

THE MBRT WAY: Summer of STEM



Carrie Pannone – State Program Manager



Nona Carroll – Interim CEO



F FORGET

A ACTIVE

S STATE

T TEACH



20-22
minutes



MBRT DREAM TEAM



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MISSION

MARYLAND BUSINESS ROUNDTABLE FOR EDUCATION IS THE CATALYST FOR BUSINESS, GOVERNMENT AND EDUCATION TO DRIVE HIGH STUDENT ACHIEVEMENT THAT ENSURES A COMPETITIVE FUTURE WORKFORCE FOR A WORLD-CLASS ECONOMY.

VISION

Every student a future. Every business a success.



2022-2023 IMPACT

50

schools

25K

students

675

volunteers



7E PATHWAY FRAMEWORK



GAINING DEEPER UNDERSTANDING OF CAREER PATHWAYS OF INTEREST BY:

- ▶ Learning content and skills through real world application
- ▶ Building career skills and knowledge
- ▶ Investigating career and college pathways
- ▶ Developing a plan of action



INTRODUCTION TO THE MBRT WAY

- ▶ Establish courses matter, choices matter
- ▶ Discover career opportunities



DISCOVER YOUR OPTIONS BY:

- ▶ Providing future options
- ▶ Providing a strategy



UNDERSTANDING CAREER INTEREST BY:

- ▶ Leveraging personality and interest tools
- ▶ Meeting industry professionals through hands-on activities
- ▶ Creating a vision for their future, beginning with high school planning



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CONTINUING DEVELOPMENT TOWARD CAREER GOALS BY:

- ▶ Taking part in the job shadowing opportunities
- ▶ Visiting colleges and employers
- ▶ Interviewing industry professionals
- ▶ Preparing for SAT/ACT and the college application process



TAKING FINAL STEPS TO ACCESS COLLEGE AND CAREER OPTIONS BY:

- ▶ Exploring college majors and other "fit" factors
- ▶ Completing applications for financial aid, scholarships and college admissions
- ▶ Finding internships
- ▶ Creating a post-HS transition plan



BUILD YOUR NETWORK:

- ▶ Provide ongoing support and connections
- ▶ Reinvest in the school community



EXPLORE CAREERS



INDUSTRY TOURS



STEM SKILLS




Stand up if...



Summer of STEM





SUMMER OF STEM

FOUNDED IN 1992, THE MARYLAND BUSINESS ROUNDTABLE FOR EDUCATION (MBRE) IS A COALITION OF LEADING EMPLOYERS THAT HAVE MADE A LONG-TERM COMMITMENT TO SUPPORT EDUCATION REFORM AND IMPROVE STUDENT ACHIEVEMENT IN MARYLAND.

2023 [Proposed] SCHEDULE OF EVENTS				
DATE	TIME	EVENT	LOCATION	DESCRIPTION
July 17 - July 20	7:30am - 3:15pm	Saving Our Environment	South River High	This symposium is open to 10th-grade students interested in exposure to engineering, green technologies, and more.
July 31 - Aug 3	7:30am - 3:15pm	Protecting our [Invisible] Borders	North County High	This symposium is open to 10th-grade students interested in cybersecurity, nano-tech, material science, and more.

MBRT Program Pathway

Next Generation Scholars (NGS) started as a state grant program established by Maryland House Bill 1403 (2016), which authorized funding for the Maryland Business Roundtable for Education (MBRE) to provide college and career awareness and readiness services for low-income Maryland students. We have developed a scope of services that help students determine career interests, develop an awareness of how high school and career goals intersect, and learn about various career pathways through workforce/volunteer learning engagements.

Maryland Scholars

- Connecting business employers with students by phone and in-person visits
- Identifying a list of specific career clusters aligned with college and career associations that interests them for their future

Career Focus

- Investigating career and college pathways and needs
- Understanding how industry interests align with local workforce demands
- Building career skills and knowledge through real-world application of high school coursework
- Developing a plan of action career and college bound

Plan

- Taking part in career skill development
- Connecting students with business and college opportunities
- Building college majors and career "fit" factors
- Preparing for the college application process

Take Action

- Determining next step
- Finalizing the college application process
- Completing City programs and set of classes
- Enrolling in work-related courses

For more information: Nona Carroll, Chief Strategy Officer Nona@mbre.org

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- @mbre
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> **"Saving Our Environment" (ENVIRO)** - Climate, Green Energies, Biodiversity, Engineering & More!



> **"Protecting Our Invisible Borders" (CYBER)** - Internet Safety, Coding, Crypto, Hacking, Etc.



> **Anne Arundel County** - Together with business professionals planned daily themes & activities





SUMMER OF STEM



Summer of STEM

\$30K

grant

219

students

30

volunteers



STEMx™

FIELD EXPERIENCES



"We enjoyed bringing teenagers out to the parks. They are one of our least represented groups and getting them outdoors is so important!"

Karen J.

(Anne Arundel Co. Parks)



Student Survey: FUTURE PLANS

65%

FARMS

89%

College

11%

Undecided



Student Survey: TOP CAREERS OF INTEREST

Cybersecurity

**Computer
Science**

Crypto

**Health
Sciences/
Medicine**

Engineering

**Information
Technology**



Student Survey: TODAY I LEARNED...

how to make a
resume to help me
get a job.

- Microplastics because I was able to brainstorm and develop a new idea!
- Field experience at Triton Park because we got to get out of the classroom and do hands-on activities.
- Understanding climate change & ethics, I found it interesting to see a company's decision-making process.
- Cyber is a hidden gem with lots of job opportunities!
- I learned more about cryptology, phishing, coding and hacking techniques.



PARTNERS & VOLUNTEERS



An Exelon Company



SUCCESSSES

- > Partners/Volunteers
- > Met District Need & Funding
- > Real-world Application Skills
- > Student Engagements
- > Project Plan Matrix



CHALLENGES

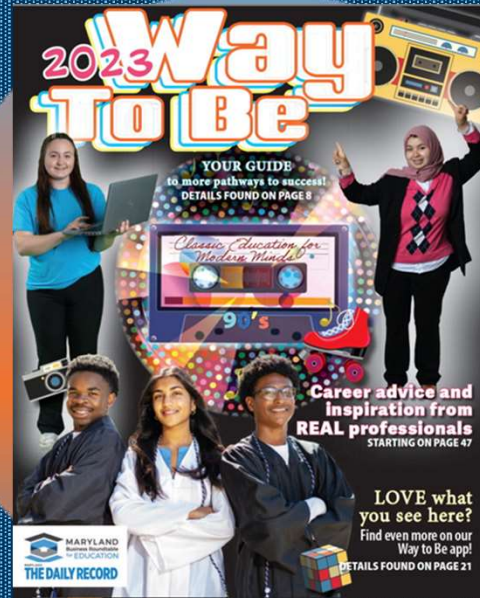
- "Building the plane while flying it"
- Event/Program attendance
- Access/Transportation (district)
- Student Buy-in
- Logistics/Schedule/Site Issues



RESOURCES



[Northrop](#),
[NSA](#), [NASA](#),
[NOAA](#)
[PBS-NOVA](#)
[Defender](#)



[PBS-NOVA](#)
[Capture the](#)
[Flag](#)
[NSA Careers](#)
[Cyber Jobs](#)

lessons magazine videos



USE THE QR CODE FOR A LINK TO A DIGITAL COPY OF THE WAY TO BE MAGAZINE



QUESTIONS/COMMENTS

ASK YOUR TEAM

1. Where are the industry gaps in your area?
2. How can you support or apply for a grant?
3. What partners can help?
4. What are your resources?
5. What's the top priority?



CALL TO ACTION

NOW WHAT?

- Discuss SOS in Small Groups
- Identify one challenge
- Possible solutions & best practices
- Share with the Large Group



THANK YOU!



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<https://mbrt.org/way-to-be/>

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