OSLN founded by Battelle

Battelle’s mission
To translate scientific discovery and technological advances into societal benefits

Gordon Battelle, whose will and trust created Battelle
We solve the world’s toughest problems

Neurolife: First ever control of paralyzed hand by brain

Critical Care Decontamination System (CCDS)
In partnership with the Ohio Department of Education, launched the Ohio STEM Learning Network.

From two states to 19 states, STEMx unites state STEM networks.

2006
Founding partner of Metro Early College High School

2008
In partnership with the State of Tennessee, one state grew to two states

2010
In partnership with the State of Tennessee, one state grew to two states

Today
From two states to 19 states, STEMx unites state STEM networks
What OSLN does

Empowers educators

Inspires students

Engages communities

Recognizes innovative schools
Regional STEM Hubs

OSLN Regional Hubs

Hub Partners

- Cleveland State University
- Akron Public Schools—National Inventor’s Hall of Fame STEM School
- University of Cincinnati & Greater Cincinnati STEM Collaborative
- Wright State University
- Bowling Green University
- Metro Early College High School
- SE hub, not filled
Statewide Design Challenge

• “We have a problem and we want you (students) to solve it”

• Problems that deeply affect our students

• Prompts students to use design thinking to create solutions

• Encourages teamwork and new ideas!
What is a Design Challenge?

• Work in groups to brainstorm solutions to a given problem.
• Create a prototype of solution
• Present solution to an authentic audience
• Get feedback on solution
• Modify solution

CHALLENGE QUESTION
How might you re-imagine mobility in your community to increase your community’s happiness and well-being?
Build essential skills

Problem solving
Envision multiple solutions
Innovate processes, methods and designs
Construct models and prototypes
Communicate effectively
Teamwork
Persist and learn from failure
Annual Timeline:

- Summer: OSLN creates challenge question
- Fall: Design Challenge Kickoff (PD for teachers/staff)
- Winter: Student presentations at school or program
- Spring: Student Solutions Showcase at Battelle
2020-21: SMART Home/Energy
Design challenges help students see themselves as problem solvers

Partnerships are essential to authentic design challenges

Statewide challenge highlights STEM in Ohio

Start small, then scale
STEMthusiasts PLC Sessions

Invention, Inquiry and Innovation
Tools and Techniques for Covid-19
April 30 | 2:00 - 3:30 P.M.

Human Centered Design
Creating a design challenge that enables students to create their own future
May 7 | 2:00 - 3:30 P.M.

Future Focused STEM
May 14 | 2:00 - 3:30 P.M.
Stay connected

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www.osln.org/sign-up