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.

**15,000+ College Credits**

Saving students more than $8.5 million in estimated tuition costs

**71,000+ Internship Hours**

**Students enrolled in college after graduation**

- Most Ohio Schools: 70%
- Ohio STEM Schools: 84%

**Students majoring in college STEM degrees**

- Most U.S. Schools: 39%
- Ohio STEM Schools: 55%

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)
The STEM School Experience Means Making Connections for Your Future

**STEM Means Opportunity For All**

**Ethnically diverse students**
- Most Ohio Schools: 27%
- Ohio STEM Schools: 49%

**Economically disadvantaged students**
- Most Ohio Schools: 51%
- Ohio STEM Schools: 55%

**Graduation Rate**
- Most Ohio Schools: 84%
- Ohio STEM Schools: 90%

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

<table>
<thead>
<tr>
<th>Test</th>
<th>High School Biology</th>
<th>High School History</th>
<th>High School English I</th>
<th>High School Government</th>
<th>High School Geometry</th>
<th>High School English II</th>
<th>High School Algebra I</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEM Schools</td>
<td>-0.9</td>
<td>0.0</td>
<td>+0.5</td>
<td>+1.7</td>
<td>+2.3</td>
<td>+3.3</td>
<td>+5.1</td>
</tr>
<tr>
<td>State Schools</td>
<td>-1</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

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

**ACT Score**
- Most Ohio Schools: 22
- Ohio STEM Schools: 22.2

**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

**Service Hours**
- 50,000+
- STEM school students logged serving their communities

**70%**
- Hour of Code is an annual campaign to recruit more schools to teach computer science created by Code.org.

**100%**
- Battelle recently hosted 80 students from Ohio STEM Learning Network to present solutions to Heart Disease.

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

**Most Ohio Schools:**
- 27%
- 40%
- 60%

**Ohio STEM Schools:**
- 30%
- 40%
- 50%

**Graduation Rate:**
- 70%
- 80%
- 90%

**Sources:**
- Ohio Department of Education Report Card (September 2017)
- 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.

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.