work space. Installation of approximately 2309 solar panels on the roof on their over 200,000sf facility in the City of Frederick generates greater than 20 percent of the total electricity usage. www.stulz-usa.com



STULZ is the industry's leading air handling product for delivering savings on customers' energy bills.



### REGIONAL MANUFACTURING INSTITUTE OF MARYLAND



ANOTHER COMPETITIVE EDGE PROGRAM FOR MARYLAND MANUFACTURERS

### **RMI's Energy Efficiency Program**

\$Cost Recovery for Maryland Manufacturers

Join Maryland's leading manufacturers who have participated in a unique manufacturing services program to free up cash from energy inefficiencies



RMI's State-funded energy efficiency program helps manufacturers being served by Delmarva and PEPCO to reduce energy costs. The program was designed knowing that manufacturers have limited time available to focus on energy, even though its often one of their top four cost items.

Under the grant, eligible manufacturers can benefit from up to \$20,000 worth of engineering services, including an energy assessment of their facility and deep dives into energy intensive processes. RMI will also provide devoted engineering time to help firms access State and utility resources to pay for energy upgrades.

We identify energy upgrade opportunities and then make the saving payback case. Once firms decide what they want to upgrade, RMI can help manage the vendor process ensuring installation is thorough to help reduce energy and save money.

We are evaluated based on how much money we save companies from reduced energy uses. Recently, we saved manufacturers almost \$2 million off their energy bills in the BGE service area. Bottom line - manufacturers that participated in RMI's program discovered new sources of cash, have increased productivity, spend less on energy, and have lower emissions. A win-win-win-win!

### Sampling of Past RMI Program Participants

American Yeast Corp
Berry Plastics
Beynon Sports Surfaces
C-Care
Chesapeake Specialty Products
Cloverland Farms Dairy
Danko Arlington
DAP Products
Eight O'Clock Coffee

Frito Lay GM Baltimore Operations Green Bay Packaging Hamilton Associates

Holmatro USA IM Huber

Ellicott Dredges

Maritime Applied Physics Corp Marlin Steel Wire Maryland Thermoform

MD-VA Milk Producers McCormick & Co

Medifast

Meggitt

Northrop Grumman

Pompeian

Prime Manufacturing Pritchard Brown, LLC Procter & Gamble

Products Support, Inc

Ross Machine Company Smiths Detection

T.W. Perry

Tenax

**Textron Systems** 

Thorlabs Quantum Electronics

Titan Steel

**Tulkoff Food Products** 

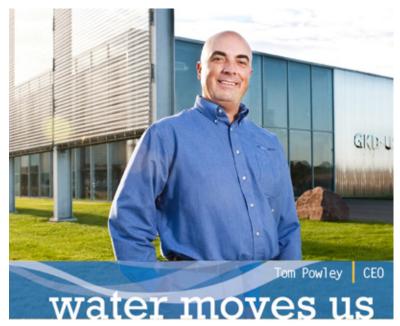
Unilever

**US** Gypsum

W.R. Grace

Zentech Manufacturing

To participate, call RMI's Energy Program Manager Peter Gourlay today at 443-275-2489 or email him at peter.gourlay@rmiofmaryland.com. Find out more at www.rmiofmaryland.com



to Weave a Wire Revolution

At, GKD water moved us to design the world's first mega media marquee from woven stainless steel fabric.



**DORCHESTER** 

**COUNTY** 

**ECONOMIC** 

**DEVELOPMENT** 





### **Williams & Heintz Map Corporation**

Prince George's County Energy and Sustainability



Williams & Heintz Map Corporation has been a map printer for entrepreneurs, government agencies, and map publishers since 1921. Holly Heintz Budd, 4th generation owner, president/CEO, uses green materials and sustainable environmental practices that combine sound business principles with environmental stewardship, including recycling; energy saving; continuous improvement; and nontoxic, renewable materials use. The company has installed a more energy efficient roof, is installing solar panels, has new air compressors and LED lighting, and is updating the heating and cooling systems. Williams & Heintz is a member of the Maryland Green Registry and is registered as ISO 14001: 2015 for "Cartographic Production, Large Form Cartographic Printing and Specialized Map Folding." Williams & Heintz has reduced energy consumption by using a demand response and energy management company. www.whmap.com/environmental-practices

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Williams & Heintz Map Corporation uses green materials and sustainable environmental practices.





### **Eight O'Clock Coffee**

Prince George's County Growth and Productivity



Eight O'Clock Coffee is a top performing, continually improving organization approaching a competitive \$.32/lb. manufacturing cost with zero harm priority. Their "Top Gun" employees are training to become masters of their business and technologies. Reliability and capacity are optimized as they strive to supply defect-free products at the best cost and execute projects flawlessly. They are transforming to withstand adverse production volume and new ways of working to meet new market, product, or people capability or technology needs. Performance and productivity highlights include Walmart Private Label Brand acquisition, 27 percent cost reduction in overhead equating to a \$2.8 million savings, more than \$30 million capital investment for automation within the past few years, and highest rating through BRC certification, while servicing customers at greater than 99 percent. www.eightoclock.com

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Eight O'Clock Coffee achieved 27 percent cost reduction in overhead equating to a \$2.8 million savings.





Marc Berman, Phoenix Mecano, Inc. Frederick County Growth and Productivity



Since Marc Berman joined Phoenix Mecano in 2014 as the Production Manager he has improved production time to plan by an average of 20 percent, reduced router times an average of 15 percent across all operations, added additional manufacturing capabilities including laser engraving, improved surface treatment systems, and added a new product/production line to the company. Average lead times have been reduced by 30 percent. Lean initiatives include the complete reorganization of the production floor to reduce/remove waste and improve workflow, and staff cross training to improve/expand competencies, consistent and standardized processes and documentation. More work is being accomplished resulting in an increase in operations from 100 a day capacity to 200 a day capacity with fewer resources, improved technology, and greater competency. www.phoenixmecano.com

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Marc Berman has improved production time to plan by an average of 20 percent.





Protenergy Natural Foods
Dorchester County
Growth and Productivity



Protenergy Natural Foods drives innovation and provides state of the art packaging designs that produce in a way that achieves shelf stability and best-in-class flavor and performance. Since they opened their doors in 2011, Protenergy has grown from producing a million cases a year to finishing 2017 at 8.3 million cases produced. The company leverages operational excellence to grow their people and their capabilities. Protenergy's latest expansion will launch them into the glass and can ready to drink beverage category nationwide.

www.protenergyfoods.com



Protenergy has grown from producing a million cases a year to finishing 2017 at 8.3 million cases produced.





### RoosterBio, Inc.

Frederick County

Growth and Productivity



RoosterBio was founded in 2013 to radically change how stem cells are made and used by executing to a strategic stem cell manufacturing technology roadmap. RoosterBio products are designed to enhance customers' manufacturing efficiencies and radically streamline product development and stem cell based therapeutics supply chain. The company aims to impact the emerging Regenerative Medicine Industry to the level Intel impacted the computer industry. Championing the concept that stem cells are having a "transistor moment" as a technology segment, RoosterBio has commercialized first-in-class products that demonstrate 10-100X scale enhancements and 10-50X productivity gains compared to existing products. Their products are truly ushering in a new era of productivity in the field, setting the stage for a sustainable Regenerative Industry based on innovations in manufacturing sciences. www.roosterbio.com

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# RoosterBio's products are truly ushering in a new era of productivity in the field.





### **Strouse**

Carroll County

Growth and Productivity



The Strouse Corporation designs and manufactures pressure sensitive adhesive solutions. A 3M Preferred Converter of pressure sensitive adhesive/flexible materials, Strouse solves complex problems for medical, automotive, electronics, industrial, aerospace, and military industries. Known for superior product performance backed by a quality management system registered to ISO 9001:2008 standards and ISO 13485:2016 registration, Strouse's growth is unprecedented with revenue gains of 58 percent in the last three years, 55 percent capacity increase, and a staggering 21 percent improvement in productivity. Continuous focus on productivity, next level automation, and quality allow for double-digit growth projections the next few years, making Strouse a capable global competitor. Susan Chambers, president, recently received the 3M Supplier of the Year for Woman-owned business award highlighting outstanding performance as a 3M supplier. www.strouse.com

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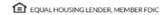
Strouse's growth is unprecedented with revenue gains of 58 percent in the last three years.



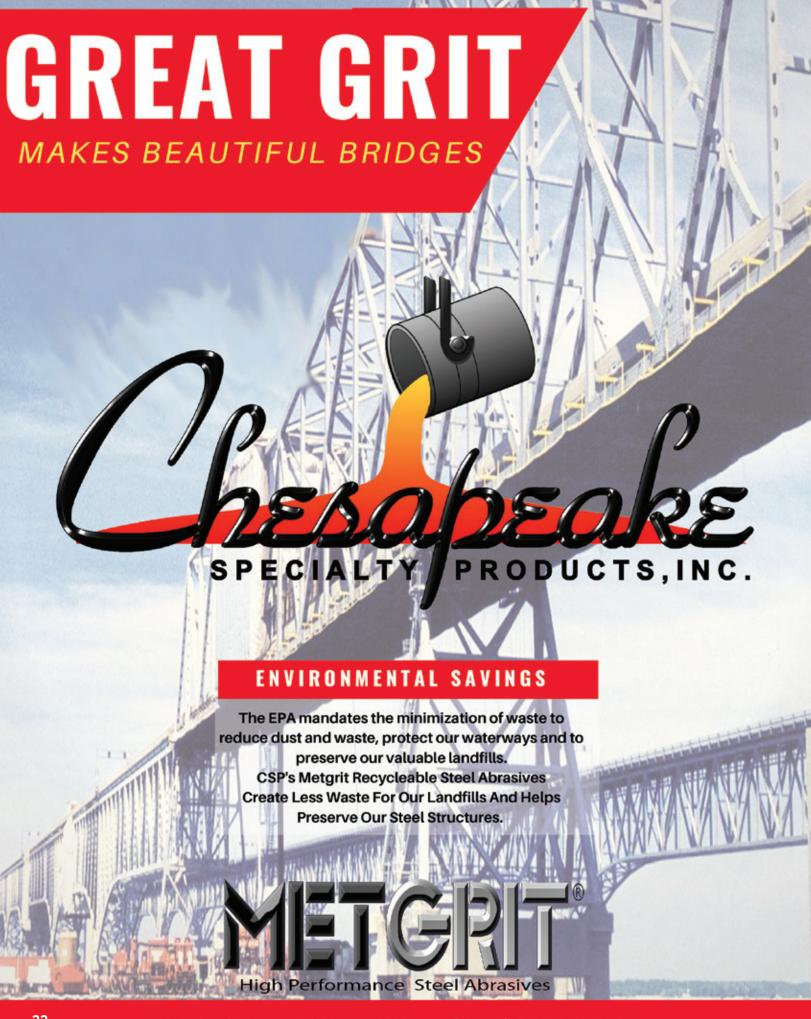


Proud to be a part of this great community.

fnb-online.com | 1-800-555-5455









### **Chesapeake Specialty Products**

Baltimore County
International Business



Chesapeake Specialty Products leadership is visionary and global. Ken Sanchez, president, knew there was international demand for the company's sand foundry additive and worked with the company's team to connect to distributors to sell into foreign markets. Working with the U.S. Commercial Service to promote sales into South Korea, Turkey, Vietnam, and Thailand, the company also utilized an SBA- Export Maryland grant to promote sales to Vietnam and Cambodia. Expanded sales in Europe and Asia diversified revenue streams to maintain Chesapeake's Baltimore County employment base. Company expansion into Turkey and East Asian markets fuels the company forward, contributing to international sales, which comprise 40 percent of overall sales. Chesapeake Specialty Products is the recipient of an Export Achievement Award from the U.S. Commerce Service. www.chesprod.com

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# Chesapeake Specialty Products' international sales, comprise 40 percent of overall sales.





### Deb Kielty & Team, World Trade Center Institute

Baltimore City
International Business



For 30 years Maryland's World Trade Center Institute (WTCI) has empowered manufacturers in the region with new ideas and valuable connections. WTCI believes that sharing knowledge and experiences helps lift the manufacturing community and prepare companies for international success. Programs like the Inside Series allow manufacturers to give outsiders an inside view of their facilities and of what they have been doing to innovate and grow. Professional development programs like WTCI's EDGE and AGILE help seasoned executives connect and learn from one another and form deep networks across industries. Deb Kielty and the WTCI team work tirelessly to connect companies to resources needed to find success in a complex and increasingly global marketplace and economy. www.wtci.org



WTCI empowers manufacturers in the region with new ideas and valuable connections.





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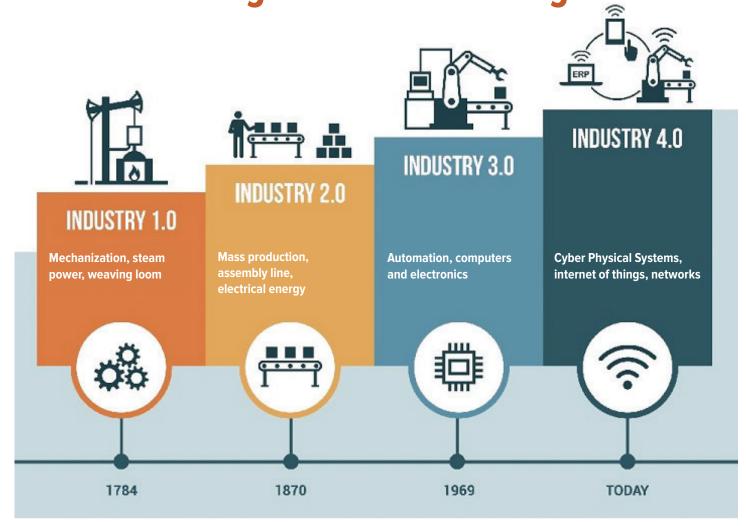
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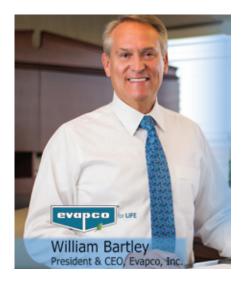


Working Together to Champion the Image of Manufacturing



# **Investing In The Future**

CONNECT WITH VICKI FRANZ, 195 BUSINESS PUBLISHER/FOUNDER TO LEARN MORE: Vicki@i95business.com



**Evapco, Inc.**Carroll County
International Business



Evapco, Inc. is a global designer and manufacturer of products for Commercial HVAC, Industrial Refrigeration, Power Generation and Industrial Process. Founded in 1976, Evapco became employee-owned in 1984 and now manufactures products in 23 locations in 10 countries around the world employing over 3,000 people. In 2017, the Taneytown world headquarters expanded by adding a new 160,000 sq. ft. building; the expansion will add 125 new jobs over the next five years. EVAPCO, Inc.'s powerful combination of financial strength and technical expertise has established the company as a global industry leader. Its Wilson E. Bradley Research Center is a 60,000 square foot facility that is among the largest and most advanced of its type in the world in the HVAC and refrigeration industries. www.evapco.com



# Evapco manufactures products in 23 locations in 10 countries around the world.





### Sisu Global Health

Baltimore City International Business

Sisu Global Health, a medical device company for emerging markets, is proud to be a Baltimore-based company with global reach. Its Maryland-manufactured Hemafuse, Sisu's flagship product, as well as other portfolio devices, are assembled in Baltimore by Harbor Designs and Manufacturing, has begun sales in Africa. With an international focus, the company has begun sales in Africa and in the upcoming years expects to sell Hemafuse and other Sisu portfolio products across Africa and emerging markets. Gillian Henkler, president, and team have built the company from a 3D printed idea to a fully manufactured product. Named Baltimore's 2016 Technologist of the Year, Henkler is committed to promoting women in STEM. The company intends to grow and to expand their manufacturing footprint here in Maryland. www.sisuglobal.health



Sisu has begun sales in Africa. Their medical device products are assembled in Baltimore by Harbor Designs and Manufacturing.



**Lion Brothers**Baltimore County

Manufacturing Technology/Industry 4.0



Lion Brothers, led by CEO Susan Ganz, has been transformed into an international leader in the design, fabrication, and sales of a wide range of identity and branding products across a range of markets after more than 100 years of conventional manufacturing of embroidered products. The entire product lifecycle was recently re-invented introducing digital design and advanced manufacturing to significantly improve new product development to better match the needs of global customers in areas including professional and collegiate sports, membership and affinity organizations, resort and entertainment, and commercial and government uniforms. Based in Owings Mills, Lion Brothers is a leader in digital manufacturing innovation with state-of-the-art domestic and Far East production facilities, supporting clients around the world with efficiency, productivity, and consistency. www.lionbrothers.com

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Lion's entire product lifecycle was recently re-invented introducing digital design and advanced manufacturing.





Michael Raphael, Direct Dimensions
Baltimore County
Manufacturing Technology/Industry 4.0



Direct Dimensions, led by Founder and CEO Michael Raphael, has pioneered methods and solutions for 3D scanning, working across industries – aerospace, automotive, art, architecture, military, museum, medical, and movie VFX. Direct Dimensions is a world leading 3D scanning firm, based in Maryland. Industry 4.0 demands digital data for manufacturing. Direct Dimensions digitally captures real world objects, parts, tools, and spaces to create highly accurate 3D design data for manufacturing and analysis. Their 3D technology enables engineers, architects, and even doctors to work with accurate, physical world reality-based 3D digital data. Direct Dimensions regularly 3D scans planes, trains, and automobiles for re-engineering; buildings and facilities for architectural re-design; parts, tools, and molds for quality control; and even A-list Hollywood actors for the biggest movies ever made. www.directdimensions.com



Michael Raphael pioneers methods and solutions for 3D scanning, working across industries.



# LIONBROTHERS IDENTITY MATTERS

Lion Brothers congratulates the 2018 RMI Champions of Maryland Manufacturing.

> We are proud to be a part of the Maryland Manufacturing Community.

Lion Brothers is the leading designer and manufacturer of apparel brand identity.

Since 1899, Lion has been telling the story of identity and belonging with exceptional products made in Maryland.

Today, Lion is a company focused on integrating creative design with scientific and technological advancements to create new innovations for the world's most notable apparel brands, corporations and not-for-profit organizations.



Mick Arnold, Arnold Packaging Baltimore County Manufacturing Technology/Industry 4.0



Arnold Packaging specializes in cutting-edge packaging solutions for commercial and industrial customers. Their unending investment in technology gives them state-of-the-art packaging automation equipment for processing and applying advanced tracking technologies. Arnold Packaging's equipment and machines increase customer efficiency and reduce labor costs. Earlier this year Mick Arnold, president, accepted a Maryland Department of Commerce Secretary's Citation in recognition of the company's "superior custom-made containers and efficient distribution services" and commitment to 100 percent customer satisfaction. Made in Baltimore also recognized the company as "Maker of the Month." In February, Arnold Packaging announced its acceptance to the Marvland Green Registry for sustainability practices and commitment, acknowledging its own green manufacturing practices and dedication to helping customers make sustainable products. www.arnoldpackaging.com

State-of-the-art packaging automation equipment for processing and applying advanced tracking technologies.





**Regional Additive Manufacturing** Partnership of Maryland (RAMP MD)

Harford County

Manufacturing Technology/Industry 4.0



The Regional Additive Manufacturing Partnership of Maryland (RAMPMD) organization promotes the research and development of advanced processes of joining materials to make objects from 3D model data, usually layer upon layer as opposed to subtractive manufacturing methodologies, such as traditional machinery. This process is also known as additive manufacturing, which encompasses 3D printing, rapid prototyping, rapid manufacturing, just in time, digital manufacturing, and additive fabrication. RAMPMD is a model public-private partnership with tangible benefits for both government and industry, creating more than 244 jobs in Maryland during the last four years. RAMPMD builds partnerships with industry, expands additive manufacturing education, conducts awareness and outreach, and ensures a supportive infrastructure. www.rampmd.org

RAMP MD promotes advanced processes of joining materials to make objects from 3D model data.





# **Stanley Black & Decker Hampstead Manufacturing Facility, Connected Factory**

StanleyBlack&Decker

Carroll County

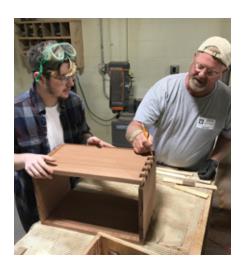
Manufacturing Technology/Industry 4.0

Stanley Black & Decker's Hampstead Powder Metal Manufacturing Facility, Connected Factory has been a pilot plant for the Industry 4.0 initiative. Ann Fagan, plant manager, and the rest of the team there have implemented systems and programs that increase productivity and quality of product, have embraced new technology, and have been pioneers for testing and validating systems that will eventually be scaled across the organization globally. The Hampstead Manufacturing Facility's dedication to improving and staying competitive exemplifies Stanley Black & Decker's standard for innovation and design in its industry. www.stanleyblackanddecker.com

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# Hampstead Powder Metal Manufacturing Facility, Connected Factory has been a pilot plant for the Industry 4.0 initiative.





# AMP, an Untangled Minds Program at Caroline County Public Schools





The Advanced Manufacturing Professionals (AMP) Program of Caroline County Public Schools was developed with the support of the Untangled Minds Foundation, the brainchild of Alan Stein, founder of Tanglewood Conservatories in Denton, MD. The AMP program goes beyond the typical career and technology center manufacturing program. In addition to technical education, students learn about time and project management, cost estimating, team building, quality improvements, communication and presentation, and marketing. A blend of modern manufacturing processes and soft skills training that employers need, AMP's multi-disciplinary approach to project-based learning brings real-world experience into the classroom, providing opportunities for students seeking a career in manufacturing to experience the industry first hand.

www.untangledminds.org

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The AMP Program brings real-world experience into the classroom.







# We're proud to support Maryland manufacturers.

Congratulations to the 2018 Champions of Maryland Manufacturing!

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### For more information, contact:

Doug Kendzierski, Transportation Technology Chair, 443-840-5913 or dkendzierski@ccbcmd.edu

Jaime Alvarez, Engineering Chair, 443-840-5904 or jalvarez@ccbcmd.edu







### **Citywide Youth Development**

Baltimore City STEM Student Advocates



Citywide Youth Development's mission is to provide relief of the poor, distressed, and underprivileged by encouraging entrepreneurship education, providing vocational skills training and education, including in STEM disciplines needed for product development and production and the operation of business enterprises. Citywide uses entrepreneurship and manufacturing skills training and development as a crime prevention, poverty eradication, and community revitalization strategy. A nonprofit established in 2010, Citywide has created over 100 entrepreneurship and job opportunities and established three youth-run enterprises, including Made In Bmore, a fashion brand and retail store in Towson Town Center: CityWide Screen Printing & Embroidery that partners with the Baltimore City and Under Armour; and Frozen Desert Sorbet, the largest mobile cart company in Maryland, currently located in Oriole Park.

www.citywideyouthdevelopment.org



### Citywide uses entrepreneurship and manufacturing skills training and development.





### **Community College of Baltimore County, CAMM Program**

Baltimore County STEM Student Advocates



The Community College of Baltimore County's CAMM (Computer-Automated Manufacturing) provides experienced and beginner level skills in the CCBC Catonsville machining laboratory through hands-on projects and web-enhanced learning. The college offers certificates in Manual Machining, CNC Operations, CNC Programming, and Quality Assurance. Entry level students in CCBC's CNC Machine Tool Short-Term program acquire approximately two years of experience in six months. Many students graduate with several job offers starting around \$35K. CCBC's CAMM program is accredited by the National Institute for Metalworking Skills (NIMS) and many courses are aligned to NIMS standards. A DLLR Apprenticeship Ambassador, the college is also a related instruction provider for registered apprenticeships. At the HTEC 2018 Conference CCBC's Stirling Engine project won the best CNC Student Learning Project. www.ccbcmd.edu



The CAMM Program provides experienced and beginner level skills, hands-on projects and web-enhanced learning.





## STAR Academy, Tim Rhode and Ed Mullin

Baltimore County
STEM Student Advocates



STAR Academy (Science, Technology, Art and Robotics), created and led by Tim Rhode and Ed Mullin, is Baltimore's new technology training center. Professional coaches at the indoor facility use robotics, drones, 3D printing, virtual reality, and video game development to inspire imagination and develop 21st century skills and experience leading to scholarships and job offers. Training programs, memberships, leagues, courses, camps, and activities are offered for students of all age. The center is more than 16,000 square feet with training labs and practice space for each activity, including an indoor drone arena! Corporate parties, birthday parties, field trips and activities are also available. STAR Academy also provides coaching and training programs off-site for many area schools and recreation centers along with summer and holiday camps. www.star-academy.com

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# STAR Academy inspires imagination and develops 21st century skills.





### **Tracye Johnson, Local Motors**

Prince George's County STEM Student Advocates



Tracye Johnson of Local Motors, manufacturer of the 3D printed Olli Self-Driving Electric Shuttle, bridges STEM, the workplace, and education to manufacturing and technology careers for thousands of students through partnerships with Prince George's County schools, colleges, camps, churches, and nonprofits. Johnson's "Helping Hands Holiday" teaches entrepreneurship for STEM initiatives; students design, print, customize, and package ornaments for fundraisers. GospelTek, an edutainment tool for seniors and undeserved communities, creates awareness of STEM ethics and industry exposure, interest, and skills. Johnson sits on the board of eNable Alliance, a project based learning nonprofit supporting a global volunteer community providing 3D printed prosthetics to children in need. Johnson challenges STEM and non-STEM students to think of real-world, humanitarian STEM solutions to improve quality of life and communities. www.localmotors.com

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Tracye Johnson bridges STEM, the workplace, and education to manufacturing and technology careers for thousands of students.



## **2018 CHAMPIONS**



## **Bobby Patton, Patton Electronics** Montgomery County

Talent Attraction



Bobby Patton, CEO, Patton Electronics, a communications equipment manufacturer, is exemplary in volunteer services to expand the manufacturing economy and encourage careers in advanced manufacturing. A Maryland Manufacturing Advisory Board member, Patton. also chaired Montgomery College's GT-STEP/STEM program, funded by NSF, which increased STEM majors graduating with an associate's degree over 7 percent and transfers to four-year institutions by over 10 percent three years in a row. Patton regularly employs student interns, including students from Capitol Technology University and Montgomery College; has been recognized by Drexel as co-op employer of the year, by York College for employing more co-op students than any company in its 23 year old program, and by Montgomery County Public Schools for accepting high school student interns 10 years in a row. www.patton.com

Bobby Patton has been recognized by Montgomery County Public Schools for accepting high school student interns 10 years in a row.





### Paragon Bioservices, Inc.

Baltimore City Talent Attraction



Paragon Bioservices is an industry-leading contract development and manufacturing organization for cutting-edge biopharmaceuticals, focusing on transformative technologies, including gene therapies, nextgeneration vaccines, oncology immunotherapies, and other complex biologics. Headquartered in Baltimore City, the company has retained Paragon's core scientific talent while expanding its leadership team, which has a proven track record in GMP manufacturing. Paragon's business strategy delivered more than 80 percent revenue growth in 2017. Within three years, Paragon grew its workforce from 100 to over 300 employees, becoming one of the fastest growing biotechnology companies and one of the top private employers in Maryland. Continuing rapid growth, Paragon established a new 150,000 square-foot facility in Anne Arundel County, estimating it will hire more than 200 employees there over the next three years. www.paragonbioservices.com

Paragon grew its workforce from 100 to over 300 employees, becoming one of the fastest growing biotechnology companies in Maryland.



## **2018 CHAMPIONS**



### **Strategic Factory**

Baltimore County Talent Attraction



Strategic Factory plays an ongoing and active role in attracting new talent to the print manufacturing community. CEO Keith Miller started in print with just two employees in 1999. The company now consists of more than 150 team members and continues to grow and hire at an accelerated pace. Strategic Factory's Human Resources Department is active in recognizing, supporting, and recruiting new talent, participating in print curriculum development advisory meetings and multiple mock interviews at local Vo-Tech high schools. The team mentors vocational students in the industry and assists in their educational pursuits. Team members have volunteered to judge SkillsUSA's Regional and State Print Competition. Additionally, Strategic Factory has offered numerous internships to Vo-Tech and engineering students over the years. www.strategicfactory.com



Strategic Factory mentors vocational students in the industry and assists in their educational pursuits.





### **Textron Systems**

Baltimore County Talent Attraction



With sites in Maryland and around the world, Textron Systems has supported U.S. and allied militaries for more than 50 years, establishing the company as an aerospace and defense leader. Textron Systems begins molding high-potential talent before students leave the classroom, offering internship and co-op experiences across integrated supply chain, information technology, finance and engineering disciplines. High-performing interns are offered full-time positions, supporting Textron's philosophy of promoting from within and entry level hiring. Entry-level hires participate in Textron Systems' First Year Experience, which accelerates development through training and helps build professional networks with senior leaders and other organizational functions. Textron Systems also sponsors programs to accelerate experience and learning to grow emerging manufacturing leaders, helping the company put tomorrow's technology in the world's hands today. www.textronsystems.com



At Textron Systems, high-performing interns are offered full-time positions.



## **2018 CHAMPIONS**



## Worthington Armstrong Venture Harford County

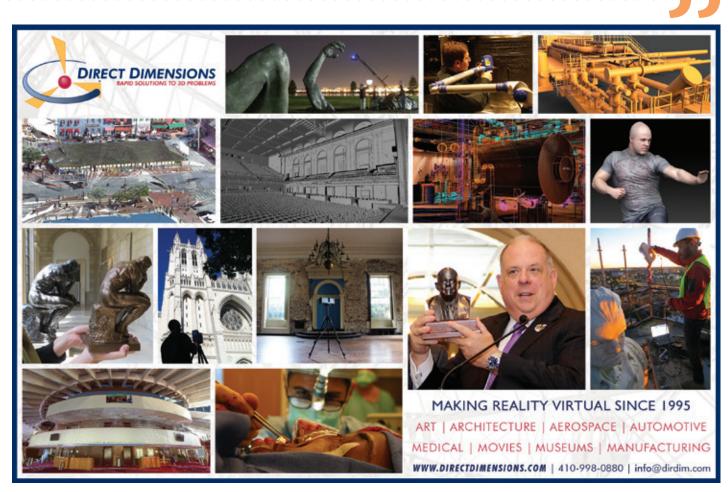
Harford County *Talent Attraction* 



In 2017 Worthington Armstrong Venture (WAVE) implemented an inhouse training program with two training paths – Tool and Die Makers and Maintenance Mechanics then worked with the Maryland Apprenticeship and Training Program to renew a dormant internal apprenticeship program which was approved in March 2018 and currently has two Tool and Die Maker apprentices. As a founding member of the Manufacturers Coalition initiated by Susquehanna Workforce Network (SWN), a resource partner of the Harford County Office of Community and Economic Development, WAVE provided guidance on training needed in the industry for new hires and incumbent workers and enrolled six employees in the first SWN Hybrid Manufacturing Training class. Partnership efforts have resulted in new hires and additional incumbent worker training. www.worthingtonindustries.com

"

## WAVE renewed a dormant internal apprenticeship program which was approved in March 2018.





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and their work in the industry

## CONGRATULATIONS

2018 Champions of Maryland Manufacturing

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There were many impressive nominees for the 2018 Champions of Maryland Manufacturing, and choosing the finalists was not an easy task. While the nominees below were not the finalists, we are privileged to embrace them as well as those who made nominations as vital parts of our manufacturing ecosystem.

Abrar Solatch, Trinity Sterile, Inc.

Queen Anne's County

**Advanced Thermal Batteries, Inc.** 

Carroll County

**Advanced Vision Systems, Inc.** 

Charles County

Allen Frydenberg, Automated Precision, Inc.

Howard County

Amanda Gianotti, Allogram, Inc.

Baltimore County

**American Computer** Development, Inc.

Frederick County

**Andrew Sherman, American Bully Manufacturing** 

Anne Arundel County

**Anne Arundel Community College, Mechatronics Program** 

Anne Arundel County

**Annette Walter, Timber Industries** 

Baltimore County

**AstraZeneca** 

Frederick County

**At Night Athletic** 

Baltimore County

**Baltimore Fabrication, Inc.** 

Baltimore City

**Baltimore Museum of Industry** 

Baltimore County

**Beitzel Corporation** 

Garrett County

**Bend CAM** 

Frederick County

**Berry Plastics** 

Baltimore County

**Bomboy's Candy & Ice Cream** 

Harford County

**Brian Briggs, Maryland** 

**Manufacturing Advisory Board** 

Baltimore County

**Cambridge International** 

Wicomico County

**Canam Steel Corporation** 

Frederick County

**Cardinal Scientific** 

Charles County

**Carroll County Career &** 

**Technology Center, Applied Mechanical** 

Engineering

Carroll County

Chris Maclarion, Maryland Department of Labor, Licensing & Regulation

Baltimore City

**Cindy Brown, API Source** 

Prince George's County

**Community College of Baltimore County** 

Baltimore County

**Control Cable, Inc.** 

Baltimore County

**Craig Bandes, Pixelligent** 

Baltimore City

**Crystal Steel Fabricators, Inc.** 

Caroline County

**D. Wheatley Enterprises** 

Harford County

**Dairy Maid Dairy, LLC.** 

Frederick County

**Dixon Valve and Coupling Apprenticeship Program** 

Kent County

**Dominion Energy, Cove Point Terminal** 

Calvert County

**Dunlop Protective Footwear** 

Harford County

**Eastman Chemicals** 

Queen Anne's County

**Eddie Heath's Crab Pots** 

Somerset County

**EFC Systems, Inc.** 

Harford County

Ellen Breidenbaugh, ACS Industrial Services

Baltimore County

**Ellicott Dredges** 

Baltimore City

**ELM** 

Baltimore County

**ELTA North America** 

Howard County

**Emergent Biosolutions** 

Baltimore City

**FR Conversions** 

Carroll County

Fred "Mark" Gleaton, Thorlabs Quantum Electronics, Inc.

Howard County

Frederick County Office of Economic Development, Craft Beverage Growth Program

Frederick County

**Fuchs North America** 

Carroll County

**Galaxy Control Systems** 

Frederick County

**George Tunis, Hardwire, LLC** 

Worcester County

Gillian Henker, Sisu Global Health

Baltimore City

**GM Baltimore Operations** 

Baltimore County

**Green Bay Packaging** 

Baltimore County

**Guinness Open Gate Brewery** and Barrel House

Baltimore County

**Hagerstown Community College** 

Washington County

**Harbor Designs & Manufacturing** 

Baltimore City

**Heritage Printing & Graphics** 

Charles County

Holly Budd, William & Heintz Map Corporation

Prince George's County

Holmatro, Inc.

Anne Arundel County

I Value LED

Dorchester County

**InSource Solutions** 

Baltimore County

Iron World Manufacturing, LLC

Howard County

**Jack Williams, The Nelson Company** 

Baltimore County

**Jayfus Doswell, Juxtopia LLC** 

Baltimore City

Jim Burnette, Alliance Engineering

Howard County

John Danko, Danko Arlington

Baltimore City

Jon Rowley, RoosterBio, Inc.

Frederick County

Junior Achievement of Central Maryland

Baltimore County

Juxtopia, LLC

Baltimore City

Kimberli O'Connell, Phoenix Mecano, Inc.

Frederick County

**Knorr Brake Company** 

Carroll County

**Kurt Parsons, Platform Aerospace** 

St. Mary's County

**LaMotte Chemical Products Company** 

Kent County

**Lehigh Cement Company** 

Carroll County

Luke Chow, Prime Manufacturing

Technologies, Inc.

Howard County

M. Luis Products

Baltimore City

**Macrogenics** 

Montgomery County

Marwan Moheyeldien,

**Maryland Packaging** 

Howard County

**Maryland Department of Commerce** 

Baltimore City



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**Maryland Performance Diesel** 

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**Maryland Plastics** 

Queen Anne's County

**Maryland World Class Consortia** 

Harford County

**MD MEP, Apprenticeship** 

Howard County

MedImmune, LLC

Montgomery County

Michael Ratchford, W. L. Gore & Cecil **County Economic Development** 

Cecil County

**Mid-Atlantic Region MBDA Advanced Manufacturing Center - Baltimore** 

Baltimore City

**Mobern Lighting** 

Howard County

**Murray Corporation** 

Baltimore County

N. Scott Phillips, Mid-Atlantic MBDA Advanced Manufacturing Center -

**Baltimore** 

Baltimore City

**Nichole Mihalos, Untangled Minds Foundation** 

Caroline County

**NRL & Assoicates, Inc.** 

Queen Anne's County

Patriot Technologies, Inc.

Frederick County

Peter Bowe and Eddie Resende.

**EDGE Program** 

Baltimore City

**Phoenix Mecano Inc., Tefelen** 

Frederick County

**Pixelligent** 

Baltimore City

Plasipak Packaging, Inc.

Harford County

**Plymouth Tubing** 

Wicomico County

**Potomac Photonics** 

Baltimore County

**Premier Elevator Cabs** 

Charles County

R.J. Yates Welding Service, Inc.

Charles County

**Root3 Labs** 

Baltimore County

**Shay Curry, Eaton** 

Prince George's County

**Shelly Brown, Galaxy Control Systems** 

Frederick County

**Shelter Systems Limited** 

Carroll County

Smucker's Quality Beverages Division,

J. M. Smucker Company

Harford County

Stacy Stube, Fashions Unlimited, Inc Baltimore City

**Stephanie Discepolo, Howard County Public Schools** 

Howard County

**Tanglewood Conservatories, Ltd** 

Caroline County

**Teledyne Energy Systems** 

Baltimore County

**Tenax Corporation** 

Baltimore City

The Arc Northern Chesapeake Region,

Harford County

**The Project Resource Group** 

Baltimore County

**The Whalen Company** 

Talbot County

**Timber Industries** 

Baltimore County

**Todd Sabin, Maryland Department of Commerce** 

Baltimore City

**Tri-State Hub Supply Chain Roundtable** 

Washington County

**Untangled Minds Foundation** 

Caroline County

Urvashi Shah, ELM

Baltimore County

VTI of Maryland, Inc.

Washington County

**Washington County Department of Business Development** 

Washington County

WETATI

Prince George's County

Zentech Manufacturing, Inc.

Baltimore County





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Our culture is one that's invested in the idea that it's not about us - it's about you and what you're trying to create.





















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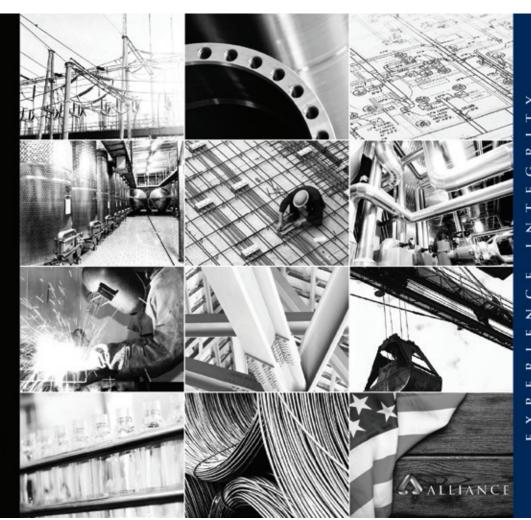






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Baltimore Development proudly supports RMI's Champions of Maryland Manufacturing

## **CONGRATULATIONS** to all the Baltimore City winners

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The Baltimore Development Corporation offers programs and resources to help businesses of all sizes grow and thrive in the city. Visit www.baltimoredevelopment.com for more information on how we can help you.



## GET TOGETHER

Eight O'clock Coffee has relaunched its brand in an effort to break away from the traditional assumption that coffee's only purpose is to help people re-fuel or savor time alone. Eight O'clock Coffee aspires to show a new generation of coffee drinkers that sharing a cup is about spending more quality time with the people you love. Time spent with each other over a good cup of coffee fosters togetherness, belonging and intimacy, encouraging their new tagline, "Get together Around Eight O'clock Coffee".





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Key employers include a host of world-class companies such as Amazon, General Electric, W.L. Gore, IKEA, and Orbital ATK. Cecil County has a diverse industry base due to the county's skilled workforce, supply of dynamic industrial sites ranging from 1 to 100 acres, and excellent transportation infrastructure.

Contact us to find out how we can help your business grow.

CECIL COUNTY

Economic Development

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## GREEN BAY PACKAGING, INC.

Congratulates RMI Chairman
Aris Melissaratos

on the 2018 Maryland Grand Champions Award as well as the top winners of the 2018 Champions of Maryland Manufacturing

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## Congratulations to the 2018 Champions of Maryland Manufacturing.

Imagine a bank that actually helps you and your business get what you want. By investing our time, energy and resources into one business after another, one family after another, we help to assure that the communities we serve will remain great places to live and work. When you're ready for simplicity, transparency and a quick response, you know who to call.



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## Promoting the STRENGTH and DIVERSITY of MARYLAND PRODUCTS!

TPRG's Maryland With Pride congratulates RMI's Champions of Maryland Manufacturing. Very special thanks to the 2018 Champions, to the organizations and individuals nominated, and to the Regional Manufacturing Institute of Maryland for raising public awareness of Maryland's stellar manufacturing industry.

TIPIRIG THE PROJECT RESOURCE GROUP Home of Maryland With Pride

## WWW.MARYLANDWITHPRIDE.ORG



SC&H Group congratulates the 2018 Champions of Maryland Manufacturing.

POWERFUL MINDS. PASSIONATE TEAMS. PROVEN RESULTS.





MD MEP is pleased to celebrate an exciting five years of supporting Maryland manufacturers. In 2013, under the NIST Hollings Manufacturing Extension Partnership, we set out to provide high-quality programs and services to help Maryland's manufacturers succeed, and to create a more organized and cohesive community surrounding these businesses and their stakeholders. Over the last five years, through these services, programs and statewide partnerships, our clients have reported a total of more than \$250 million of economic impact — in addition to more than 1,600 jobs created or retained.

Thank you to our partners and the entire Maryland manufacturing community for the continued support. We look forward to another five years of making Maryland manufacturers stronger, smarter and more profitable!

\$252,277,144

Client Reported Economic Impact



### **New Sales**

MD MEP clients reported \$42.8 MILLION in new sales.



### **New Investments**

MD MEP clients invested \$65 MILLION into their businesses.



### **Retained Sales**

MD MEP clients retained \$128 MILLION of sales.



## **Cost Savings**

MD MEP clients reported \$16.7 MILLION of cost savings.



### **Created Jobs**

MD MEP clients reported 368 manufacturing jobs created.



### **Retained Jobs**

MD MEP clients reported 1,304 manufacturing jobs retained.



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winning playbook?

2 Right People Do you have the key players to win?



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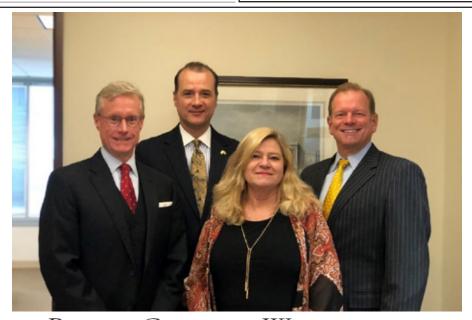
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"Wishing RMI Continued Success in 2019!"

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## **Maryland** Manufacturing Facts

Manufacturers in Maryland account for 5.9 percent of the total output in the state, employing 3.7 percent of the workforce. Total output from manufacturing was \$23.41 billion in 2017. In addition, there were 103.5 manufacturing employees in Maryland in 2017, with an average annual compensation of \$84,969 in 2016.

## **Manufacturing Output and Firms**

Total Manufacturing Output (\$billions, 2017) (Percent share of total gross state product)

\$23.41 5.9%

Manufacturing Firms in Maryland (2015)

2.824

## **Employment and Compensation**

Manufacturing Employment (2017) (Percent share of nonfarm employment)

103.5 3.7%

Average Annual Compensation (Manufacturing, 2016) (Nonfarm Businesses, 2016)

\$84,969 \$49,162

Sources: U.S. Bureau of Economic Analysis and the U.S. Census Bureau

**Figure 1:** Maryland Manufacturing Output, in Billions of Dollars, 2005–2017

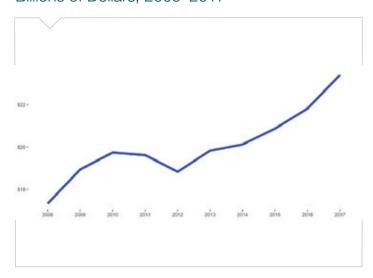


Figure 2: Top 10 Maryland Manufacturing Sectors, in Millions of Dollars, 2016

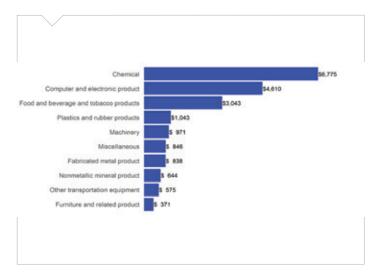
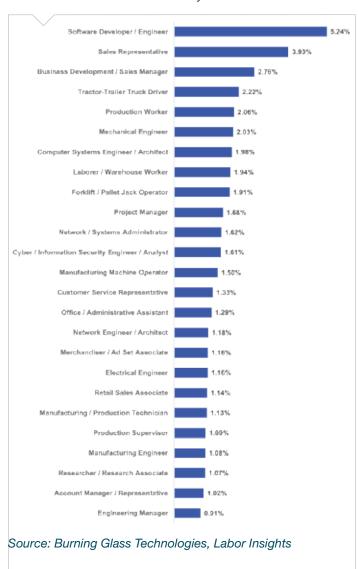


Figure 3: Top 25 Manufacturing Job Titles over the Past 12 Months in Maryland

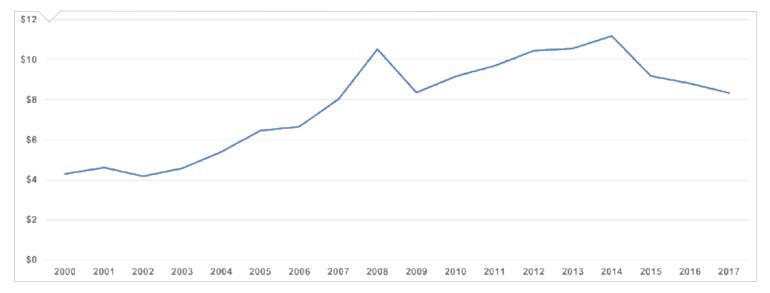


## **Maryland** Export Facts

Manufacturers help to drive Maryland's economy, with \$8.34 billion in manufactured goods exports in 2017. That same year, \$2.83 billion in exports was with our free trade agreement (FTA) partners. This helps create jobs in the state, and 13.2 percent of its employment stemmed from exports in 2011. Small businesses comprised 88 percent of all exporters in Maryland.

Manufactured Goods Exports (\$billions, 2017) (Percent share of total goods exports)	\$8.34 89.5%	Manufactured Goods to Free Trade Agreement Partners (\$billions, 2017) (Percent of total exports, 2017)	\$2.83 33.9%
U.S. Jobs Supported by Goods Exports (2016)	40,941	Total Manufactured Goods Exports	
Employment from Manufacturing Exports (Export share of manufacturing jobs, 2011)	13.2	to Canada and Mexico (NAFTA, 2017)	\$1.81
Small Business Share of Total Exporters (2015)	88%	Top Five Export Markets (Percent of total manufactured goods exports, 2017)	39.9%
Sources: International Trade Administration, U.S. Census Bu	reau	<ul> <li>Canada (17.44%)</li> <li>Germany (7.20%)</li> <li>United Kingdom (5.33%)</li> <li>France (5.00%)</li> <li>China (4.89%)</li> </ul>	

Figure 4: Maryland's Manufactured Goods Exports, in Billions of Dollars, 2000-2017



### **Additional Trade Facts**

- The 20 U.S. FTA partners purchased nearly 48 percent (\$637.5 billion) of U.S. manufactured goods exports in 2017 –
  even though these countries represent only six percent of the world's population and 10 percent of GDP.
- FTA countries: Australia, Bahrain, Canada, Chile, Colombia, Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Israel, Jordan, Mexico, Morocco, Nicaragua, Oman, Panama, Peru, Singapore and South Korea.
- Visit www.nam.org/statedata or www.nam.org/trade for more information.

Revised October 2018

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MID-ATLANTIC REGION MBDA AMC - BALTIMORE

Two years ago the Mid-Atlantic Region MBDA Advanced Manufacturing Center - Baltimore and RMI started on a mission to identify and engage minority owned manufacturing firms. Our role has been to serve as industry advocates and to assist these firms in gaining access to capital, contracts, domestic and global markets, strategic consulting, and specialized training. The center has engaged more than 30 minority manufacturers as clients and helped them create and retain over 150 jobs. Our clients secured capital and contracts in excess of \$20 million dollars. We are proud to count among the many 2018 Champions of Maryland Manufacturing nominees six of our clients, with two award winners.

## Congratulations RMI Champions of Manufacturing!





## **Center Winners**





## **Center Nominees**









If you are interested in becoming a client of the center or would like additional information please visit us at www.Baltimorembda.com





## Partnership Opportunities to Support RMI's Techtonic Shift Initiative:

## Today's Learners, Tomorrow's Workforce

Finding talented workers is a major problem facing manufacturers. This problem is intensified when you factor in the ever increasing need for workers with higher skills due to digitization, the IoT and other Industry 4.0 emerging technologies.

RMI's Techtonic Shift initiative recognizes the disruptive impact of technology, occurring at ever-increasing speeds in today's manufacturing operations accelerating the need for highly-skilled talent and transformational leadership in business, education and government.



The Initiative focuses on engaging tomorrow's manufacturing workforce: students excelling in science, technology, math and engineering. Over the last few years, RMI has engaged student STEM and technology groups and showcased their expertise to Maryland's manufacturing leaders through various events.

These students are not only adept at working with robotics, 3D printing,AI, coding and STEM but they are also passionate about creating products and competing as teams on a global scale. "How do we get connected with manufacturers" was a common concern expressed by those engaged in student after school and school programs. In response, RMI recently provided matchmaking services to connect the student technology teams with manufacturing companies to develop more engaged relationships.

RMI has developed tremendous connections with industry and student STEM clubs and received numerous business commitments to support these student technology programs. There is a tremendous opportunity to build this connection between the manufacturing industry and student technology programs.

RMI seeks your help to facilitate the following services to create a manufacturing workforce pipeline for the future:

- Nurture RMI existing relationships between manufacturers and technology programs
- Provide future career guidance to students from young private sector leaders
- Market technology program successes with RMI to industry
- Facilitate tours at manufacturing plants with technology program and track follow up
- Compile data on manufacturing workforce needs from manufacturing companies
- Create a matchmaking database to bridge student expertise with manufacturing needs

If your company would like to work with RMI to support our Techtonic Shift Initiative, contact Peter Gourlay at RMI today at 443-275-2489.

## IN CLOSING



## **Looking Forward**

As we look to 2019, RMI will continue our Image Campaign as we share news on how manufacturers are impacting our economy. We want our stakeholders to know that while only comprising a small percentage of Maryland's overall business sector, manufacturing continues to have an outsized impact on innovations across multiple industries.

The Champions of Maryland Manufacturing will be important beacons for RMI as we engage them throughout the year to help tell their stories. RMI is launching a news and marketing platform through I-95 Business that will help get this message out and ensure that our policymakers understand the great work that manufacturers do as we encourage support of our industry in Annapolis.

We will provide hands-on help to manufacturers as RMI will continue to help manufacturers showcase their good work through the Maryland Green Registry and help them save money through our energy efficiency program with the Maryland Energy Administration.

Finally, we will continue to help manufacturers prepare for their future growth by plugging them into Industry 4.0 resources, connecting STEM students with manufacturers through our Techtonic Shift initiative, helping to prepare today's learners for the jobs of tomorrow.

If you want to support our manufacturing industry and be part of what we do, we strongly encourage those that are not members of RMI, to join. We need your involvement to continue to grow so that we can continue to grow our Maryland manufacturing ecosystem.

Find out how you can help. Call RMI at 443-275-2489 or visit us at www.rmiofmaryland.com.

Peter Gourlay
Vice President, RMI

## Congratulations

## 2018 Champions of Maryland Manufacturing





Now is the time to **EXPAND** your business in Prince George's County!

## **Prince George's County Champions:**

Emerging Leaders:
April Richardson

Energy & Sustainability:

**Williams & Heintz Map Corporation** 

Growth & Productivity: **Eight O'Clock Coffee** 

STEM Student Advocates: Tracye Johnson, Local Motors





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## KIOW

## great things are happening in Maryland manufacturing.

PNC is proud to support manufacturing businesses in Maryland and to sponsor this Champions of Maryland Manufacturing Tribute.

Michael Smith or David Schwing michael smith@pnc.com --- 410-237-4550 david.schwing@pnc.com --- 410.237.5331 pnc.com



