

INNOVATION GENERATION

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Fact Sheet

Advanced Manufacturing and Robotics

Industry Sector: Advanced Manufacturing

Participating School Districts: Reynoldsburg City Schools, Marysville Exempted Village Schools, New Albany-Plain Local Schools, Westerville City Schools, Pickerington Local Schools, Gahanna-Jefferson Schools, Columbus City Schools, Grandview Heights City Schools and Upper Arlington City Schools

Higher Education Partners: Columbus State Community College, Capital University, Otterbein University and The Ohio State University

Industry Partners: Partners currently include Honda of America Mfg., TS Tech Americas, Inc., Greif and DynaLab

- The Next Generation of Innovators Network integrates grades 7-14 educational endeavors with advanced manufacturing companies to strengthen the economic forecast for central Ohio, boost advanced manufacturing opportunity for innovation and attract and retain the well-paying jobs for students' economic future.
- The program provides MIT Mobile Fab Labs (fabrication labs) for participating schools. It demonstrates how to embed fabrication technologies in education while simultaneously forming an entrepreneurship center for economic development and job training.
- The program enables students to learn how to use leading-edge advanced manufacturing techniques while solving problems that matter. Students participate in shadowing experiences and internships with industry partners. MIT Mobile Fab Lab curriculum improves students ability to problem solve and innovate, enhances math and science skills, strengthens students' communication abilities and provides opportunities for them to earn industry credentials for work and credits toward a college degree while in high school.
- Each MIT Mobile Fab Lab will be available to students at their home schools, eliminating the need for transportation while advanced distance collaboration will encourage inter-district collaboration.
- Seventh and eighth grade students will participate in Project Lead the Way's Gateway to Technology program or like curriculum.
- The MIT Mobile Fab Lab hubs facilitate network expansion to connect schools and others with partners in advanced manufacturing, thereby strengthening local economies. Strategies include new curriculum, internships and mentorships.