



The Advanced Manufacturing Industry's Role in Driving STEM Educational Pathway Models

Policy and Investment Implications

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The Opportunity

Chart 5. Percentage of respondents who believe the manufacturing industry is very important to our

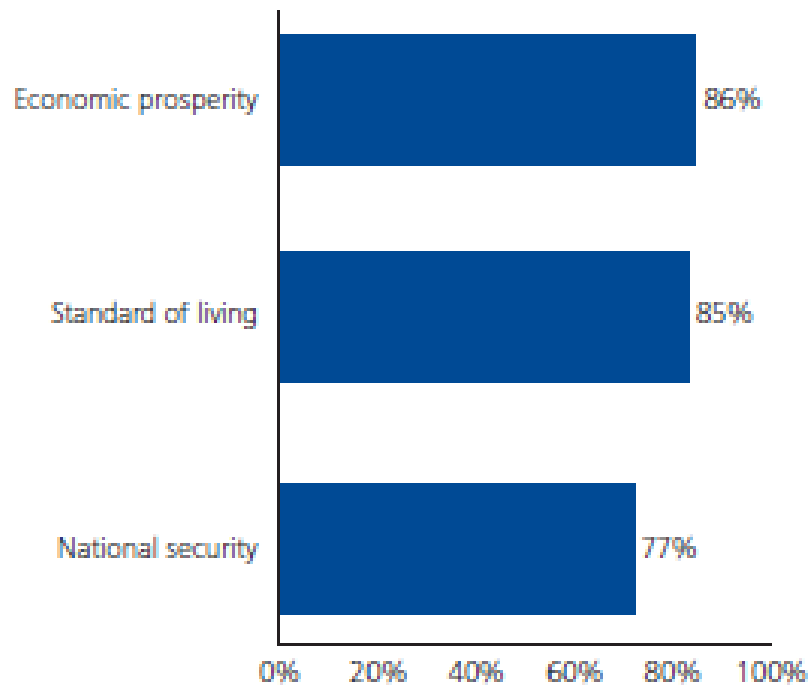


Chart 10. Ranking by respondents of the type of new industry facility they would support to create 1,000 new jobs in their community

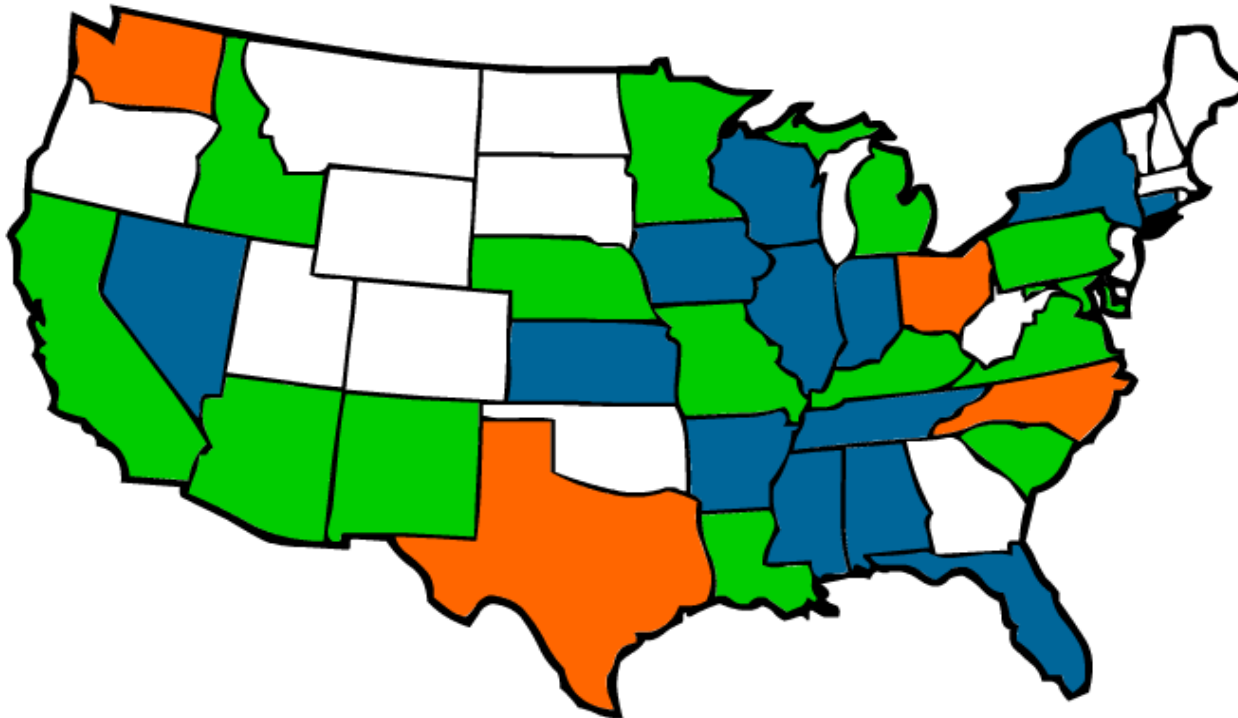
Facility	Rank
Manufacturing facility	1
Energy production facility	2
Healthcare facility	3
Technology development center	4
Communications hub	5
Retail center	6
Financial institution	7

(Aggregate ranking of sectors by all respondents)

The Challenge

- 82% of manufacturers report a moderate-to-serious skills gap in skilled production.
- 74% of manufacturers report that this skills gap has negatively impacted their company's ability to expand operations.
- 69% of manufacturers expect the skills shortage in skilled production to worsen in the next 3-5 years.
- This skills gap has resulted in 5% of all manufacturing jobs going unfilled.

The Solution



States funded by the Gates Foundation for deployment (NC, OH, TX and WA)

States funded by Lumina Foundation for Education for planning statewide deployment (AL, AR, CT, FL, IL, IN, IA, KS, MS, NV, NY, TN, WI)

States with grassroots efforts advocating for deployment and/or Dream It. Do It. states (AZ, CA, ID, KY, LA, MD, MI, MN, MO, NE, NM, PA, SC, VA)

Goal to Credential **500,000** Manufacturing Workers by

2016



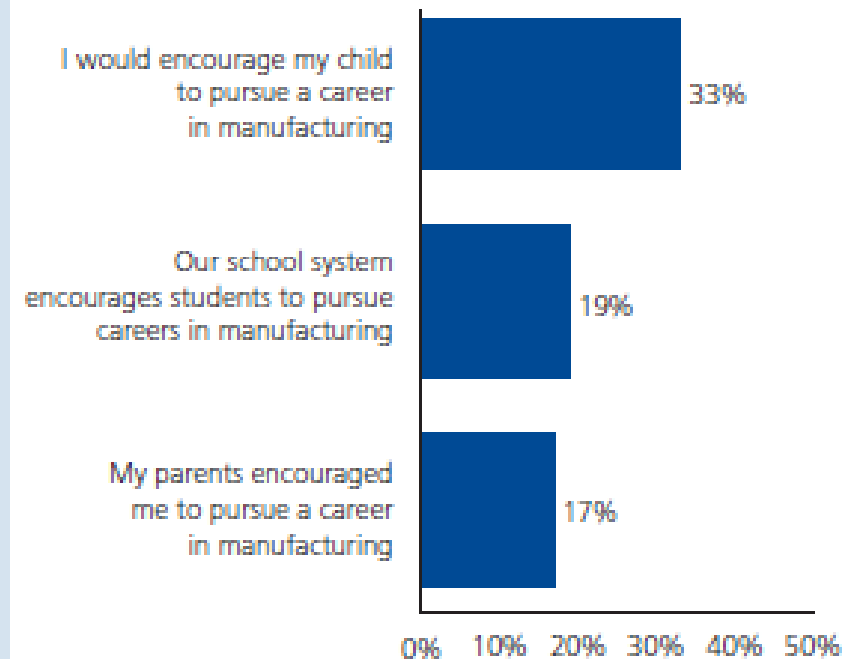
Student Engagement

Chart 11. Ranking by respondents of industry preference if they were beginning their career today

Industry	Rank
Technology industry	1
Energy industry	2
Healthcare industry	3
Communications industry	4
Manufacturing industry	5
Financial services industry	6
Retail industry	7

(Aggregate ranking of sectors by all respondents)

Chart 12. Percentage of respondents who strongly agree or agree with each statement

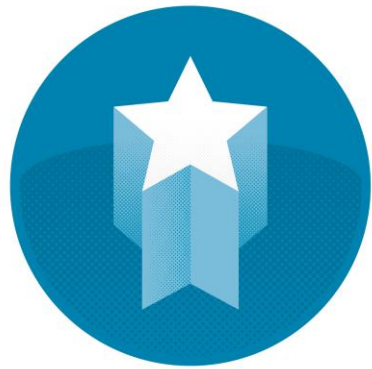


Employer Engagement

“One reason Siemens and Caterpillar chose North Carolina is that Charlotte and Winston-Salem have community colleges that stress manufacturing skills. In Winston-Salem, Forsyth Tech, a local community college, was involved in wooing Caterpillar and created a program...to make sure its graduates have the machining skills the company needs.”

– *The New York Times*

Employer Engagement



RIGHT
SKILLS
NOW

FOR MANUFACTURING

- Providing workers and students with fast-track skills for employment
- Providing manufacturers just-in-time talent from the lab/classroom to the shopfloor
- Accelerating and expanding lifelong learning opportunities for a flexible, technical workforce

Employer Engagement

Right Skills Now begins with ACT's National Career Readiness Certificate.

Personal effectiveness: *show up on time, ready for work*



Essential academic skills in reading, writing, math, and using and locating information: *communicate effectively and interpret key instructions*



Workplace skills: *work in teams and problem-solve*

A Better Measure of Skills Gaps



SHARE   

A Better Measure of Skills Gaps

UTILIZING ACT SKILL PROFILE AND ASSESSMENT
DATA FOR STRATEGIC SKILL RESEARCH

ACT

Policy & Investment Implications

- Perkins?
- WIA?
- TAA?

Funders' Priorities

- Postsecondary Success
- Degrees Matter
- Aligned Education & Career Pathways
- Innovations in Education
- Accelerating Postsecondary Education