



26,625 STUDENTS  
55 SCHOOLS

# The Ohio STEM Learning Network Difference



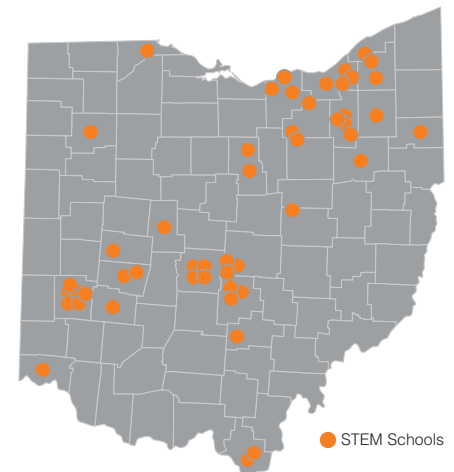


For the Ohio STEM Learning Network, STEM is more than Science, Technology, Engineering, and Math. In the schools we represent, Ohio students are inspired to collaborate across disciplines to successfully solve real-world problems. That is the essence of STEM—students demonstrating knowledge by applying it to real-world situations.

Battelle was a founding partner in Ohio's first STEM school and drove creation of the network. Nearly a decade later, our company still proudly supports these schools for one reason: **The STEM school model pairs career preparation with innovative teaching, college credits, credentials, and local business needs.**

#### STEM schools must:

- 1) Enroll students under an open admissions policy (with no minimum test scores) and match the local community.
- 2) Create meaningful local partnerships with businesses, colleges, and the school district.
- 3) Use teaching methods based on real-world problems (including problem-based learning and design challenges).
- 4) Coordinate with the Ohio STEM Learning Network to facilitate the spread of innovation.



## STEM Schools Serve All Types of Students and Provide More

Unlike some school models, Ohio's STEM schools do not screen out students with academic gaps or serve a small slice of the community. Students graduate from STEM schools at higher rates (90% vs Ohio's average of 84%). STEM schools serve more **economically disadvantaged** and **minority students**, yet still post similar ACT scores.

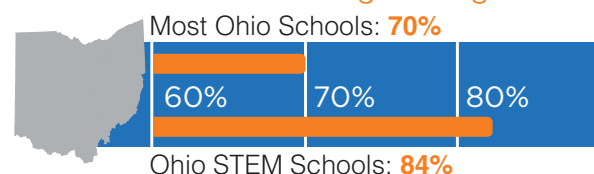
## STEM Means Integrating College and Career

Students earn college credits in high school

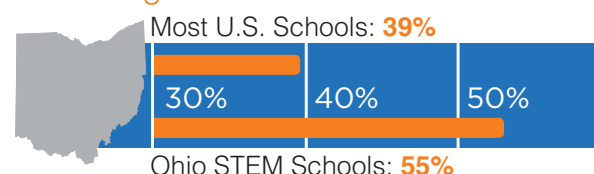
**15,000+**  
College Credits

Saving students more than **\$8.5 million** in estimated tuition costs

Students enrolled in college after graduation



Students majoring in college STEM degrees



STEM students make connection with businesses

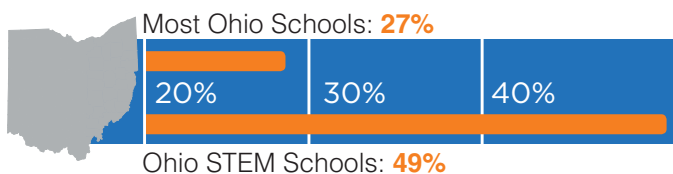
**71,000+**  
Internship Hours

Sources: Ohio Department of Education Report Card (September 2017); Survey of Ohio STEM Learning Network schools by Battelle (June 2018); U.S. STEM majors via National Science Foundation's Science and Engineering Indicators - Appendix 2-16 (2014)

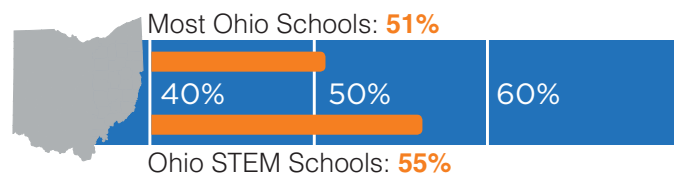


## STEM Means Opportunity For All

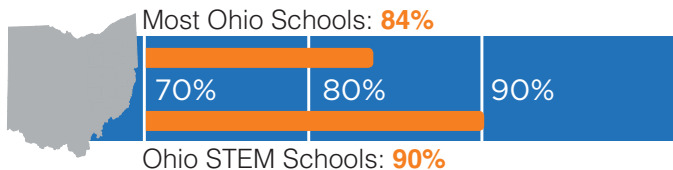
### Ethnically diverse students



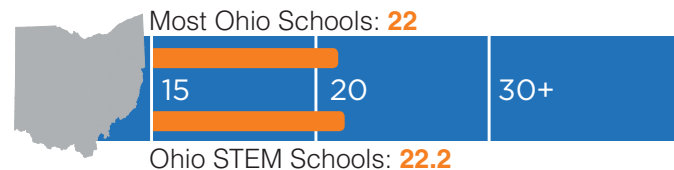
### Economically disadvantaged students



### Graduation Rate



### ACT Score



#### 94% to 99% Graduation Rate:

- Dayton Early College Academy
- Reynoldsburg eSTEM Academy
- Reynoldsburg (HS)2 Academy
- Northwestern Local High School
- MC2 STEM High School

#### 100% Graduation Rate:

- Metro Early College Middle School and High School
- Dayton Regional STEM School
- Global Impact STEM Academy
- Akron STEM High School
- Bio-Med Science Academy

#### 23+ ACT Scores:

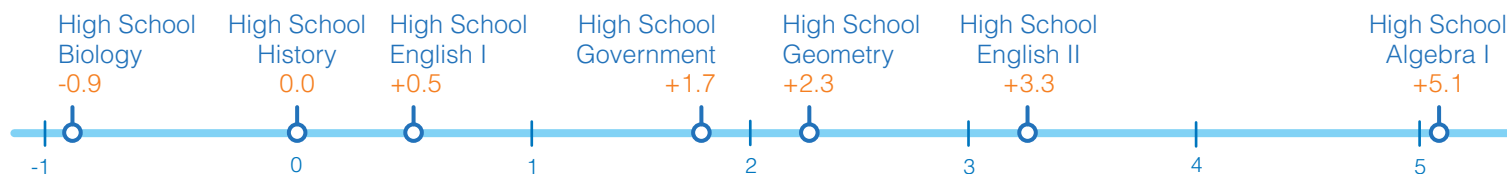
- St. Vincent- St Mary High School
- Tri-State STEMM
- Geauga iSTEM Early College High School
- Bio-Med Science Academy

#### 25+ ACT Scores:

- Dayton Regional STEM School
- Metro Early College Middle School and High School

Sources: Ohio Department of Education Report Card (September 2017) and survey of Ohio STEM Learning Network schools by Battelle (June 2018)

## Performance on State Tests (STEM Schools vs State Schools)



## The STEM School Experience Means Making Connections for Your Future



# 50,000<sup>+</sup>

## Service Hours

STEM school students logged serving their communities

Through service learning, students build connection to their community and improve their resumes.



# 70%

## of STEM Schools

joined #hourofcode to build computer science skills

Hour of Code is an annual campaign to recruit more schools to teach computer science created by Code.org.



# 100%

## of STEM Schools

use inter-disciplinary design challenges with hands-on learning

Battelle recently hosted 80 students from Ohio STEM Learning Network to present solutions to Heart Disease.

Source: Survey of Ohio STEM Learning Network schools by Battelle (June 2018)



## Membership in the Ohio STEM Learning Network is open to any school that successfully applies for designation under the Ohio Revised Code.

To learn more about how your school can bring quality STEM to students, sign up for weekly updates from the network at [www.osln.org/sign-up](http://www.osln.org/sign-up).

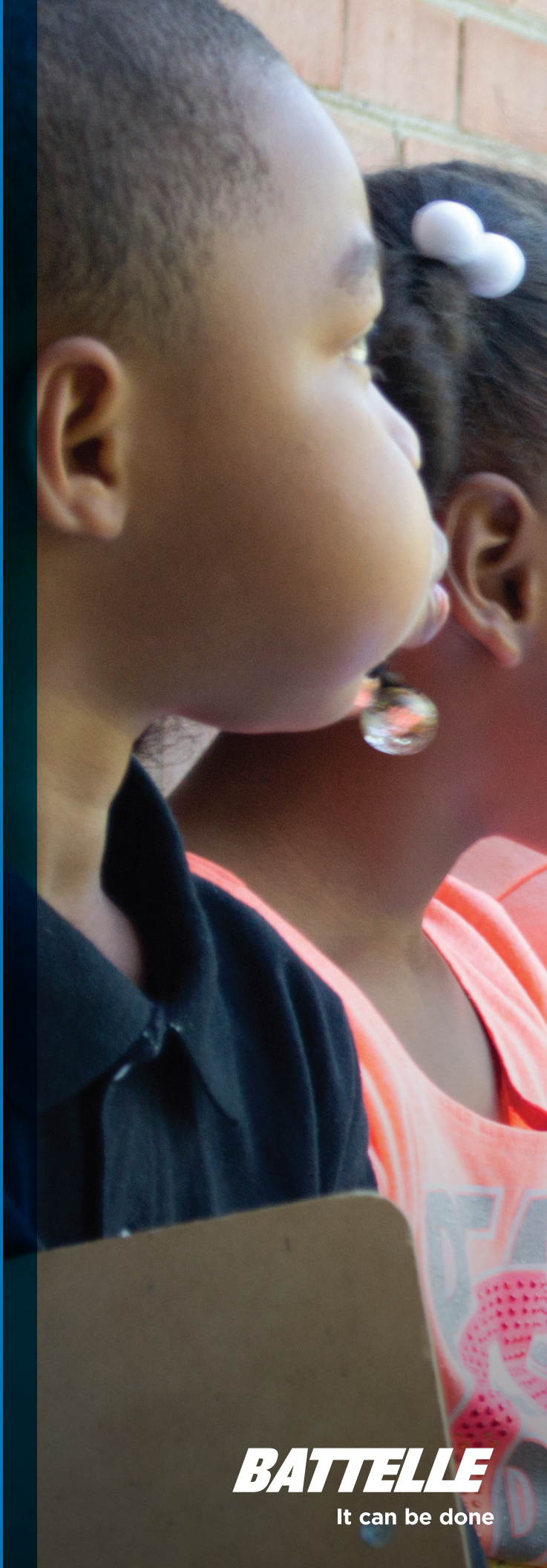
The Ohio STEM Learning Network is managed by Battelle, a Columbus-based non-profit research institute, as part of the company's commitment to inspiring the next generation of innovators.

Every day, the people of Battelle apply science and technology to solving what matters most. At major technology centers and national laboratories around the world, Battelle conducts research and development, designs and manufactures products, and delivers critical services for government and commercial customers. Headquartered in Columbus, Ohio since its founding in 1929, Battelle serves the national security, health and life sciences, and energy and environmental industries. For more information, visit [www.battelle.org](http://www.battelle.org).

800.201.2011 | [solutions@battelle.org](mailto:solutions@battelle.org) | [www.battelle.org](http://www.battelle.org)

Battelle and its logos are registered trademarks of Battelle Memorial Institute.  
© Battelle Memorial Institute 2018. All Rights Reserved.

10/18



**BATTELLE**  
It can be done