

# Career Technical Education



MEETING STUDENT AND EMPLOYER NEEDS

April 5, 2018

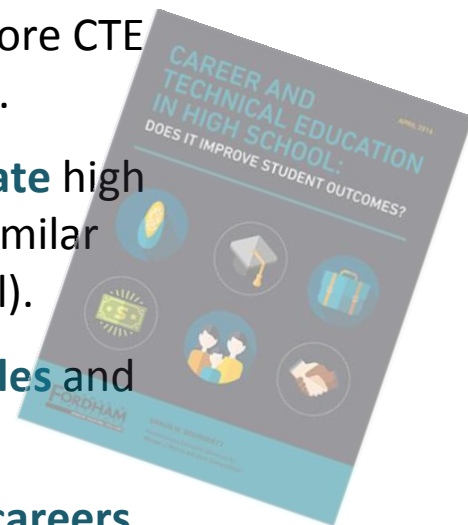
Saginaw County Chamber of Commerce Percolator Breakfast

Kathy Stewart, Ph.D.

- Honor the Past
- Identify Talent Pipeline needs
- Recognize barriers for constructing a strong talent pipeline
- Focus on the future

# RESEARCH - DID YOU KNOW?

- **Students** with **greater exposure to CTE** are **more likely to graduate** from high school, enroll in a two-year college, be employed, and **earn higher wages**.
- **CTE is a path TO college and advanced training: Students** taking more CTE classes are just as likely to pursue a four-year degree as their peers.
- **Students** who focus their CTE coursework are more likely to **graduate** high school **by twenty-one percentage points** compared to otherwise similar students (and they see a positive impact on other outcomes as well).
- CTE provides the greatest **boost to the kids** who need it most—**males** and **students from low-income families**.
- CTE offers the best STEM laboratory experiences **leading to STEM careers**.



Career and Technical Education in High School: Does It Improve Student Outcomes? (n.d.). Retrieved May 10, 2016, from <http://edexcellence.net/publications/career-and-technical-education-in-high-school-does-it-improve-student-outcomes>

# Honor the Past - Program Awards

**MANY** successes with Saginaw County CTE programs over the years. Saginaw Career Complex has carried the mantle for 50 years. Here are a **FEW** examples:

- **2003 Governor's Excellence in Practice Award** for Saginaw County Interagency School to Careers Partnerships
- **Breaking Traditions:** Since 2003 - 4 Merit Awards
- 2 **SkillsUSA** officers this year; 3 others since 2015; 7 medals at 2017 state conference, with 41 in the top 3 at States over the last 3 years; 2 students competed at nationals in June - Culinary Instructor Julie Ivan 2017 **National Advisor of the Year** plus is 2017 **Industry Baking Expert at World's Competition**; one Culinary student competed at **World's in 2015**.
- Grant from **Dow Corning** (\$30,000) to expand STEM initiatives at **SCC**
- Grant from **Skills USA** (\$10,000) for Electricity Program
- **CTE Principal of the Year** - Julie Walker 2008-09
- 2005 - SCC **Lemelson-MIT InvenTeam Winner** - development of autonomous robot to stripe athletic fields

# REGIONAL Need - Economic



## Examples of High Demand; High Wage Careers--Outlook Through 2020 in our Region

GLBMW! Occupation	Average Hourly Wage	Education/Training
Registered Nurses	\$30.33	Assoc/Bachelor's Degree/License
Business Operation	\$31.46	Bachelor's Degree
Plumbers, Pipefitters, Steamfitters	\$29.42	Assoc Degree/CTE Training/Certification
Electricians	\$28.26	Assoc/Bachelor's Degree/License

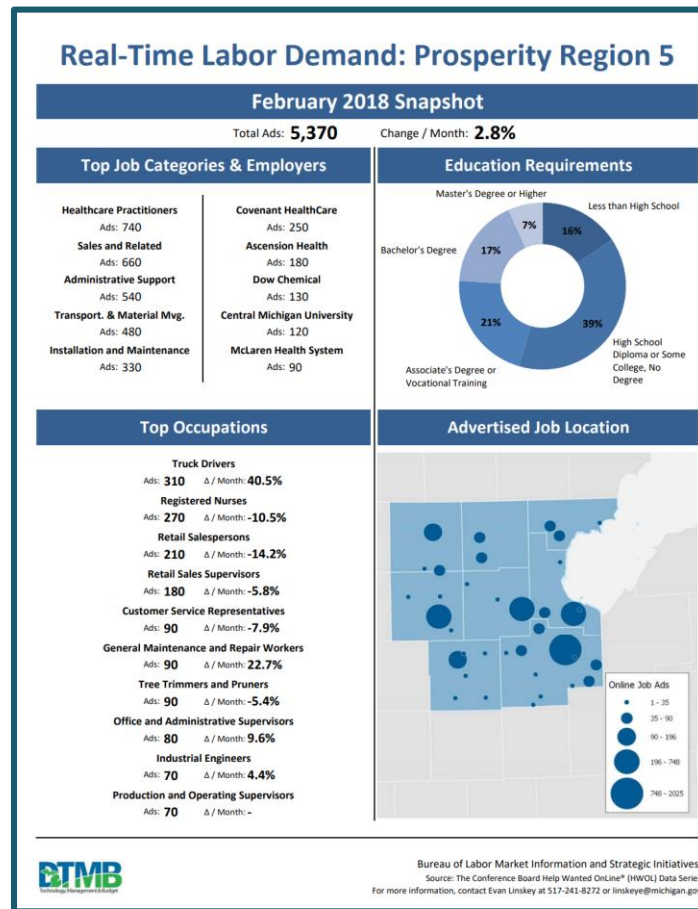
Department of Technology, Management, and Budget State of Michigan Bureau of Labor Market Information and Strategic Initiatives (2017). Retrieved from [https://dmbinternet.state.mi.us/DMB/DTMB\\_blmisi/Region.aspx?region=5](https://dmbinternet.state.mi.us/DMB/DTMB_blmisi/Region.aspx?region=5).

Great Lakes Bay Michigan Works!

# Regional Need - Economic

February, 2018 - Region 5 Real Time Labor Demand Ads

- Increase of 2.8% from previous month
- Top Job Category - Health >1,000
- High School Diploma/Some College  
No Degree top educational requirement
- Top Occupation - Truck Drivers
  - 310 ads
  - Increase of 40.5% from previous month



# Regional Need – Economic

## 2014-2024 Long Term Projections-Region 5



Occupation	Base Yr Emp	Projected Yr Emp	Annual Openings Due to Growth	Annual Openings Due to Replacement	Total Annual Openings
<b>Management</b>	<b>14870</b>	<b>15315</b>	<b>54</b>	<b>335</b>	<b>389</b>
Business and Financial Operations	8240	8685	52	168	220
Computer and Mathematical	2880	3215	35	40	75
Architecture and Engineering	4685	4760	11	118	129
Life, Physical, and Social Science	2205	2250	6	58	64
Community and Social Services	5055	5225	20	111	131
Legal	1210	1245	4	20	24
<b>Education, Training, and Library</b>	<b>14125</b>	<b>14495</b>	<b>39</b>	<b>300</b>	<b>339</b>
Arts, Design, Entertainment, Sports, Media	2555	2550	4	66	70
<b>Healthcare Practitioners and Technical</b>	<b>15705</b>	<b>17230</b>	<b>154</b>	<b>350</b>	<b>504</b>
<b>Healthcare Support</b>	<b>9820</b>	<b>11260</b>	<b>147</b>	<b>220</b>	<b>367</b>

Retrieved from Michigan Department of Technology, Management and Budget: *Michigan Regional Long-Term Employment Projections 2014-2024* (2018). <http://milmi.org/datasetsearch/projections-excel>

# Regional Need – Economic

## 2014-2024 Long Term Projections-Region 5



Occupation	Base Yr Emp	Projected Yr Emp	Annual Openings Due to Growth	Annual Openings Due to Replacement	Total Annual Openings
Protective Service	4435	4435	5	112	117
Food Preparation and Serving Related	21285	22155	109	779	888
Building and Grounds Cleaning and Maintenance	10240	10850	61	204	265
Personal Care and Service	7830	8470	65	183	248
Sales and Related	26495	27265	85	833	918
Office and Administrative Support	33410	33365	93	678	771
Farming, Fishing, and Forestry	2910	2960	6	76	82
Construction and Extraction	8375	9110	74	132	206
Installation, Maintenance, and Repair	9895	10470	65	229	294
Production	20375	20050	63	467	530
Transportation and Material Moving	12905	13670	82	288	370

Retrieved from Michigan Department of Technology, Management and Budget: *Michigan Regional Long-Term Employment Projections 2014-2024* (2018). <http://milmi.org/datasetsearch/projections-excel>



# REGIONAL Need – Economic

## 2014-2024 Long Term Projections-Region 5



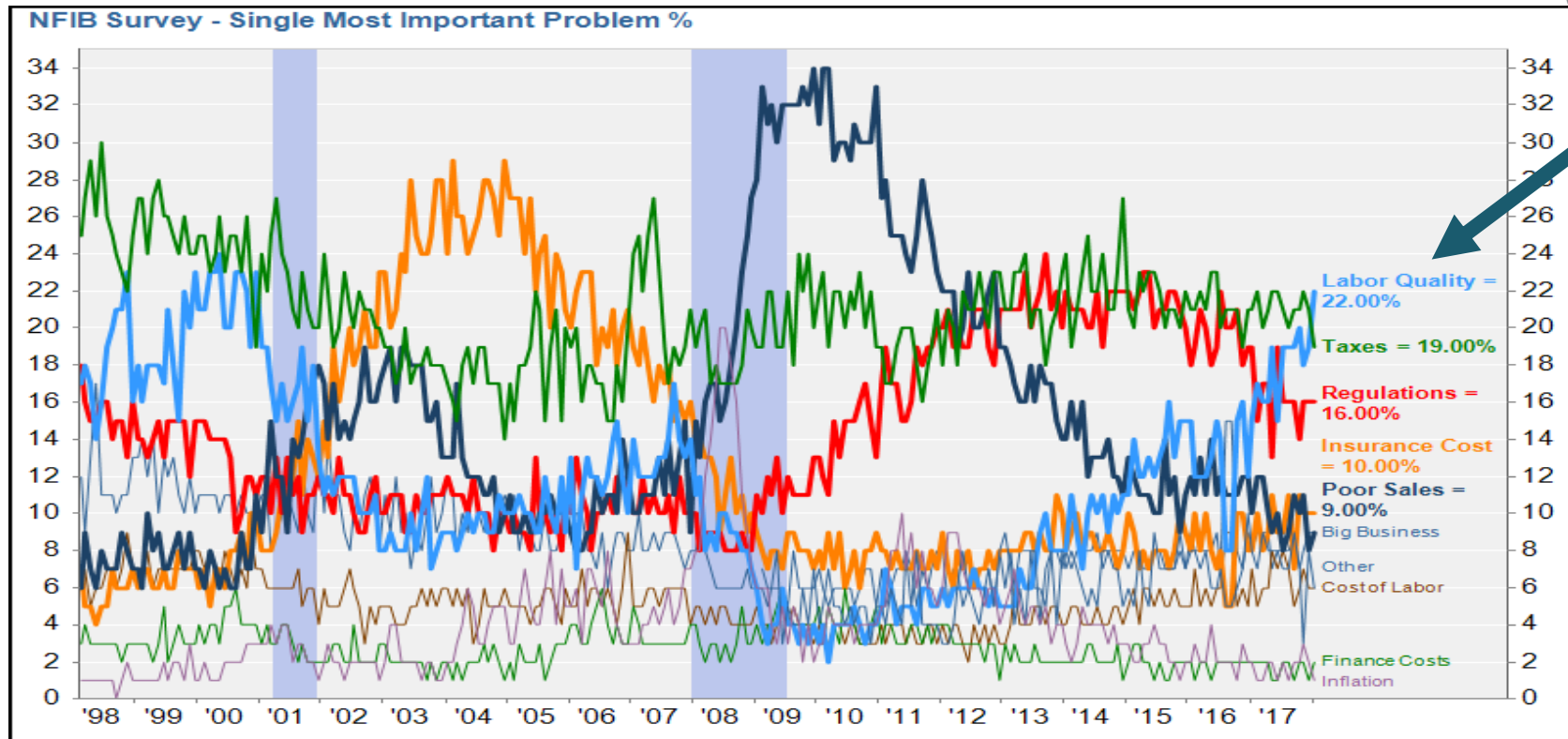
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Retrieved from Michigan Department of Technology, Management and Budget: *Michigan Regional Long-Term Employment Projections 2014-2024* (2018). <http://milmi.org/datasearch/projections-excel>

Birch Run, Bridgeport-Spaulding, Carrollton, Chesaning, Frankenmuth, Freeland, Hemlock, Merrill,  
Saginaw Public, Saginaw Township, St. Charles, Swan Valley, and multiple Charter, Private, Parochial Schools



# NATIONAL NEED - Economic



Augustine, J. (2018). *Huntington 2018 Outlook and Market Overview -- Saginaw* [PowerPoint slide 12]. Primary source: Dunkelberk, W. & Wade, H. (2018). *NFIB Small Business Economic Trends*, p. 18.

# CTE: Saginaw & Bay/Arenac

\*BY CLUSTER (15-16 DATA CTEIS REPORT)



<u><b>Saginaw Career Center</b></u>	<u><b>Saginaw Township Schools</b></u>	<u><b>Frankenmuth</b></u>	<u><b>Standish Sterling</b></u>	<u><b>Bay Arenac ISD Career Center</b></u>
426	136	32	144	1164
Agri/Food (13) Arch & Con (25) Arts/AV Tech & Comm (24) BMA (14) Education (13) <u>Health Science</u> (85) Hospitality (41) Human Services (67) <u>Info Technology</u> (38) Law, Public Safety (48) <u>Manufacturing</u> (19) Trans/Dist/Log (40)	Mark/Sales/Service (136)	BMA (32)	Agri/Food (144)	Agri/Food (37) Arch & Con (101) Arts/AV Tech & Comm (48) Education (42) <u>Health Science</u> (311) Hospitality (78) Human Services (13) <u>Info Technology</u> (109) Law, Public Safety (56) <u>Manufacturing</u> (141) Mark/Sales/Service (49) SCI/Tech/Eng (35) Trans/Distr/Log (144)
	<u><b>Chesaning</b></u>	<u><b>Swan Valley</b></u>		
	236	166		
	Agri/Food (135) BMA (80) Finance (21)	BMA (78) Finance (31) InfoTechnology (57)		

Saginaw County - 27,980    996 CTE = 3.5%

Bay Arenac Counties - 16,579    1,308 CTE = 7.8%

BMA = Business, Management and Administration

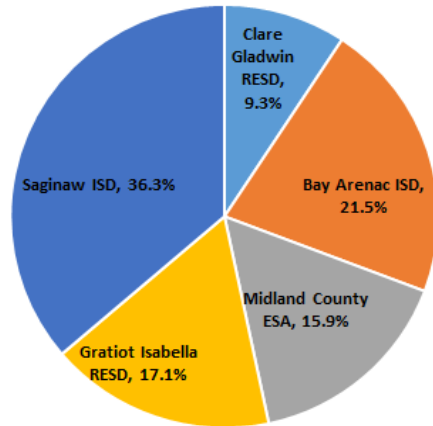
Birch Run, Bridgeport-Spaulling, Carrollton, Chesaning, Frankenmuth, Freeland, Hemlock, Merrill, Saginaw Public, Saginaw Township, St. Charles, Swan Valley, and multiple Charter, Private, Parochial Schools

# ENROLLMENT COMPARISONS

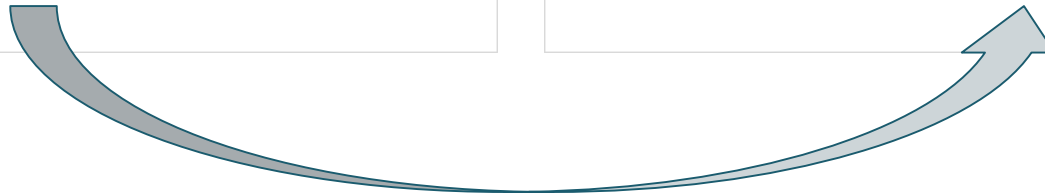
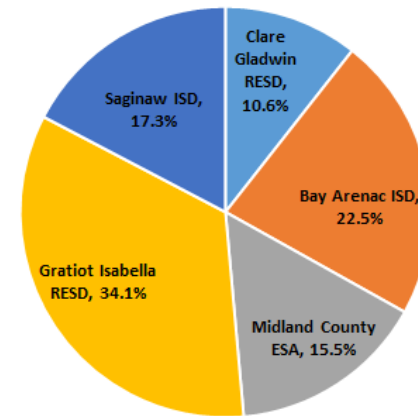
## Regional Perspective (2015-2016)



% Total Student Count



% Regional CTE Students



Data sources: [www.mischooldata.org](http://www.mischooldata.org) and [www.cteisreports.com](http://www.cteisreports.com)

*What happens to the slice of the pie?*

Birch Run, Bridgeport-Spaulding, Carrollton, Chesaning, Frankenmuth, Freeland, Hemlock, Merrill, Saginaw Public, Saginaw Township, St. Charles, Swan Valley, and multiple Charter, Private, Parochial Schools

# CTE FUNDING MODELS



## Millage Funding Model Comparison

ISD	Operation Mills	Special Ed Mills	Voc Ed Mills or Enhancement	Total Pupils	Tax Revenue per Pupil
Bay Arenac	0.1891	2.8403	1.8939	16,579	\$957
Clare Gladwin	0.4075	1.6310	1.0000	7,145	\$794
Gratiot Isabella	0.2640	4.0345	1.0000	13,164	\$1,061
Midland	0.1959	0.9797	1.5000	12,296	\$760
Saginaw	0.1455	1.9417	0.0000	27,980	\$354

### Current Saginaw County Model

Local districts contribute .5 FTE per student enrolled at Saginaw Career Center (\$3,800/student)

# STUDENTS WITH OPPORTUNITY GAPS



- Funding
- Transportation
- Employer Engagement
- Parent Perceptions of Career/College Pathways

- Provide technical assistance, leadership, and coordination for planning activities in the CEPD.
- Oversee program management functions, new CTE programs, financial reports, and data reports for the region.
- Liaison with workforce, community, and economic development to determine program needs.
- Works with local CTE Directors on ensuring that all programs, CTE teacher certifications, and reporting data are in compliance.
- Provide technical assistance for local educational agencies (LEAs) operating or desiring to operate CTE programs.
- Complete program review and evaluation of state-approved CTE programs and submit requested documentation to the Office of Career and Technical Education (OCTE).
- Initiate and develop activities necessary to bring about closer business/industry/education cooperation.
- Initiate activities necessary for the coordination and articulation of programs and services between and among secondary and postsecondary.

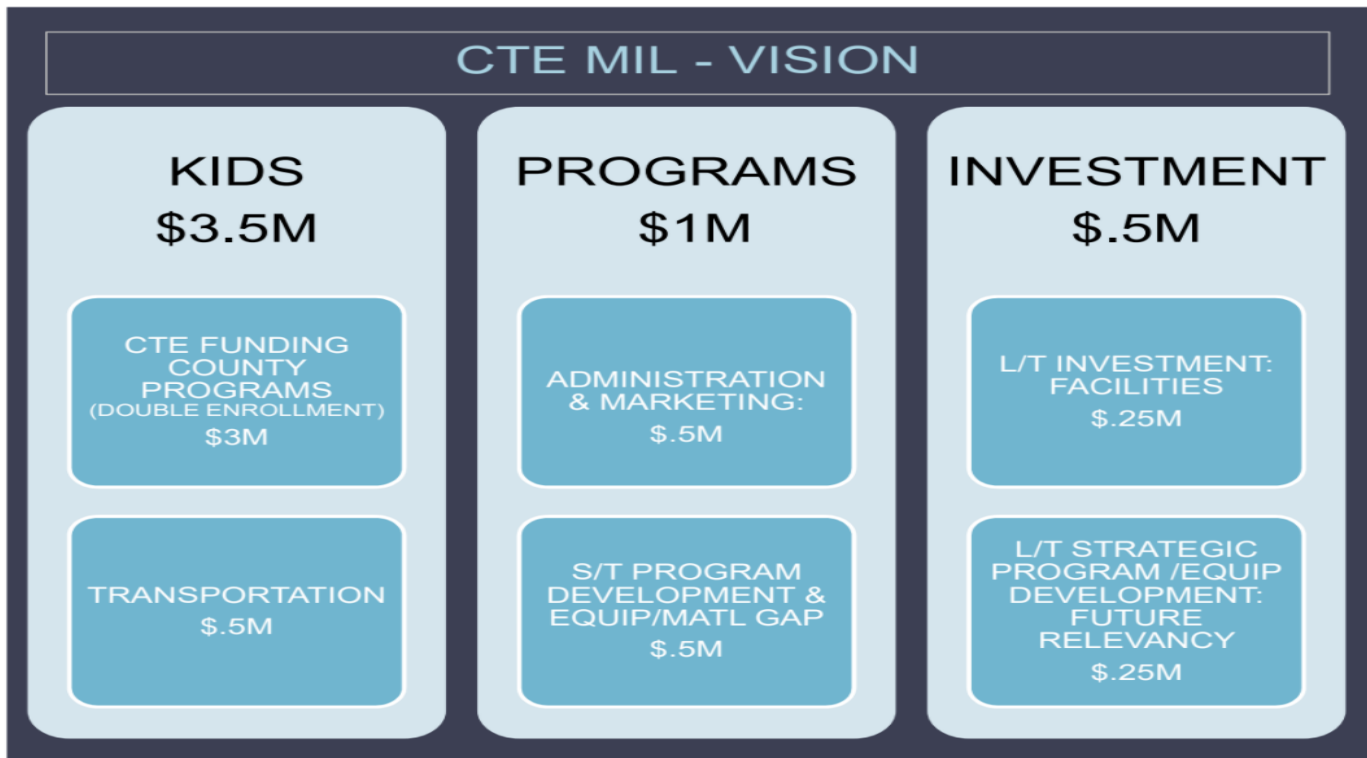
## ***CTE Director and SCC Programs and Staff would be retained by SPSD***

- Provide leadership and coordination of CTE technical skills assessments for the region.
- Provide information about the CEPD and regional programs to the Talent District Career Council and Workforce Development Board.
- Coordinate professional development activities for CTE staff, support staff, career guidance personnel, and appropriate school administrators.
- Coordinate Civil Rights Compliance Review (CRCR) and onsite monitoring Technical Review, Assistance and Compliance (TRAC) workshops for local educational agencies within the CEPD.
- Serve as the primary link for coordinating CTE data collection on the Career and Technical Education Information System (CTEIS), including student follow-up reports.

***CTE Director and SCC Programs and Staff would be retained by SPSPD***



# FUTURE: what could a millage provide?



## Enrollment Expenses

- LEA districts invoiced for students enrolled in programs meeting Saginaw county wide definition
- LEAs provide copy of invoice to SISD
- Districts reimbursed

## Transportation

- Reimbursement for transportation costs
- Districts encouraged to collaborate (Chesaning/St. Charles example)
- Limited to \$500,000

## Equipment/New Programs

- Advisory Board
  - LEAs
  - Business, Government, Parents, Students, etc.
  - Provide recommendations to SISD Board of Education
- Grants, Private Funders, etc.

# FUTURE: EDUCATION STEPPING FORWARD



- Career Cruising - Grades 6 -12
- Career/College Advisors
- CEPD Transfer Vote
- November, 2018 countywide millage vote
- 2018-2019 New Opportunities for Students
  - *Heating, Ventilation, and Air Conditioning (HVAC) - Delta*
  - *Computer Numerical Control Machining (CNC) - Delta*
  - *CyberSecurity*
  - *Insurance Leadership Academy - Frankenmuth Insurance/Northwood University*
  - *MMR - EMT to Paramedic*
  - *AIS - Heavy Equipment Technician - Work Based Learning*

# FUTURE: connecting business/education



**MI Bright FUTURE**

MI Bright Future helps Michigan students secure their future.

Find out more →

Register Your Business →

Become a Career Coach →

[www.mibrightfuture.org](http://www.mibrightfuture.org)

# CTE IS GOOD FOR ALL KIDS!

Students are more likely to achieve in other subjects and **graduate**.

80% of students taking a college preparatory academic curriculum with rigorous CTE met **career and college readiness goals**, compared to only 63% of students taking the same academic core who did not experience rigorous CTE.

Students **gain job-specific skills** related to a specific career pathway, along with **high school** and **college academic credit** and **industry certifications** that gives them an edge!

Students develop **employability skills**.

**Bottom line: *CTE is good for ALL kids, giving them a competitive edge on their career goals--in many cases with little to zero debt!***

## Examples

- Pathway out of Poverty
- Experiential Learning
- Professional Pathway

**CTE can change a child's life and have a lasting impact on THEM and their COMMUNITY.**

# QUESTIONS



# THANK YOU

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