

PREPARING

THE NEXT GENERATION OF LEADERS IN MANUFACTURING


PRIME[®]
PARTNERSHIP RESPONSE IN MANUFACTURING EDUCATION


sme
EDUCATION
FOUNDATION





SME drives awareness of manufacturing careers and prepares the workforce of today and tomorrow. We inspire and support our members and customers as they develop their skills and knowledge to advance the manufacturing industry. As a manufacturing solution provider and educational resource, SME links organizations like yours to the knowledge and people you need to build and strengthen your abilities.





SME Education Foundation

The SME Education Foundation inspires, prepares and supports young people in their pursuit of advanced manufacturing career pathways. Through our scholarships and acclaimed PRIME® program, we are fostering the next generation of manufacturing engineers and technologists. By helping to build a pipeline of skilled and STEM-capable workers, we are making an impact in securing our nation's future competitiveness and economic prosperity.

Investing in the future workforce

To date, we have invested millions of dollars in youth education programs and inspired more than 60,000 students to explore a career in manufacturing.

Our accomplishments

- Provided more than **\$13.9** million in scholarships over the past seven years
- Awarded over **\$2.2** million in scholarships to **673** students in 2017

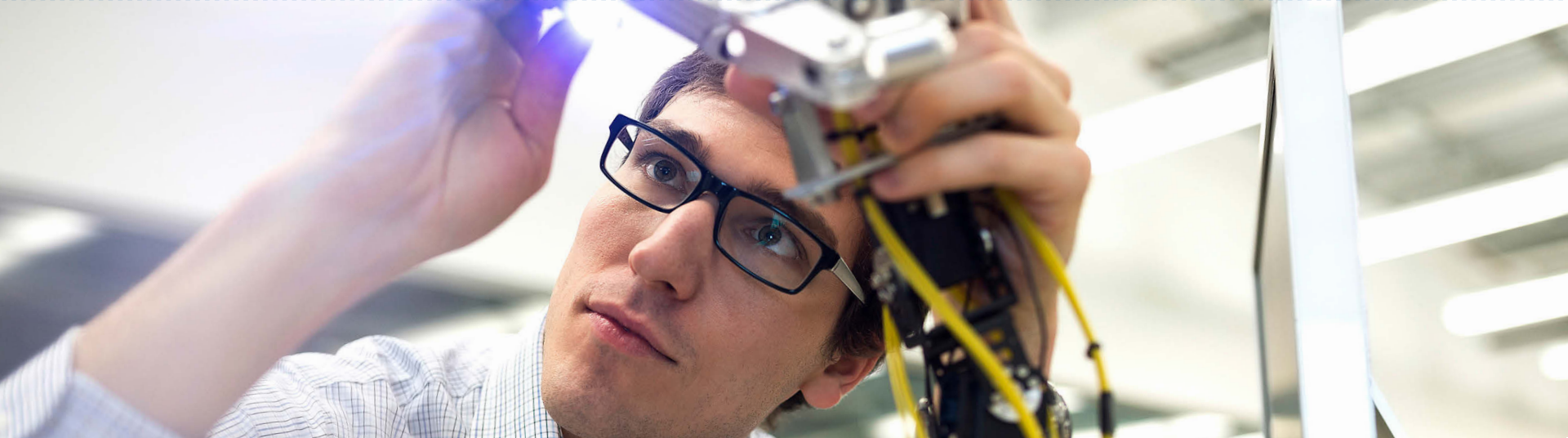
INSPIRE. PREPARE. SUPPORT.



Build Your Future Workforce by Investing in PRIME

(Partnership Response In Manufacturing Education)

We establish centers of excellence in manufacturing education in high schools by working with industry to influence and tailor the technological and curricula offerings available to students to prepare them for skilled careers. PRIME builds student awareness of manufacturing career pathways and provides options for students to acquire industry credentials and successful employment.



4 ways SME and PRIME® provide award winning solutions for manufacturing companies and students

- 1 Students and educators at Partnership Response In Manufacturing Education (PRIME) schools benefit from **SME Membership's** resources and network. SME members—including manufacturing professionals, world-renowned researchers, educators and students—are not only looking to connect with peers and gain knowledge. They also have the opportunity to share their technical knowledge and experience by mentoring PRIME students, offering internships and providing job-shadowing opportunities.
- 2 PRIME students have the opportunity to attend student summits at our **national manufacturing events**. These summits allow students, parents and educators to interact face-to-face with representatives of companies that provide revolutionary technologies and business-changing innovations.
- 3 Designated PRIME schools have access to training materials and curriculum from **Tooling U-SME**, the industry leader in manufacturing training. Tooling U-SME works directly with more than half of all Fortune 500 manufacturing companies, and several hundred community colleges and high schools, to provide training and certifications in almost every area of manufacturing.
- 4 PRIME students and manufacturing professionals benefit from **Advanced Manufacturing Media**, which produces digital and print publications that cover relevant manufacturing news, technology and advances. This coverage improves students' and professionals' ability to make decisions in an intensely competitive global environment.

Did you know ...

By 2025, there will be 2 million unfilled manufacturing jobs due to a retiring workforce and unskilled youth?

PRIME[®]

GIVES your company a direct connection to the high school education system, allowing you to influence the development of a trained future workforce tailored to your needs.

Each PRIME program is built upon the expressed workforce needs of industry partners.

BECOME A SPONSOR
MAKE A DIFFERENCE IN MANUFACTURING
LEARN MORE AT [SMEEF.ORG](https://www.smeef.org)

SERVES as the “translator” between your company, other manufacturers and the local high school network to create opportunities for students to gain relevant, hands-on knowledge and skills for manufacturing.

We engage local manufacturing professionals with opportunities to serve on advisory boards that offer leadership insight into technology and curriculum needs, and to interact with students through mentoring and job shadowing.

GENERATES your qualified manufacturing talent pool more efficiently than traditional education models.

PRIME supplements traditional coursework and provides students with 21st-century manufacturing skills, which can lead to industry credentials. The program integrates the collective strengths of SME, ranging from Tooling U-SME curriculum to engagement of SME student members. PRIME students are often capable of successfully transitioning to the manufacturing workforce immediately upon high school graduation.

CREATES a strong economic impact in communities by providing students with direct connections to employment opportunities, and by providing companies with access to a qualified workforce.

By expanding the pipeline of qualified workers in a community, we provide companies with access to a highly-skilled and educated local workforce. This addresses one of the most critical elements of success for future growth and innovation.

PROVIDES you with an opportunity to fulfill two key business objectives—linking your corporate citizenship goals to your workforce development needs.

Since the SME Education Foundation is a 501(c)3 nonprofit, your tax-deductible contribution allows you to fulfill your philanthropic goals while developing your future manufacturing workforce.

SKILLED WORKERS

Most in Demand over the next five years¹

77%

CNC Machinists

84%

Quality Control

79%

Mechanical
Technicians

80%

Manufacturing
Engineers

72%

CAD/CAM
Technicians

52%

Tool Makers

48%

Welders

¹ Industry Pulse – 2016 Manufacturing Industry update, ToolingU-SME



“

The PRIME model supports our program in a variety of ways, including curriculum offerings, and access to industry training along with the ability to network with other great schools around the nation.”

Jim Weber - PRIME instructor, Capital High School, Helena, MT

”

SEE WHAT PEOPLE ARE SAYING

PRIME® is helping shape the future of manufacturing

“We cultivate academic and nonprofit partnerships that streamline education to employment with applied opportunities for students to pursue manufacturing careers. Arconic Foundation and the SME Education Foundation’s partnership brings many unique opportunities into high schools: giving students access to industry experts and professionals, guided tours of manufacturing plants, mentorships, job shadowing and internships.”

– **Ryan Kish - Program Manager, Arconic Foundation**

“Entering Esperanza High School and finding the wonders which awaited me was truly an awe-inspiring moment. The ability to use such a variety of tools and machines I had not seen before further set my goals for the future.”

– **Matthew Maltbie - PRIME student at Esperanza High School, Anaheim, CA**

“Technical skill sets are available worldwide, but the resources to build locally can only be developed locally. The need for new talent must be achieved with employer input, support and focus. PRIME responds to the needs of employers and transforms the local education system to support local job creators.”

– **Bruce Schafer - Vice President of Manufacturing, Rexair LLC, Member of the MMA Talent Advisory Council**

PRIME[®] is partnering with 45 schools in the U.S.

CALIFORNIA:

- Esperanza High School
- Hawthorne High School
- John Glenn High School
- Petaluma High School
- Rocklin High School
- San Pasqual High School

COLORADO:

- Coronado High School

FLORIDA:

- East Lake High School
- Middleton High School

ILLINOIS:

- East Leyden High School
- Wheeling High School

INDIANA:

- Area 31 Career Center at Ben Davis HS
- McKenzie Center for Innovation and Tech.
- Walker Career Center

IOWA:

- Cedar Falls High School

KENTUCKY:

- Jeffersontown High School

MASSACHUSETTS:

- Westfield Vocational Technical High School
- Worcester Technical High School

MICHIGAN:

- Cornerstone Health + Technology High School
- Grand Haven High School
- Jackson Area Career Center (JACC)
- Romeo High School
- White Hall High School

MINNESOTA:

- Saint Michael-Albertville High School

MISSOURI:

- Summit Technical Academy

MONTANA:

- Capital High School

NEW YORK:

- Cazenovia High School

NORTH CAROLINA:

- Hopewell High School

OHIO:

- Anna High School

OHIO (CONTINUED):

- Centerville High School
- Copley High School
- Barberton High School
- Kettering Fairmont High School
- Norton High School
- Tri Rivers Career Center
- Wadsworth High School

OKLAHOMA:

- Francis Tuttle Technology Center

PENNSYLVANIA:

- Central Columbia Senior High School
- Indiana County Technical Center

SOUTH CAROLINA:

- Wando High School

TEXAS:

- Hollenstein Career Center

VIRGINIA:

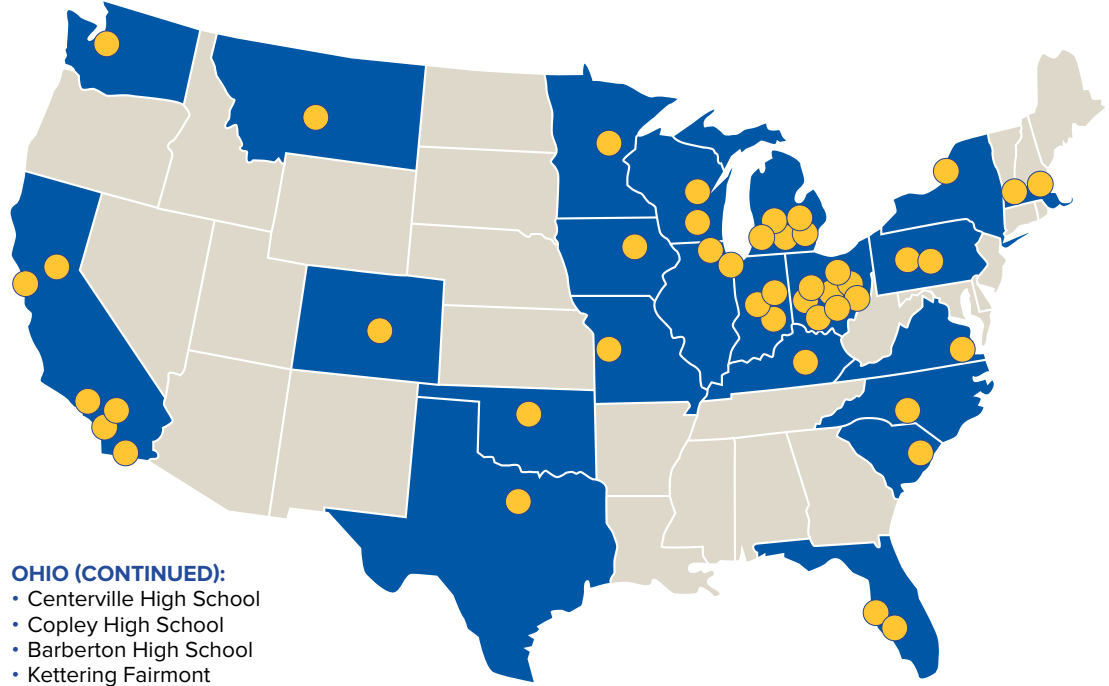
- Denbigh High School-Aviation Academy

WASHINGTON:

- Roosevelt High School

WISCONSIN:

- Bradley Technology and Trade School
- Park High School



PRIME[®] Impact



18% of PRIME students are female

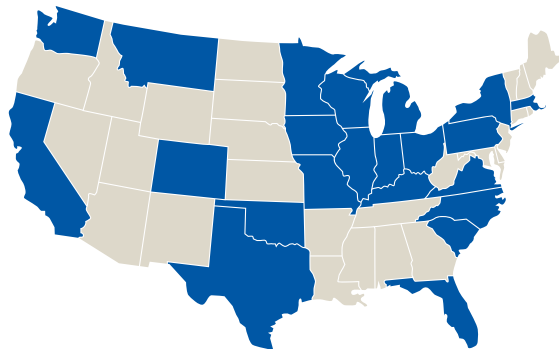


84% of students graduating from PRIME schools are pursuing careers in manufacturing.

Over **40,000** students impacted to date.
29,000 in class; **11,000** out of class.



45 schools in **22** states



46% of PRIME students are minorities



Over **250** manufacturing partners engaged in the PRIME[®] network



PRIME[®] Partners



Learn more about how you can support the next generation workforce in manufacturing

Visit: smeef.org/prime | Email: foundation@sme.org