



Advance STEM education through innovative teaching and collaboration to prepare *all* students for success in the 21st century.

The Greater Mohawk Valley STEM HUB encompasses the following BOCES and their component school districts:

Oneida-Herkimer-Madison BOCES

Brookfield, Clinton, Holland Patent, New Hartford, New York Mills, Oriskany, Remsen, Sauquoit Valley, Utica, Waterville, Westmoreland, Whitesboro

Madison-Oneida BOCES

Camden, Canastota, Hamilton, Madison, Morrisville-Eaton, New York State School for the Deaf, Oneida, Rome, Stockbridge Valley, Vernon-Verona-Sherrill

Herkimer-Fulton-Hamilton-Otsego BOCES

Central Valley, Doldgeville, Frankfort-Schuyler, Herkimer, Little Falls, Mount Markham, Owen D. Young, Poland, Richfield Springs, West Canada Valley

Otsego Northern Catskills BOCES

Andes, Charlotte Valley, Cherry Valley-Springfield, Cooperstown, Edmeston, Gilboa-Conesville, Hunter-Tannersville, Jefferson, Laurens, Margaretville, Milford, Morris, Oneonta, Roxbury, Schenevus, South Kortright, Stamford, Windham-Ashland-Jewett, Worcester

Hamilton-Fulton-Montgomery BOCES

Greater Amsterdam, Broodalbin-Perth, Canajoharie, Edinburg, Fonda-Fultonville, Fort Plain, Gloversville, Greater Johnstown, Lake Pleasant, Mayfield, Northville, Oppenheim-Ephratah-St.Johnsville, Piseco, Wells, Wheelerville

College Partners:

Clarkson University, Colgate University, Fulton-Montgomery Community College, Hamilton College, Hartwick College, Herkimer County Community College, Mohawk Valley Community College, SUNYIT, SUNY Morrisville, SUNY Oneonta, Utica College, Utica School of Commerce

Business, Industry & Community Partners:

Exelis

Griffiss Institute

Indium

King & King Architecture

Mohawk Valley EDGE

Siemens Corporation

The Community Foundation of Herkimer and Oneida Counties

Workforce Investment Board Herkimer, Madison, Oneida Counties

Workforce Solutions Fulton, Montgomery, Schoharie Counties



WHY STEM? WHY NOW?

- Create a workforce with 21st century skills, strong in STEM; connect education and private enterprise to create jobs; prepare for tomorrow by encouraging learning opportunities in STEM; leverage existing partnerships and build new and deeper collaborations.
- Align workforce and education investments with priority on building STEM programs.
- Ensure that the region's K-12 students develop 21st century skills aligned with specific industry clusters.
- Address regional workforce shortages in clean technology, biomedical, nanotechnology, information technologies, cyber security, healthcare, agriculture, and other key fields.
- Need for investment in K-12 education and for STEM programs to motivate children to pursue higher education in fields such as math, science and engineering.

OUR GOALS

1. Develop and implement a comprehensive communication plan targeted to community audiences, schools, business and industry and parents articulating the urgency of delivering STEM instruction and the skills needed to meet global, national and regional economic development and workforce needs.
2. Extend trans-disciplinary inquiry and project-based STEM instruction to elementary and middle school grade levels.
3. Develop in collaboration with business and industry credit-bearing high school course sequence in STEM blending virtual and project based opportunities to achieve mastery and lead towards articulated and/or dual credit attainment.
4. Implement a menu of professional learning opportunities under the BOCES umbrella that provides opportunity for educators to extend their STEM knowledge and experience as well as develop inquiry based trans-disciplinary and real-world units to advance student understanding of STEM.
5. Promote and coordinate the region's school and business alliance assets offering students the opportunity to explore 21st century careers and education paths.
6. Develop an economic development advisory council of key stakeholders to inform the work of the STEM Hub.