



Inspire. Prepare. Support.

SME EDUCATION FOUNDATION

Inspire, prepare, and support the next generation
of manufacturing and engineering talent

SME EDUCATION FOUNDATION



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INSPIRE - SUMMITS

Hands-on manufacturing challenges and competitions for high school students

PREPARE - SME PRIME®

Industry-informed curriculum, equipment and training in high schools across the county

SUPPORT - SCHOLARSHIPS

\$2 million in engineering and manufacturing scholarships awarded annually



integrate
own IP
transform
5
We support
offering

WHY?



522,000 manufacturing jobs are currently unfilled

National Association of Manufacturers



2.4 million manufacturing jobs could go unfilled by 2028

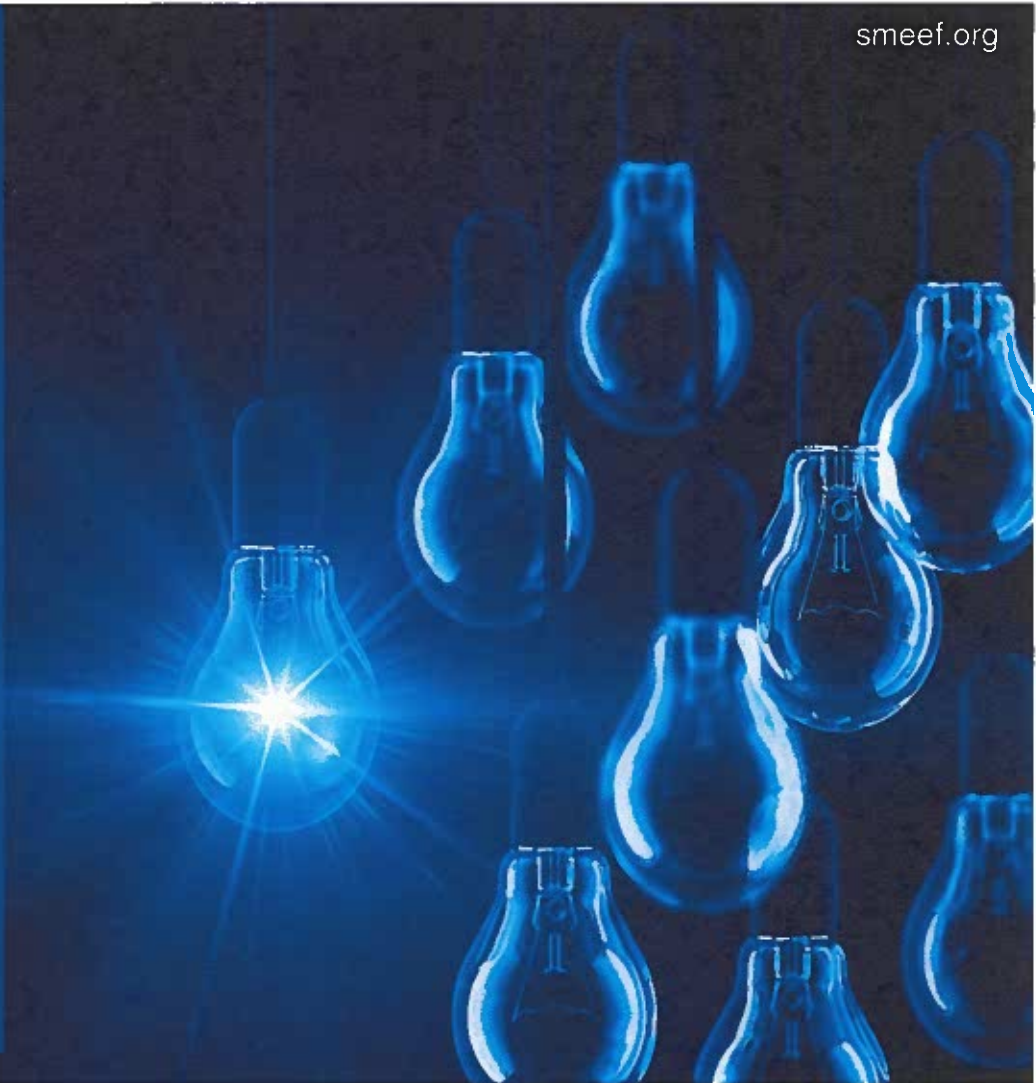
Manufacturing Institute / Deloitte



\$2.5 Trillion economic impact (negative)



Inadequate pipeline of talent entering the industry due to perception problems





Michigan



1. Alma High School in Alma
2. Birch Run High School in Birch Run
3. Center Line High School in Center Line, Michigan
4. Cornerstone Health + Technology High School in Detroit
5. Freeland High School in Freeland
6. Grand Haven High School in Grand Haven
7. Gratiot Isabella Technical Education Center (GI-TEC) in Mt Pleasant
8. Hemlock High School in Hemlock
9. Heritage High School in Saginaw
10. Jackson Area Career Center in Jackson
11. Merrill High School in Merrill
12. Pontiac High School in Pontiac
13. Romeo High School in Romeo
14. Saginaw Career Center in Saginaw
15. Starkweather Academy in Plymouth
16. Swan Valley High School in Saginaw
17. Whitehall High School in Whitehall

SME PRIME® Pathways

Preparing the Next Generation

Core Pathways

1. Additive Manufacturing
2. Metrology & Quality
3. Computer Aided Design and Manufacturing (CAD/CAM)

Elective Pathways

1. Industrial Maintenance
2. Machining and Fabrication
3. Mechatronics & Robotics
4. Welding

SME PRIME® Deliverables



SME PRIME® Vendors

Snap-on

FESTO

GRAINGER



Mastercam

AUTODESK

TOOLINGU | sme

FIRST

**LINCOLN
ELECTRIC**



SIEMENS

stratasys

UNIVERSAL ROBOTS

DREMEL

VERISURF



Leading Provider of Training and Workforce Development Solutions

- 90-plus employees | 16 instructional designers
- 500-plus classes
- Aligned with 3rd party industry standards and certifications

Suite of versatile learning and development solutions:



Online



Instructor-Led



Virtual Reality



Books & Video



Certification



Custom



SME PRIME[®] Impact

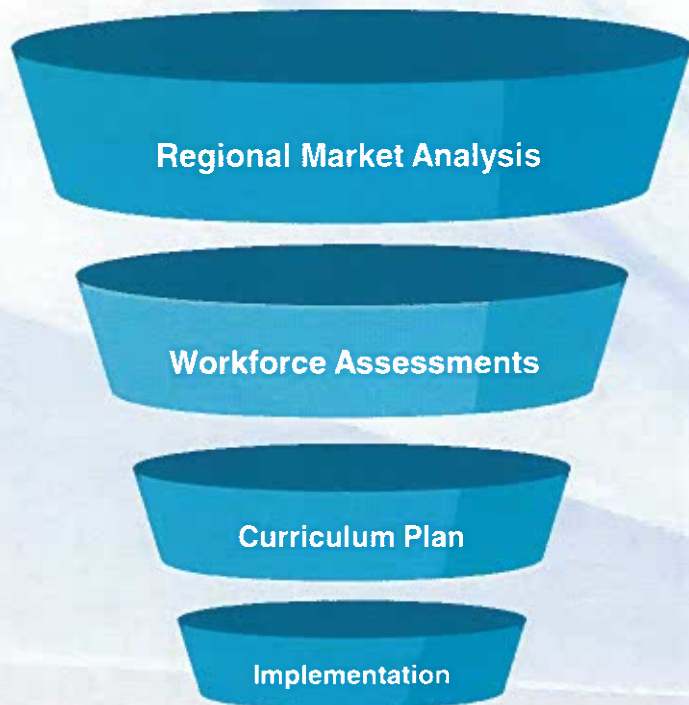


84%

of students graduating from PRIME[®] schools
are pursuing careers in manufacturing.

INSPIRE. PREPARE. SUPPORT

SME PRIME[®] Process



- ✓ **Identify a high school**
- ✓ **Secure financial support**
- ✓ **Identify Pathways**
 - Regional Market Analysis
 - Workforce Assessments
- ✓ **Develop Curriculum Plan**
 - Project-Based Learning Instructional Delivery
 - Aligned with State Standards and CIP Codes
 - Aligned with 3rd Party Certification Requirements
 - Soft Skills, as Identified by Harvard University
 - Chronological Four-Year Plans
 - 180 Hours/Year
- ✓ **Implementation (2 – 3 Years)**

SME PRIME® Budget & Donation Options



- One Donor
 - \$120,000 per year for three years
- Two Donors
 - \$60,000 per year for three years
- Three Donors
 - \$40,000 per year for three years
- Four Donors
 - \$30,000 per year for three years

SME PRIME® ROI

INDUSTRY

- Customized needs-based training program
- Turn-key operation | *Plug n Play*
- Direct connection to local high schools
- Enhanced pipeline of talent
- Corporate brand recognition

EDUCATION

- High School
 - Complimentary “hands-on” manufacturing program
 - Connection to local employers
- Students
 - Introduction to manufacturing career pathways
 - Relevant skill set and industry recognized certifications
- Teachers
 - Professional development
 - Access to SME PRIME® network

Diversity, Equity, and Inclusion

- DEI initiative launched in 2020
 - I. Scholarships

Achieve race and gender parity within scholarship program – applicants and awardees.
 - II. SME PRIME

Increase percentage of minority and female students served by SME PRIME® to 50% and 35%, respectively.
 - III. Board Governance

Ensure diversity factors considered in Foundation board governance nominations.



The background of the slide is a blue-tinted photograph of a classroom. Several students are visible, some looking towards the camera and others looking down at their work. The overall atmosphere is educational and collaborative.

sme²
EDUCATION
FOUNDATION

QUESTIONS

smeef.org

