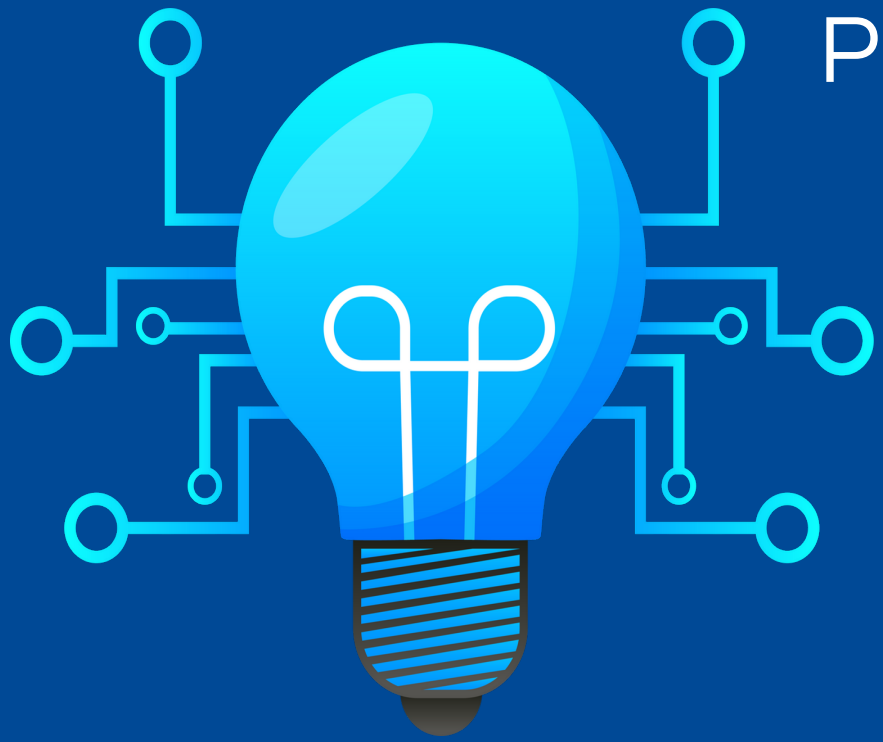
2023 WV EDUCATION SUMMIT

AI & the Future of Work

Partnerships for Student Success



October 11, 2023

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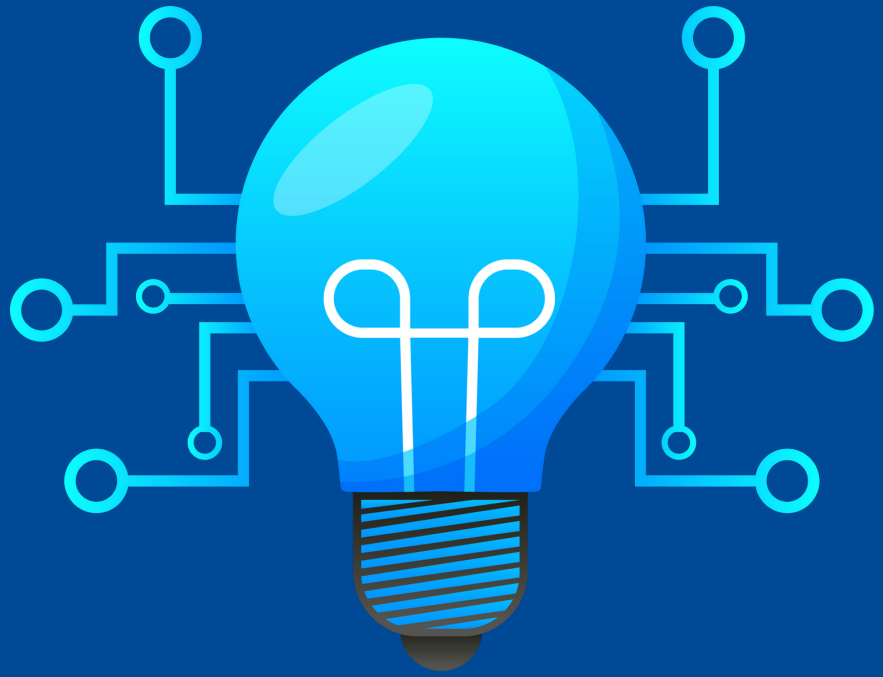

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Placing Skills at the Center

What It Takes to Prepare Students for Career Success in a Rapidly Changing Future

Matt Sigelman
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West Virginia Education Alliance
October 11, 2023

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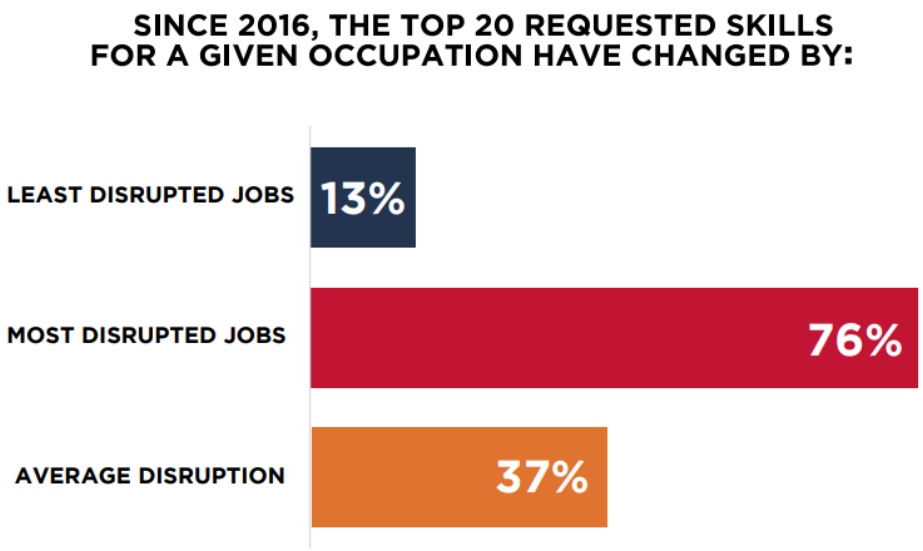
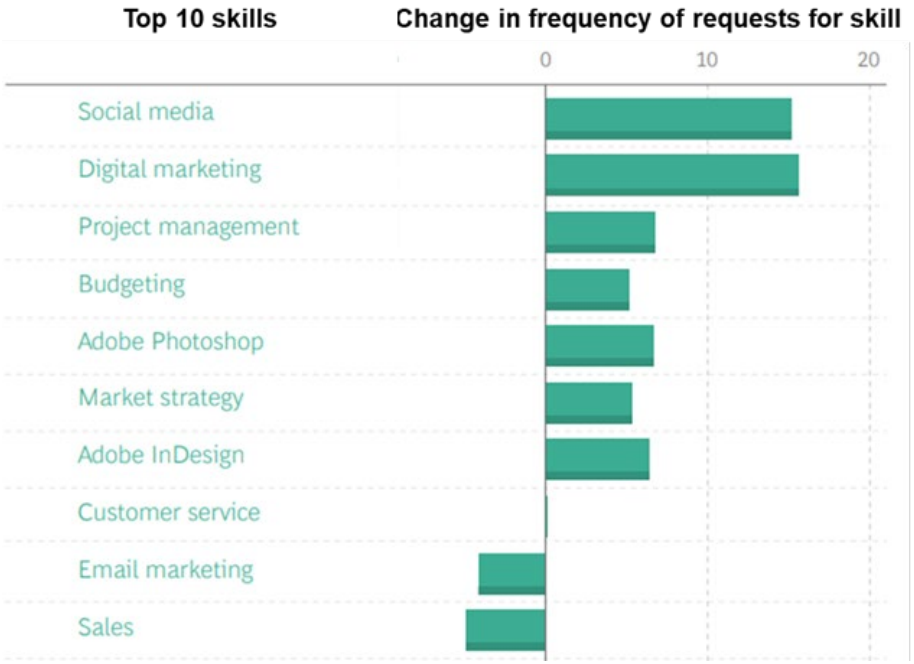
The Skills, They Are A-Changin'

37% of the skills of the average job have been replaced over the past five years. What does it take to keep up?

In the top quartile of jobs, **three-quarters of the skill requirements have changed** over the past five years.



These skills are bearing out across every occupation. Half of the skills required of a Marketing Assistant are new.

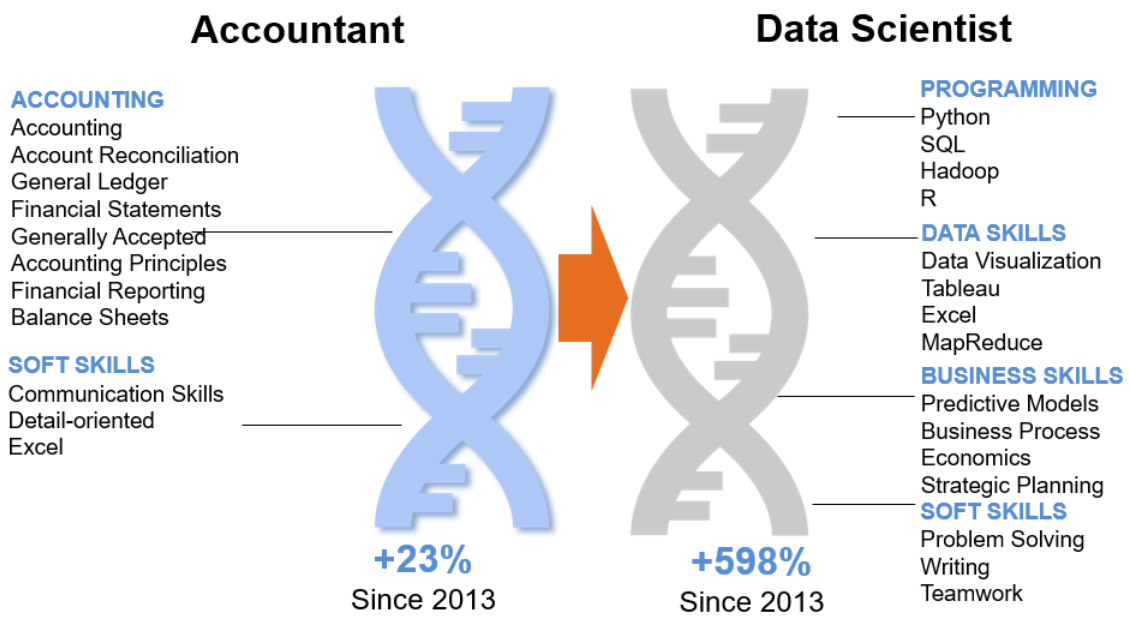


Source: Burning Glass Institute analysis of Lightcast data

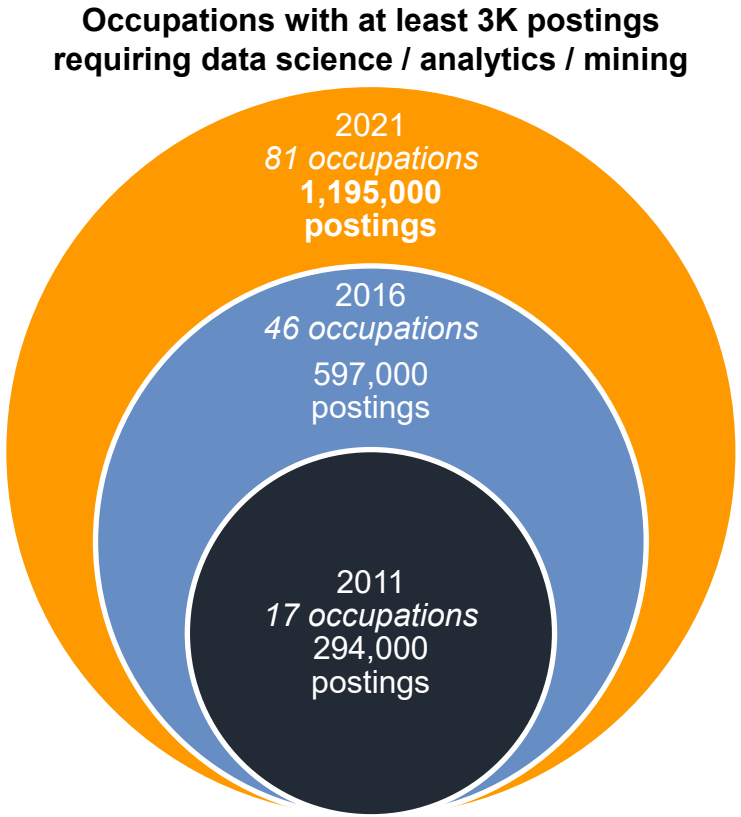
Jobs Are Evolving in Profound Ways

Jobs increasingly require new skills from across domains, challenging existing curricular structures

Careers are colliding, leading to the emergence of a hybrid skill genome

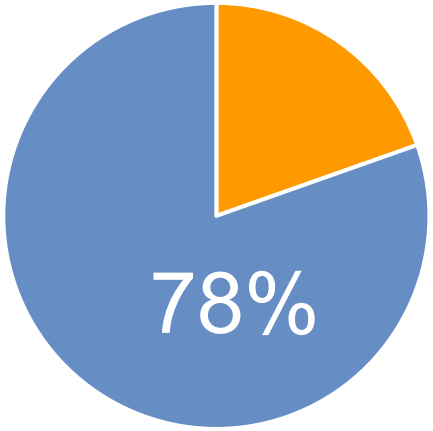


Skills Not Jobs: Data science skills aren't just for data scientists

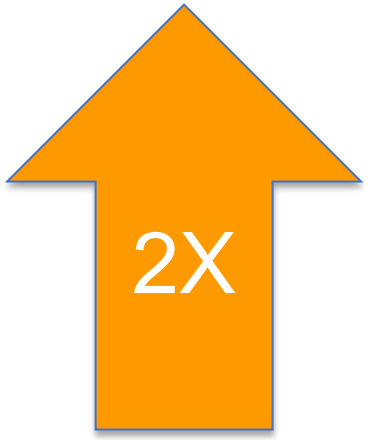


A Sea Change In Middle Skills Too

Digital Skills: A Minimum Ticket To Ride



Of middle-skill jobs require digital skills



Digitally intensive jobs are growing twice as fast as other middle-skill jobs

Digitally intensive jobs are twice as likely to pay a living wage

New Growth, New Skills

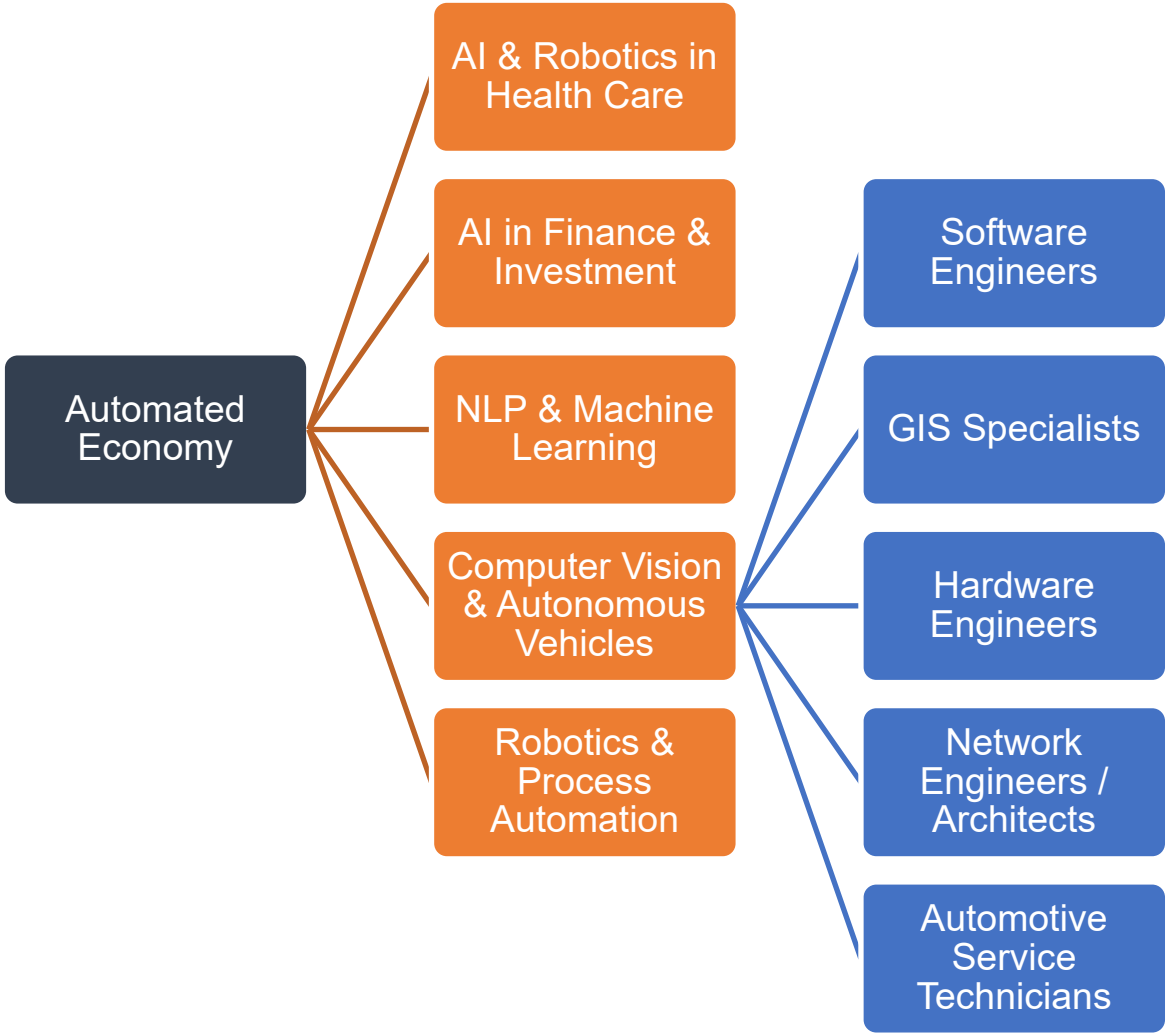
Five emerging economies will create millions of new jobs in the next five years – but many will require new skills, exacerbating gaps

	50% Increase Scenario	
Economy	**Growth Rate**	**5-Year Openings Projection**
Readiness	12.10%	1,756,874
Logistics	4.83%	4,549,046
Green	12.79%	866,902
Remote	16.67%	6,282,331
Automated	28.82%	4,548,798

Source: Burning Glass Technologies

New Skills for New Opportunity

Even in familiar careers, the skills required will be different



Key Emerging Skills

- Deep Learning
- ROS
- SLAM

- Machine Learning
- Hazard Identification
- Intelligent Analysis
- Object-Oriented Dev

- Robotics
- ROS
- Machine Learning

- LiDAR
- Computer Vision
- Autonomous Systems

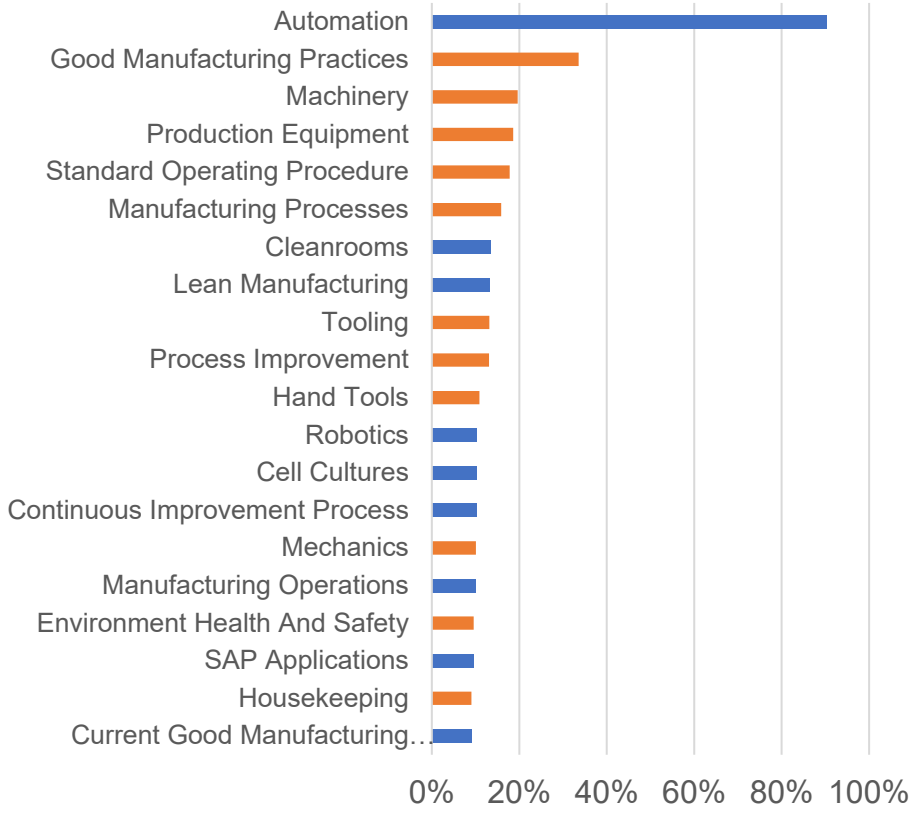
- Predictive Maint.
- Electrical Systems
- Test Equipment

Not Just Cut and Paste

New technologies are reshaping careers. Students may need entirely different sets of skills.

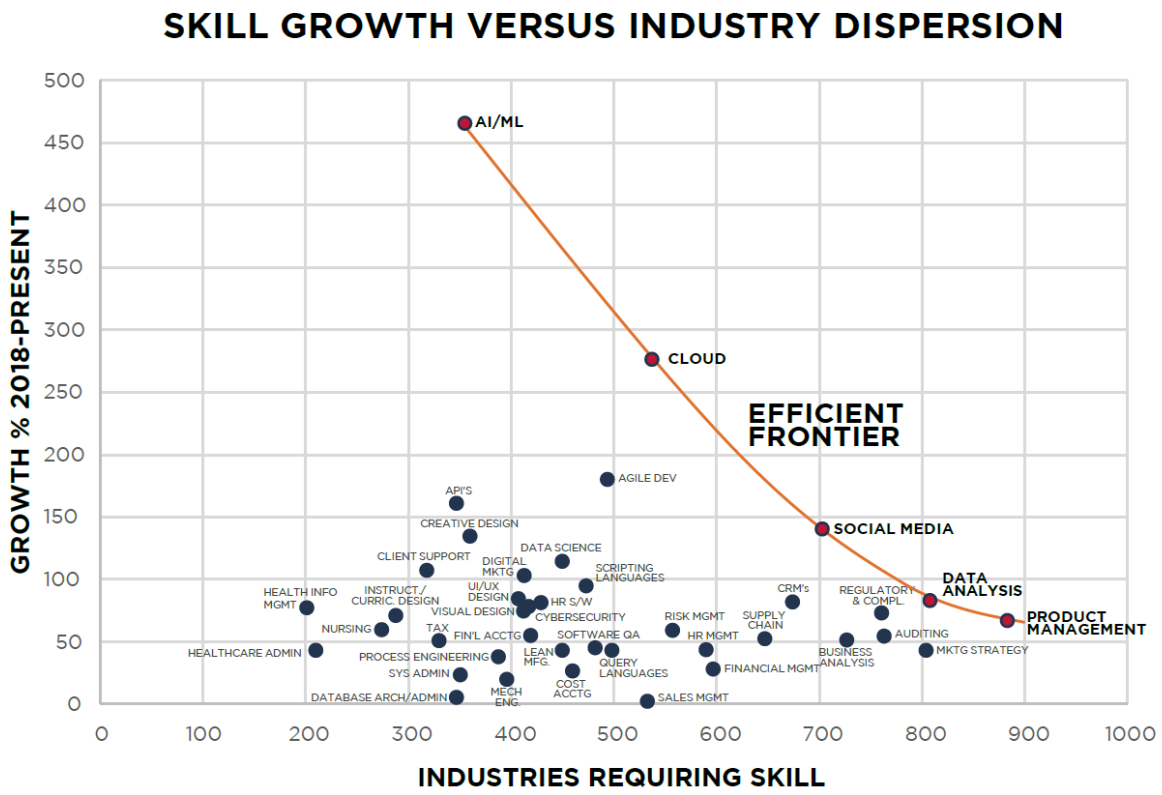
What skills do employers expect of Manufacturing Technicians?

What skills are expected of Manufacturing Technicians working with robotics?



Five Emerging Skill Clusters

Define the Efficient Frontier of Disruption



- We mapped skill growth vs. dispersion across occupations. This combination shows how much a skill is growing as well as how quickly it is expanding to new domains and occupations.
- Although they fall at very different points on the graph, five distinct skill sets stand out: **AI/ML, Cloud Computing, Product Management, Data Analysis, and Social Media.**

Source: Burning Glass Institute analysis of Lightcast data

GenAI Isn’t Game Over, But It Raises the Bar

Some of the careers **most impacted by AI** will see **more demand, not less.**

Generative AI will touch many roles. In some it raises the floor. **In the ones most worth having, it raises the bar.**

How Generative AI Will Transform Skills

Just as computers changed what students need to learn to be digitally competitive, educators should shift attention from automatable capabilities toward areas of growing value

Compared to previous generations of workers, many of today's K-12 students will need a different set of skills to thrive in the workforce.

Skills that will grow in demand

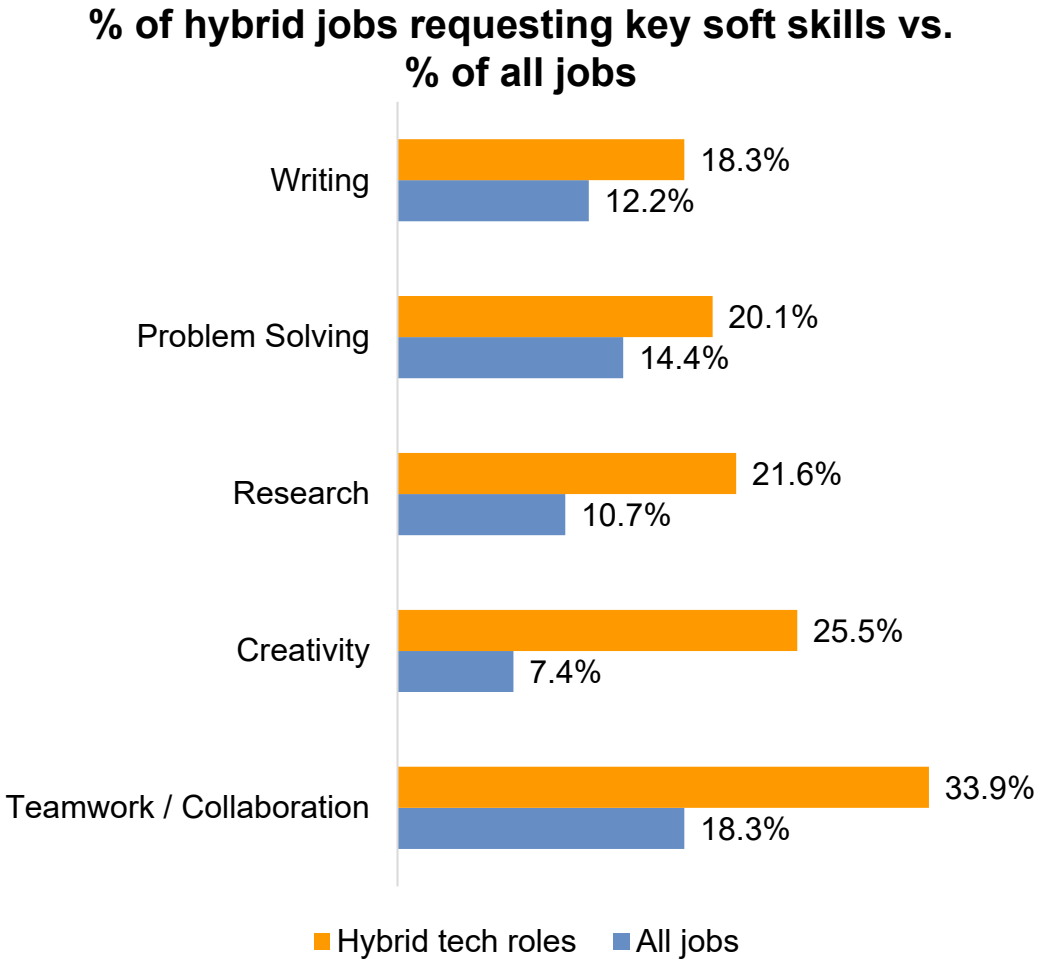
- Creative and judgment skills
- Skill insulated from digitalization
- Skills that are used to build AI tools or optimize outputs from LLMs
- Cybersecurity

Skills that will decline in demand

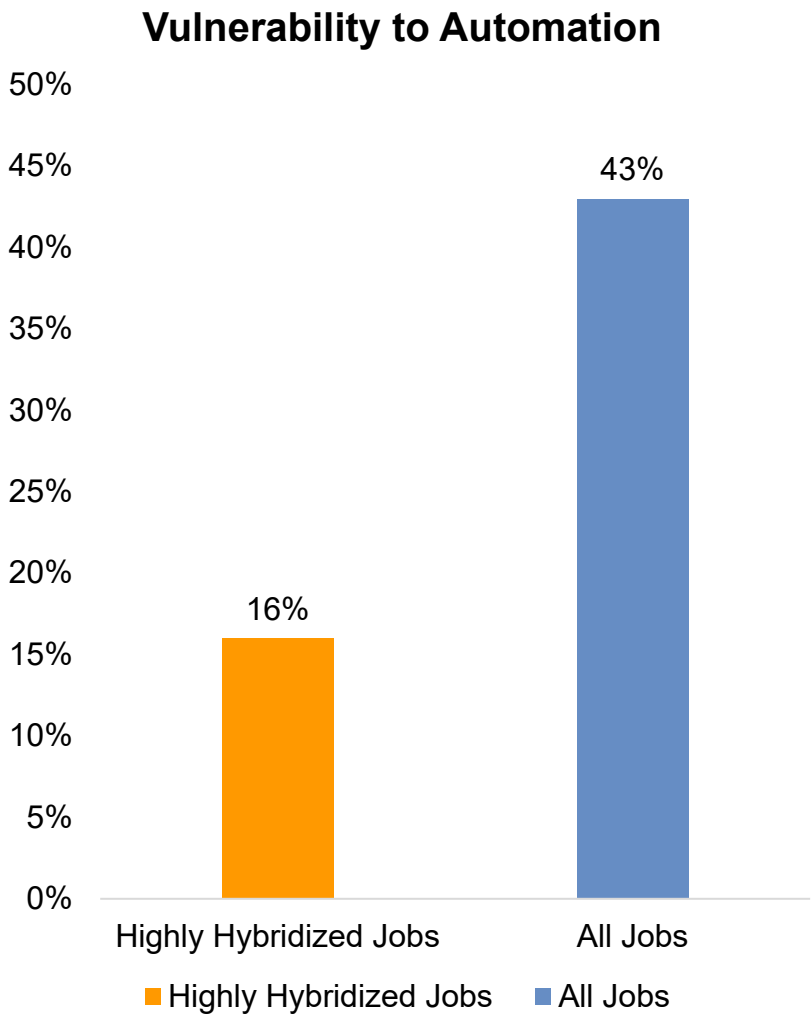
- Copywriting
- Simple coding
- Web development
- Simple data analysis
- Familiarity with business related software

Foundational Skills are Increasingly Important

New economy work has more intensive demand for what's human



Source: Burning Glass Technologies



The New Foundational Skills

Even as we double down on the core, the set of skills in common across high-value careers

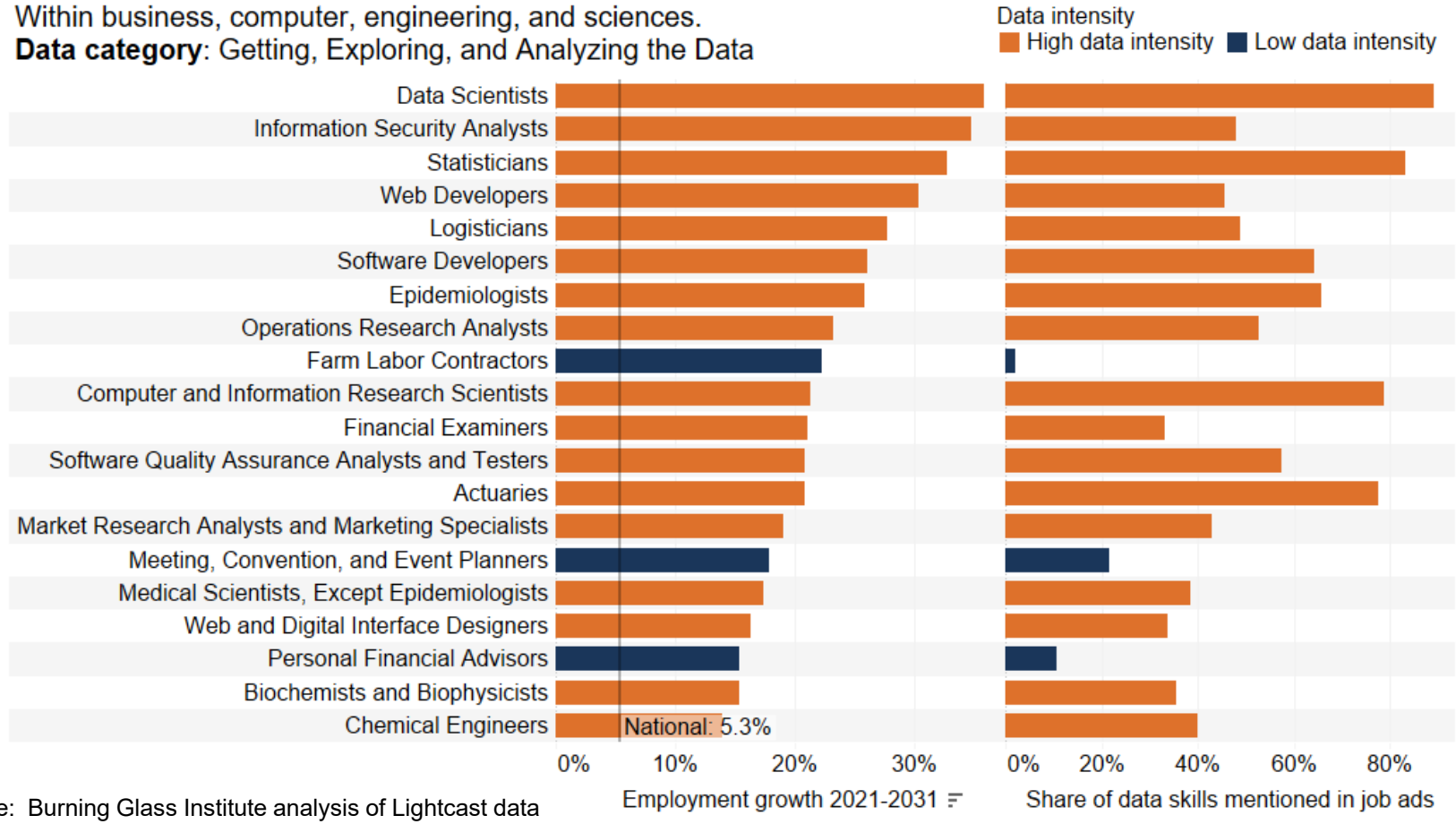
Foundational Skill Group	Foundational Skill Area	Total Openings in Entry-Level Postings in BA-plus SOCs: March 2019 - Feb 2020	Growth in Number of Postings: 2017-2019	Share of Openings Outside IT and Analysis Job Families	Average Salary Premium
Business Enablers	Business Process	370,883	29%	67%	12%
	Project Management	281,999	51%	69%	14%
	Digital Design	152,960	44%	64%	-
	Communicating Data	39,897	101%	34%	27%
Digital Building Blocks	Managing Data	292,817	49%	28%	34%
	Analyzing Data	217,623	48%	55%	21%
	Software Development	263,261	48%	17%	43%
	Computer Programming	203,328	56%	13%	45%
	Digital Security and Privacy	67,879	30%	29%	38%
Human Skills	Communication	1,264,535	48%	81%	-
	Collaboration	595,402	58%	79%	2%
	Critical Thinking	587,966	52%	66%	0%
	Analytical Skills	490,311	44%	76%	1%
	Creativity	276,003	60%	82%	-

Source: Burning Glass Technologies

The Data Science Boom Underscores this Trend

1 in
proj

Top 20 jobs projected to grow the fastest.
Within business, computer, engineering, and sciences.
Data category: Getting, Exploring, and Analyzing the Data

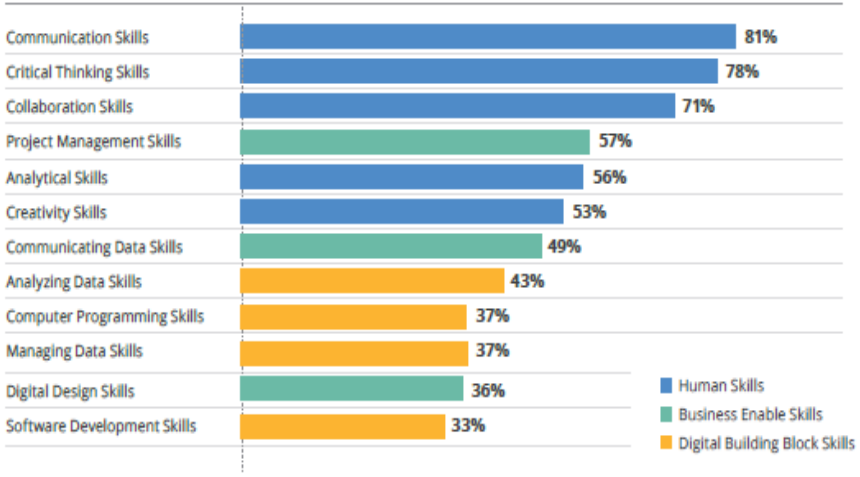


Source: Burning Glass Institute analysis of Lightcast data

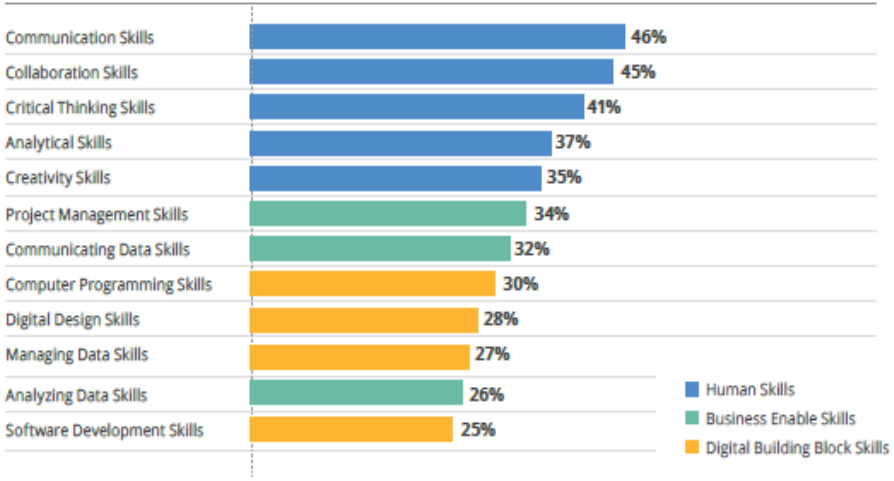
The Foundational Skill Instructional Gap

Too few educators see the full range of foundational skills as essential. Even fewer believe their schools are teaching these skills very well.

Percent of educators who say that it is *essential* to provide the opportunity to learn these skills



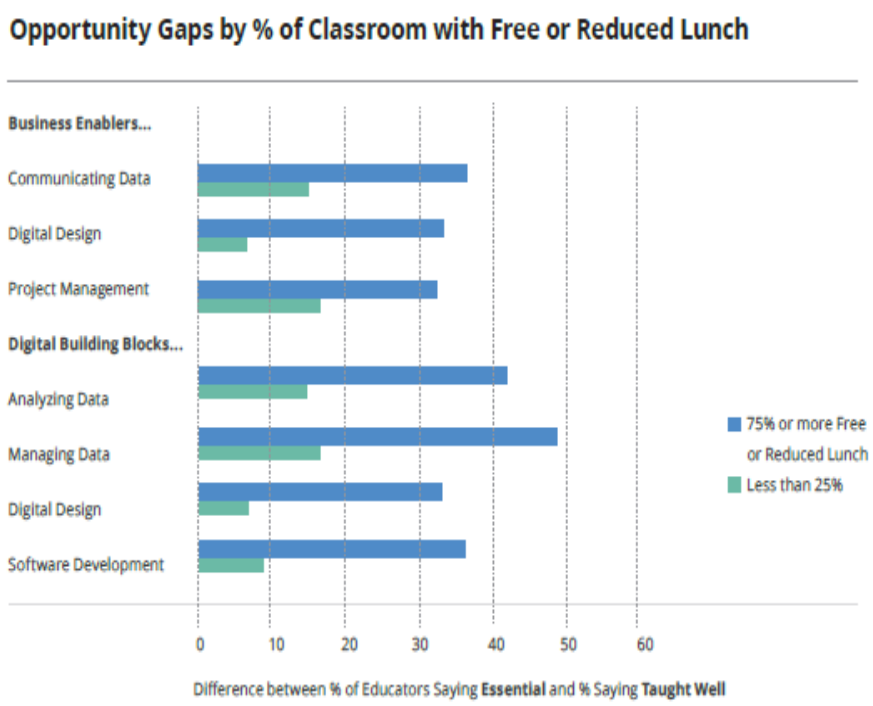
Percent of educators who say their school or classroom teaches these skills very well

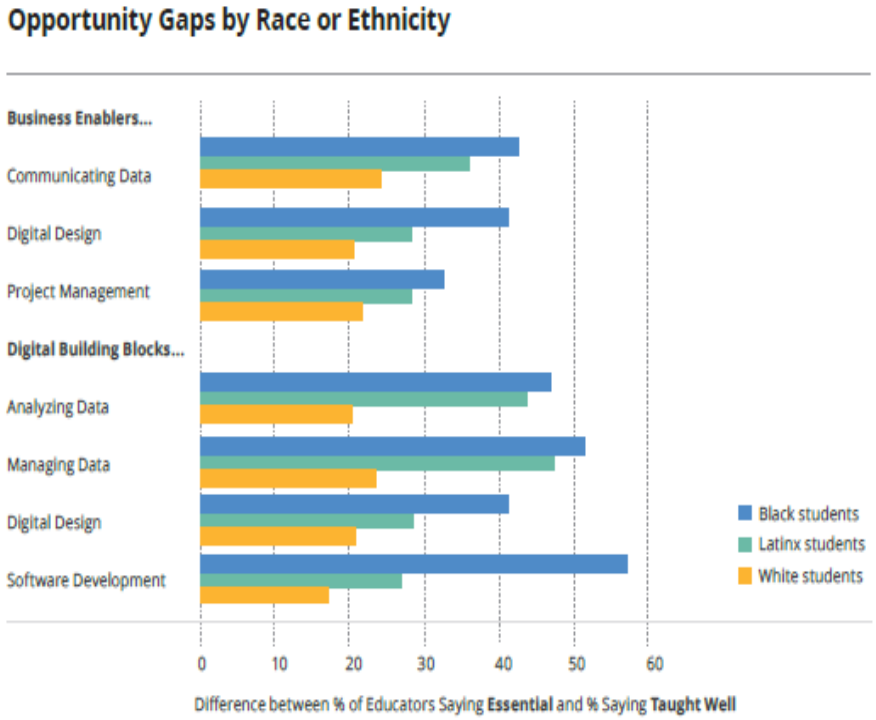


Source: Burning Glass Technologies

Gaps Greater for Low Income & Minority Students

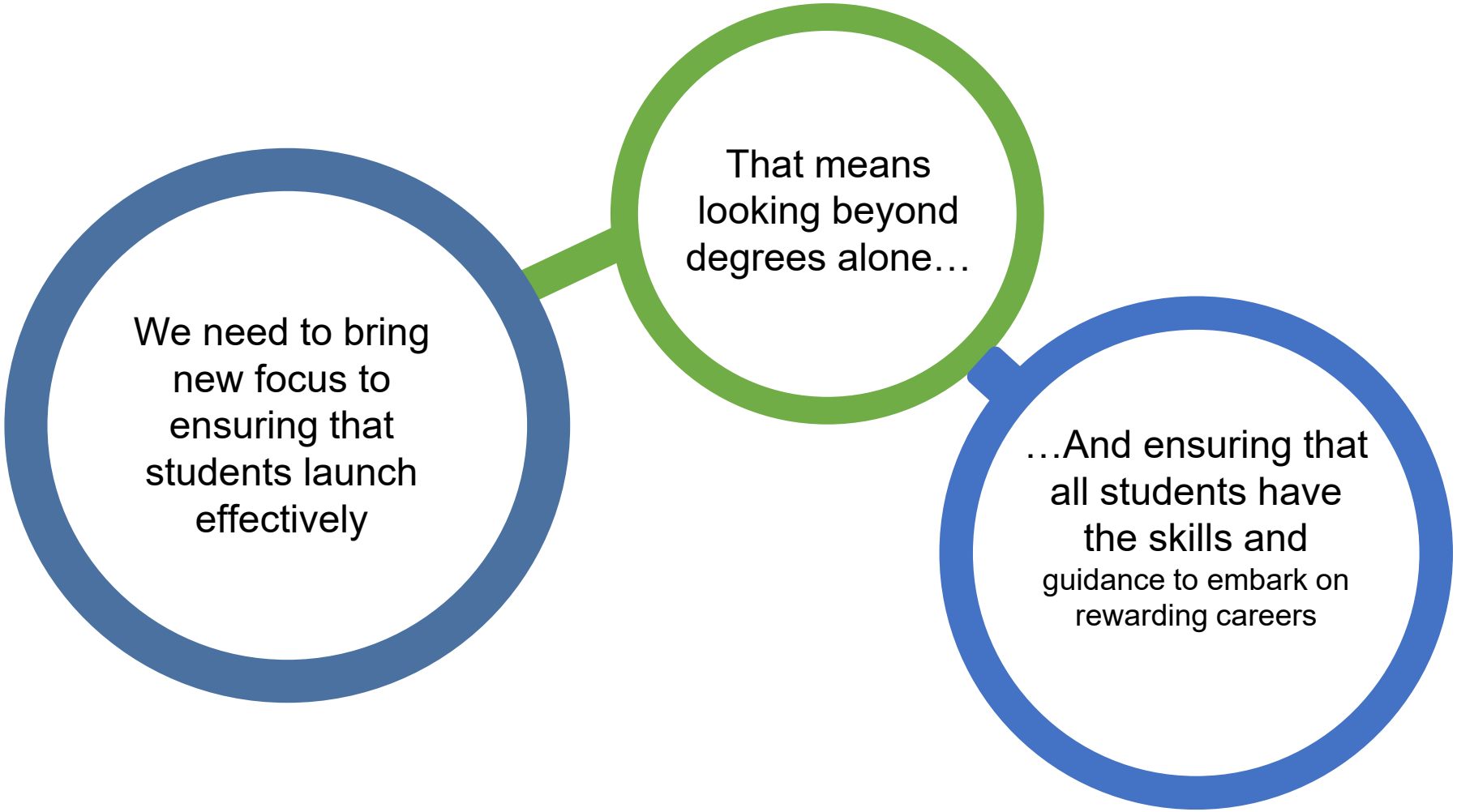
Educators in low income & diverse schools are more likely to value the new foundational skills – but less likely to believe they are taught well





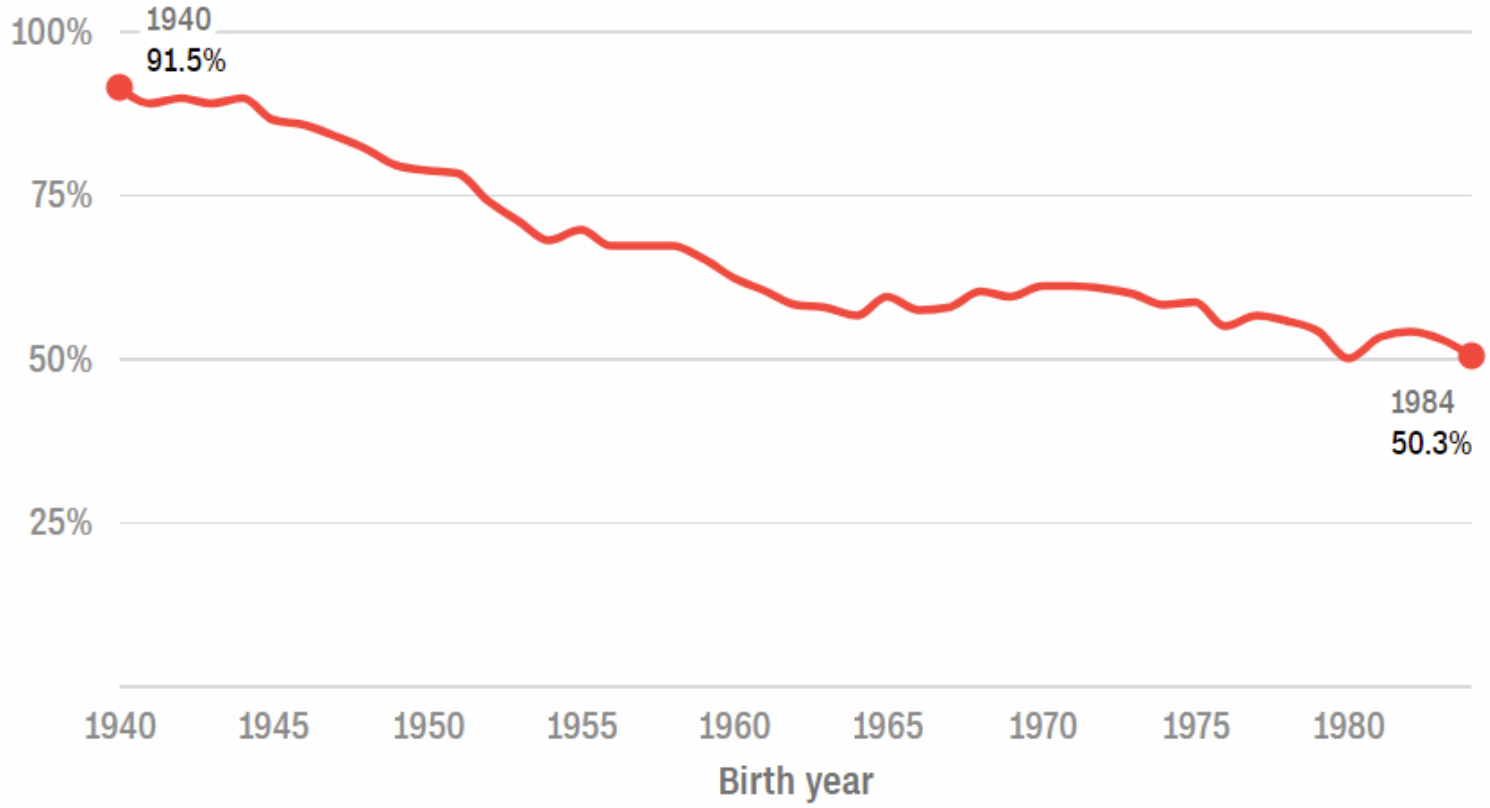
Source: Burning Glass Technologies

An Emerging Imperative for Our Schools



What Happens to an American Dream Deferred?

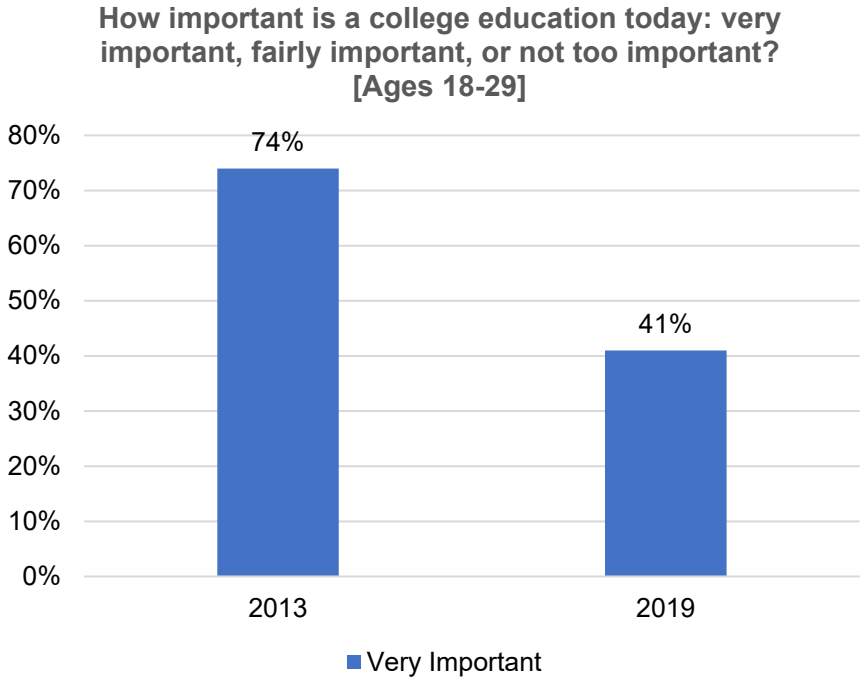
Economic mobility has fallen precipitously. Our schools can play an important role in preparing students to rise.



Losing Confidence

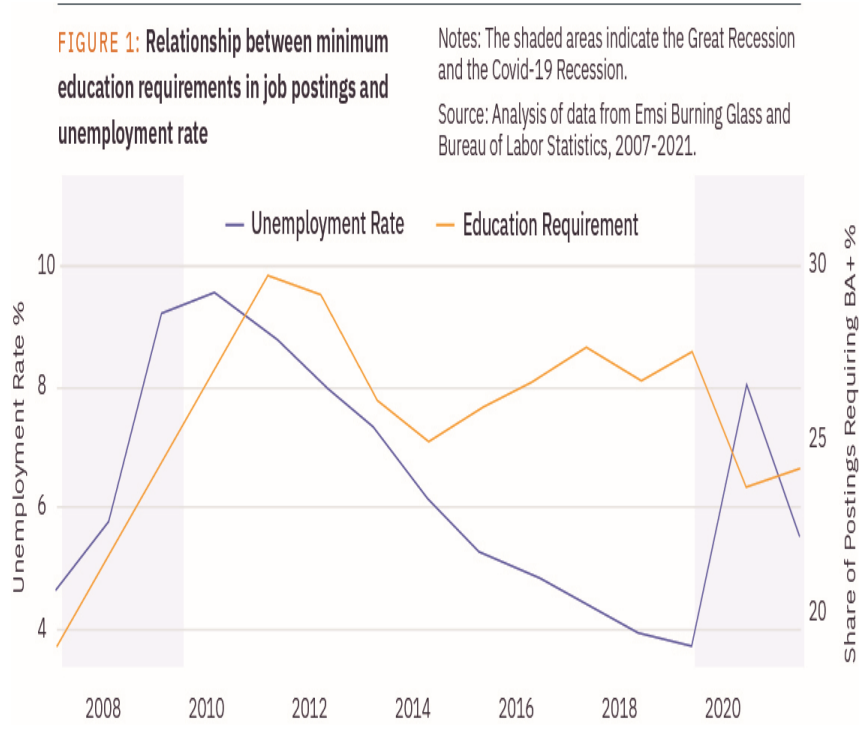
Both the public and industry no longer take it on faith that degrees are singularly valuable

Major change in public perception: The percent of Americans 18-29 who view college education as important has fallen fast



Source: Gallup

Skills-based hiring is taking off: It's good when employers hire for skills, not degrees but what does that mean for higher ed?



Source: Burning Glass Institute analysis of Lightcast data

The BA is Still Worth It

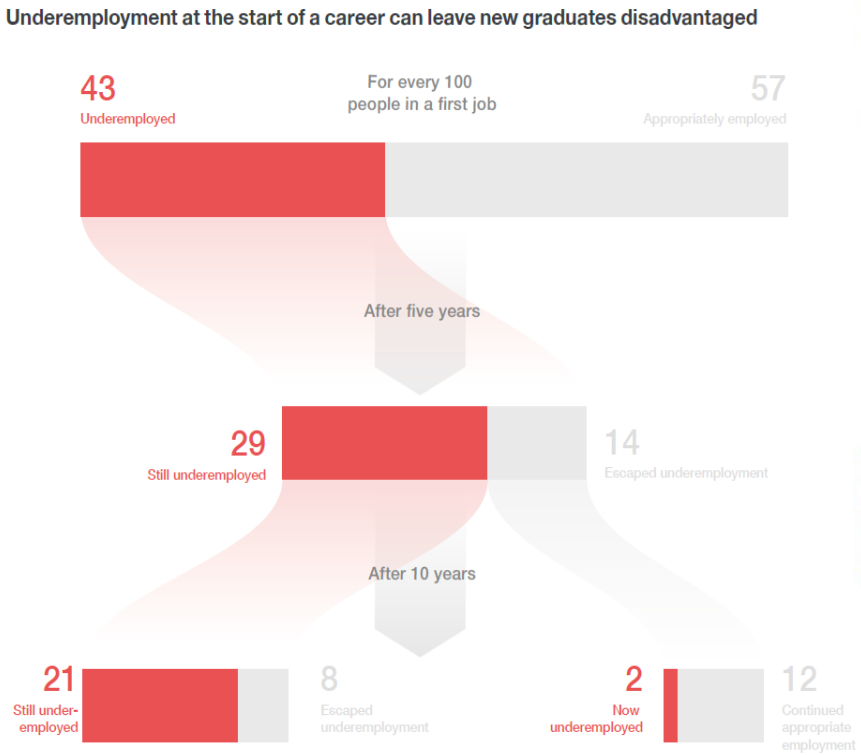
Degree holders earn a 25% premium that persists, driven by greater upward mobility

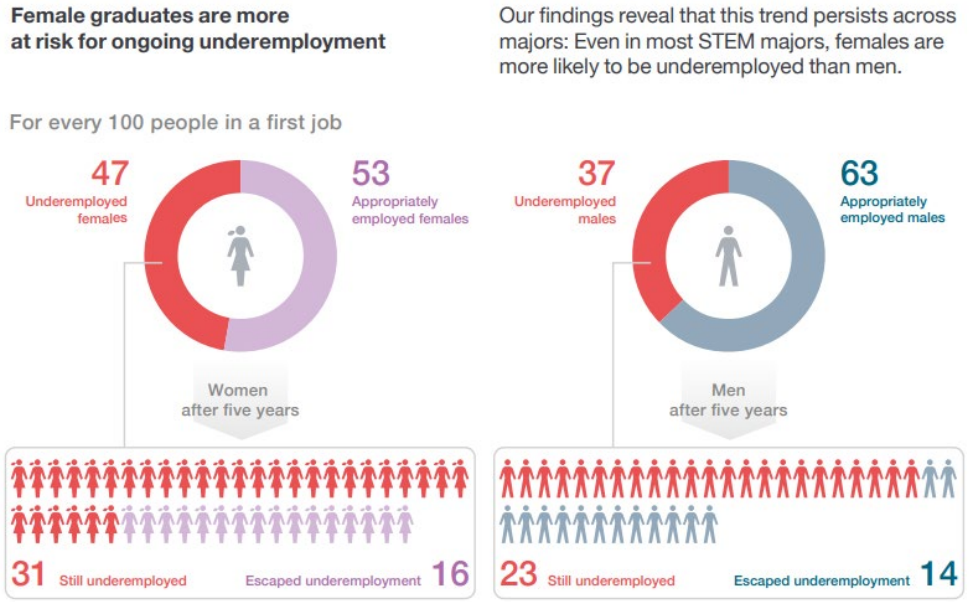
But a Degree was Never a Guarantee

Even in a hot market, many grads fail to launch

4 in 10 college students graduate into jobs that don't require their degree. Half are still underemployed after a decade

It's worse for women. Women are 27% more likely to wind up underemployed vs. men, with gaps across almost every major

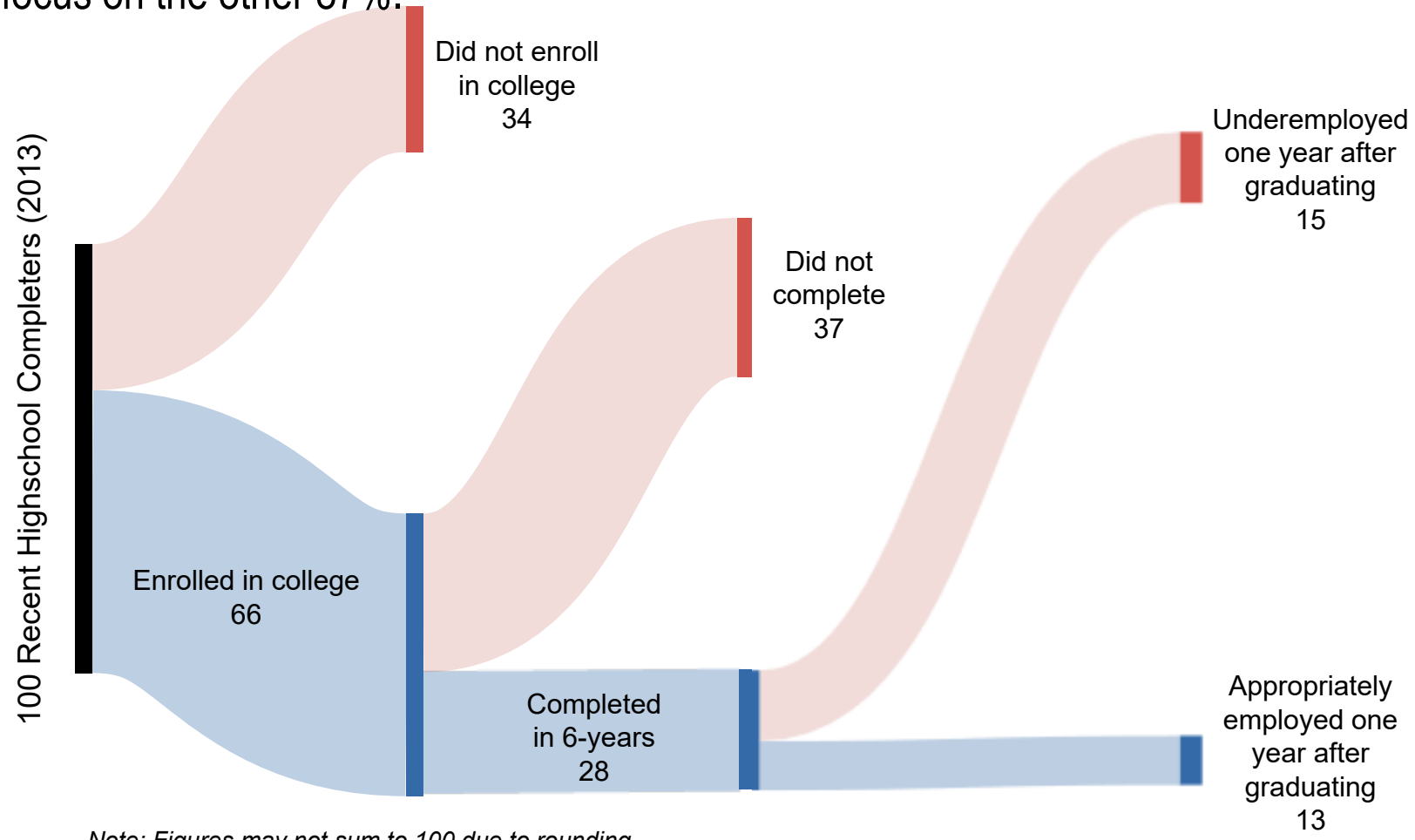




Source: Burning Glass Technologies

College-or-Bust Leaves Out Too Many Students

Only 13% of HS grads will wind up in a job that requires a college degree. It's time to put more focus on the other 87%.



Note: Figures may not sum to 100 due to rounding.

Source: Burning Glass Institute analysis

To End the False Choice of College or Career,

Make Career & Technical Education Work

A 50-state analysis of CTE programs found that, overall, only 19% of the credentials earned in CTE programs are in demand with employers while many certifications that hold the keys to good careers go undersupplied.

Rank	Credential	Credential Type	Credentials Earned	Percent Oversupplied	Supply/Demand Category	State Count
1	Microsoft Office Specialist		129,895	--		19
2	W!SE Financial Literacy Certification		67,208	100%		7
3	NCCER - Core Curriculum		60,350	100%		12
4	Adobe Certified Associate		52,189	78%		19
5	Virginia Workplace Readiness Skills for the Commonwealth		42,313	100%		1
6	Basic First Aid		36,102	100%		11
7	NCCER - Carpentry		33,392	100%		14
8	IC3 Certification		22,840	100%		13
9	Automotive Service Excellence Certification		22,726	16%		24
10	ServSafe Certification (Manager/ Food Handler/Allergens/Alcohol)		21,634	47%		20

Rank	Credential	National Demand	Percent Undersupplied	Supply/Demand Category	Median Salary
1	Certified Medical Assistant	181,281	100%		$31,235
2	Automotive Service Excellence Certification	170,866	34%		$44,269
3	Certified Pharmacy Technician	142,835	100%		$32,344
4	ServSafe Certification (Manager/ Food Handler/Allergens/Alcohol)	92,757	41%		$31,617
5	CompTIA Security+	76,409	100%		$82,296
6	Cisco Certified Network Associate	70,466	100%		$81,480
7	CompTIA A+	70,101	100%		$43,226
8	Certified EEG/EKG/ECG Technician	40,956	100%		$50,132
9	AWS Certified Welder	26,143	57%		$42,652
10	NCCT Medical Assistant	17,247	28%		$31,330

Note: This table is limited to credentials demanded in at least two states. For data specific to a state, see CredentialsMatter.org. Percent Undersupplied and Supply/Demand Category are based on comparing credentials earned to demand data from just those states that provided data.

Source: Burning Glass Technologies

ExcelinEd

Invest in Guidance So That Every Student Can Find

The Jobs That Offer the Best Path Up

FRB economists leveraged Burning Glass data to identify Opportunity Occupations – well paying jobs open to those without a college degree.

					SHARE OF EMPLOYMENT		
Rank	Occupation Code	Occupation Title	Opportunity Employment	Total Employment Analyzed	Opportunity Employment	Higher Wages, Bachelor's Degree Required	Lower Wages
1	29-1141	Registered Nurses	1,374,014	2,086,530	65.9%	34.1%	0.0%
2	53-3032	Heavy and Tractor-Trailer Truck Drivers	1,032,790	1,109,200	93.1%	0.0%	6.9%
3	43-3031	Bookkeeping, Accounting, and Auditing Clerks	581,455	1,100,950	52.8%	37.4%	9.8%
4	49-9071	Maintenance and Repair Workers, General	491,285	910,140	54.0%	0.0%	46.0%
5	47-2031	Carpenters	457,460	498,780	91.7%	0.0%	8.3%
6	47-2111	Electricians	453,790	453,790	100.0%	0.0%	0.0%
7	29-2061	Licensed Practical and Licensed Vocational Nurses	446,360	446,360	100.0%	0.0%	0.0%
8	43-1011	First-Line Supervisors of Office and Administrative Support Workers	433,025	1,097,410	39.5%	60.5%	0.0%
9	11-1021	General and Operations Managers	432,315	1,664,070	26.0%	74.0%	0.0%
10	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	426,495	1,059,600	40.3%	59.5%	0.3%
11	33-3051	Police and Sheriff's Patrol Officers	405,652	461,450	87.9%	12.1%	0.0%
12	41-3099	Sales Representatives, Services, All Other	370,776	824,430	45.0%	53.8%	1.2%
13	41-1011	First-Line Supervisors of Retail Sales Workers	368,040	816,260	45.1%	21.3%	33.7%
14	49-3023	Automotive Service Technicians and Mechanics	338,550	440,280	76.9%	0.0%	23.1%
15	47-2152	Plumbers, Pipefitters, and Steamfitters	313,670	314,670	99.7%	0.0%	0.3%
16	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	284,418	1,603,040	17.7%	5.1%	77.2%
17	47-2061	Construction Laborers	270,250	672,670	40.2%	0.0%	59.8%
18	15-1151	Computer User Support Specialists	262,827	499,570	52.6%	47.1%	0.3%

Source: Federal Reserve Banks of Philadelphia & Cleveland

Burning Glass and JFF analyzed the landscape of middle-skill employment to identify which occupations offer good pay and stability, which ones offer upward mobility – and which ones offer neither.

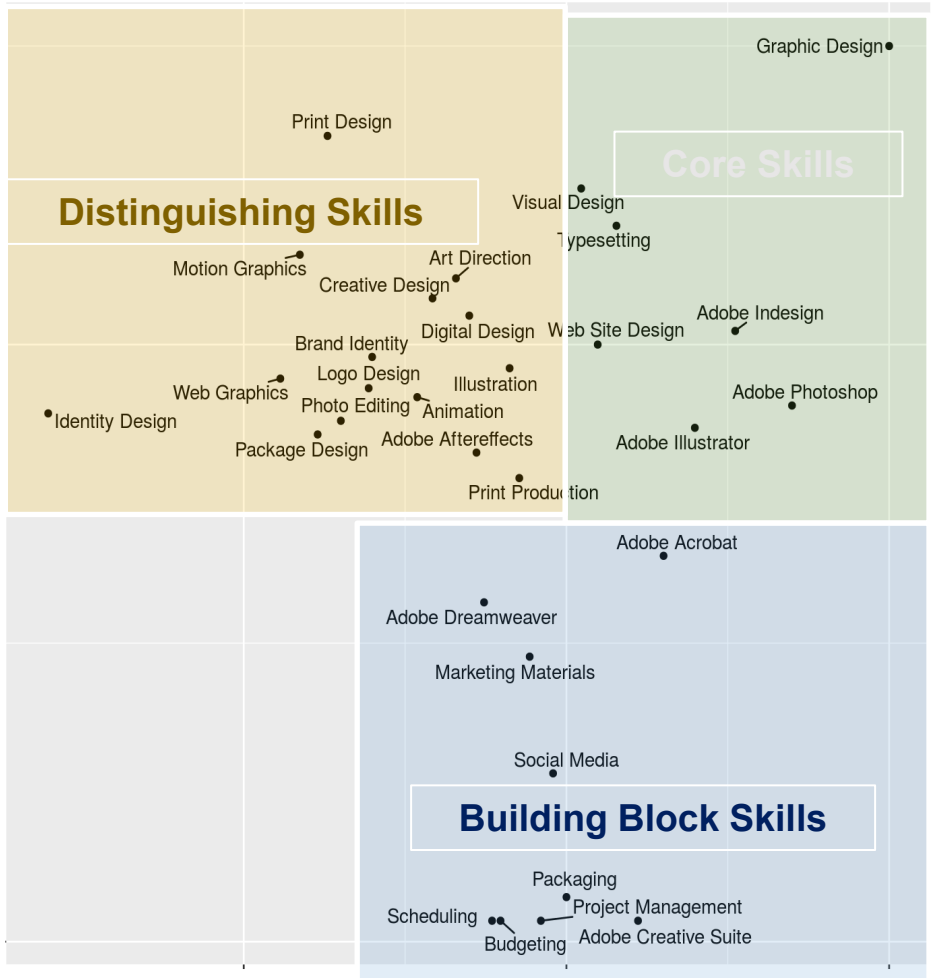
Career Areas: Percent of Employment by Opportunity Category

BUSINESS	LIFETIME JOBS	SPRINGBOARD JOBS	STATIC JOBS
HEALTH CARE	**55%**	5%	40%
BUSINESS	20%	**80%**	1%
IT	16%	**84%**	0%
MANUFACTURING	38%	0%	**62%**

Source: Burning Glass & JFF

Teach the Skills That Matter

Graphic Designer / Desktop Publisher (BGTOcc)



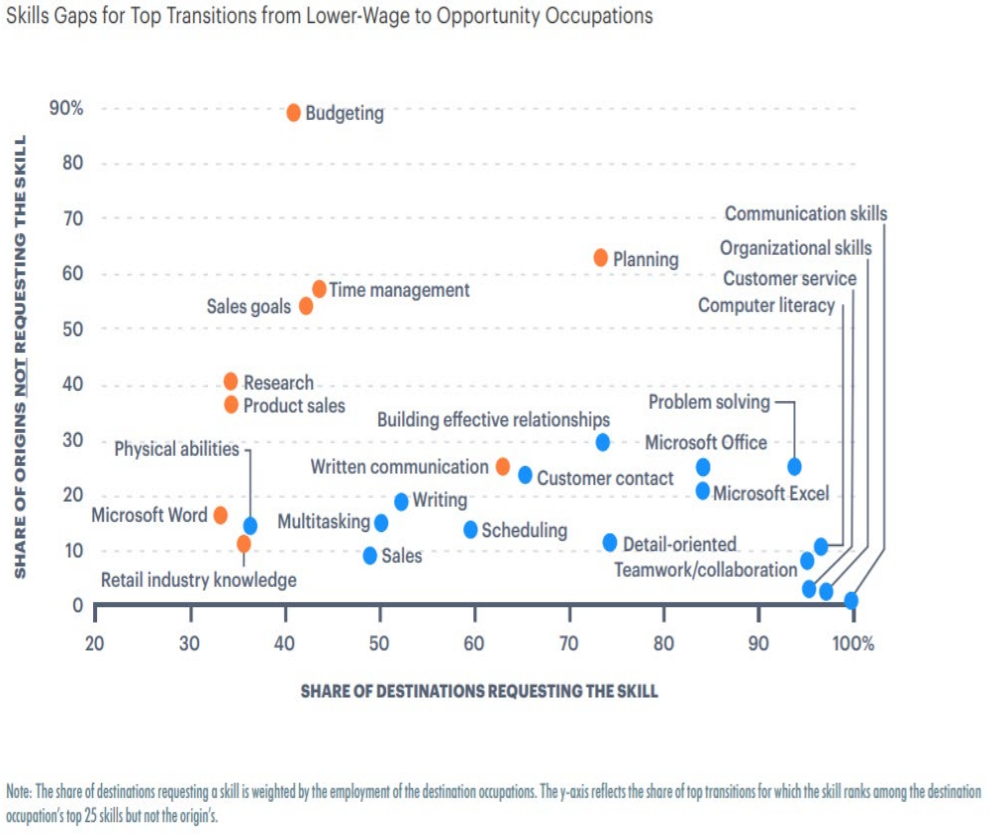
<u>Core Skills</u>: Definitional skills to each occupation which students will need in order to contribute

<u>Building Block Skills</u>: Although these are required and relevant across many roles, **they aren't always included in curriculum, putting graduates at a disadvantage**

<u>Distinguishing Skills</u>: These are emerging, fast-growth skills or core opportunities for specialization that **enable students to differentiate themselves – and often command significant salary premiums**

Not All Skills Are Created Equal

Build skills that empower students to keep moving from low- to high-value work…



Note: The share of destinations requesting a skill is weighted by the employment of the destination occupations. The y-axis reflects the share of top transitions for which the skill ranks among the destination occupation's top 25 skills but not the origin's.

Source: Federal Reserve Banks of Cleveland & Philadelphia

…and that dramatically increase the chances of advancement

Customer Service & Support Workers

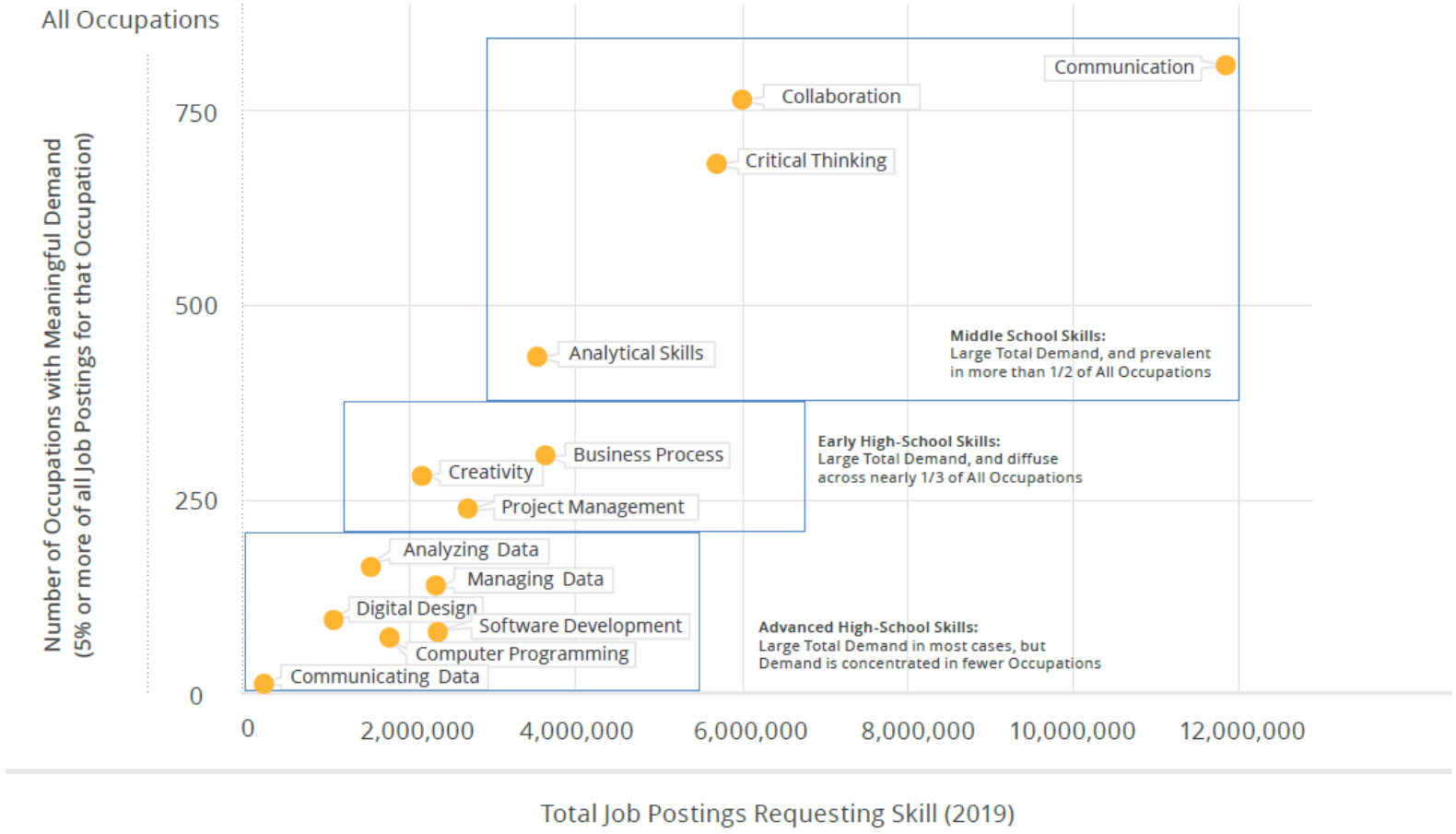
Skill/Certification(*)	% Increase in Mobility Rate
Project Management	390%
Certified A+ Technician*	430%
Budgeting	280%
Hardware Experience	250%
Social Media	240%
Adobe Photoshop	200%
Quality Assurance and Control	180%

Source: Burning Glass Institute analysis

Rethink Curricular Structures & Format:

A Model for When Skills Should be Taught

Integrating the new foundational skills starts in middle school but developing the most timely skills should wait till later in high school



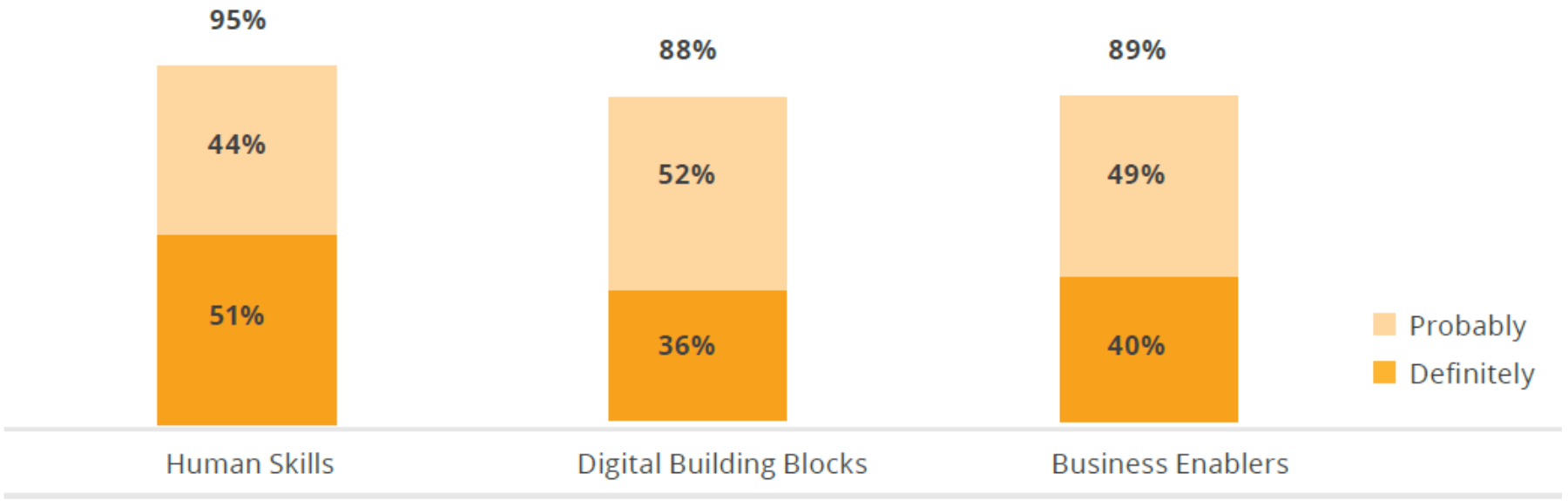
Source: Burning Glass Institute analysis

Rethink Curricular Structures & Format:

Experiential Learning is Key to Career Readiness

Teachers agree that work-based learning better prepares students

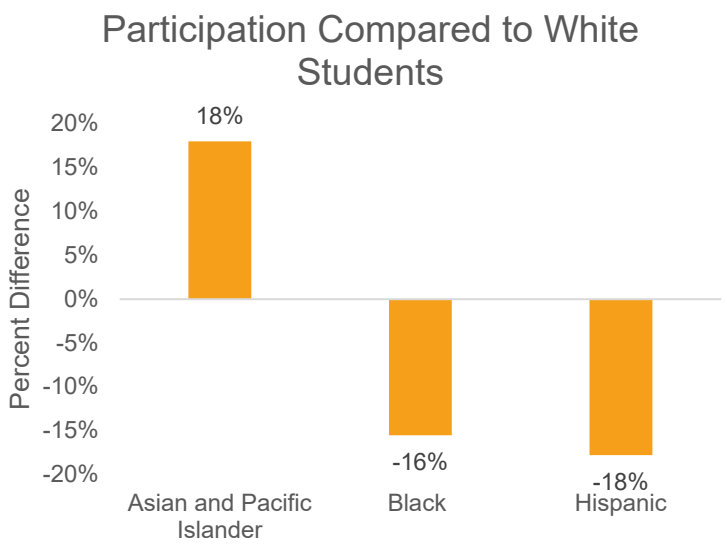
900 teacher survey: Do students who have experiential learning experiences have a better chance of acquiring these skills?

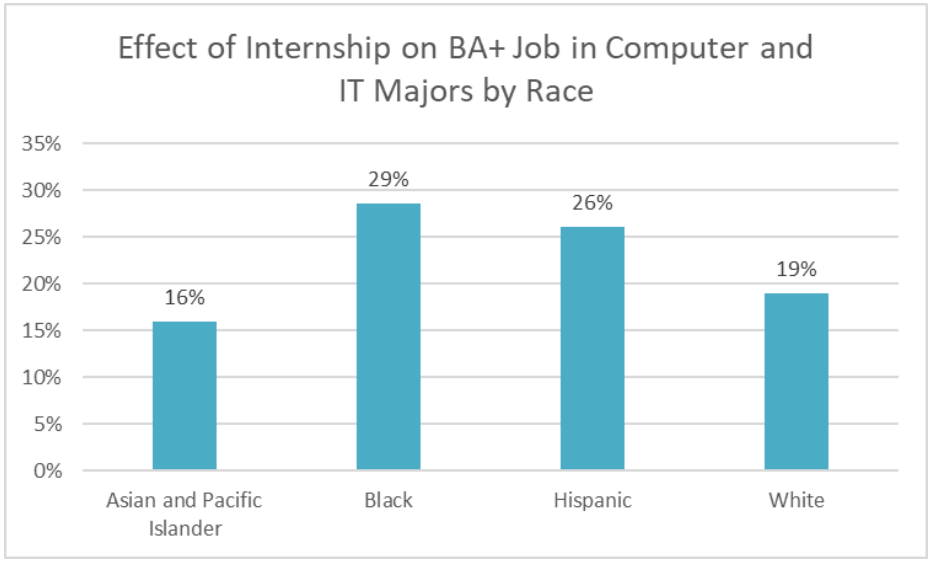


Source: Burning Glass & American Student Assistance

All Students Deserve Access to Internships

Students of color have less opportunity to pursue internships but, for those who do, the impact is huge. Integrating such experiences into the curriculum could change the game.





Source: Burning Glass

Hold Ourselves to Account for Outcomes.

Invest in Credentials with Proven Results

Helping students acquire certifications can give them a leg up in launching their careers – but only those of value. It's now possible to measure the efficacy of certifications across an array of dimensions.

Example: Measurement of Placement & Wages for OSHA30 Certification Across Providers

	Provider A	Provider B	Provider C	Provider D	Provider E
In a new job by one year	67%	68%	70%	40%	58%
Moved into an aligned occupation by one year	18%	18%	19%	12%	22%
Wages after one year	$63,000	$65,000	$61,000	$46,000	$40,000
Percent change in wages after one year	10%	9%	13%	3%	8%
Absolute wage changes after one year	$4,000	$3,100	$4,500	$2,300	$4,300
Percent of workers with wage increases after one year	44%	45%	46%	41%	44%
Percent change in wages after three years	13%	14%	16%	-6%	17%
Percent change in wages after five years	15%	13%	19%	0%	28%
Employment Outcomes Grade	**B**	**B**	**A-**	**F**	**C+**

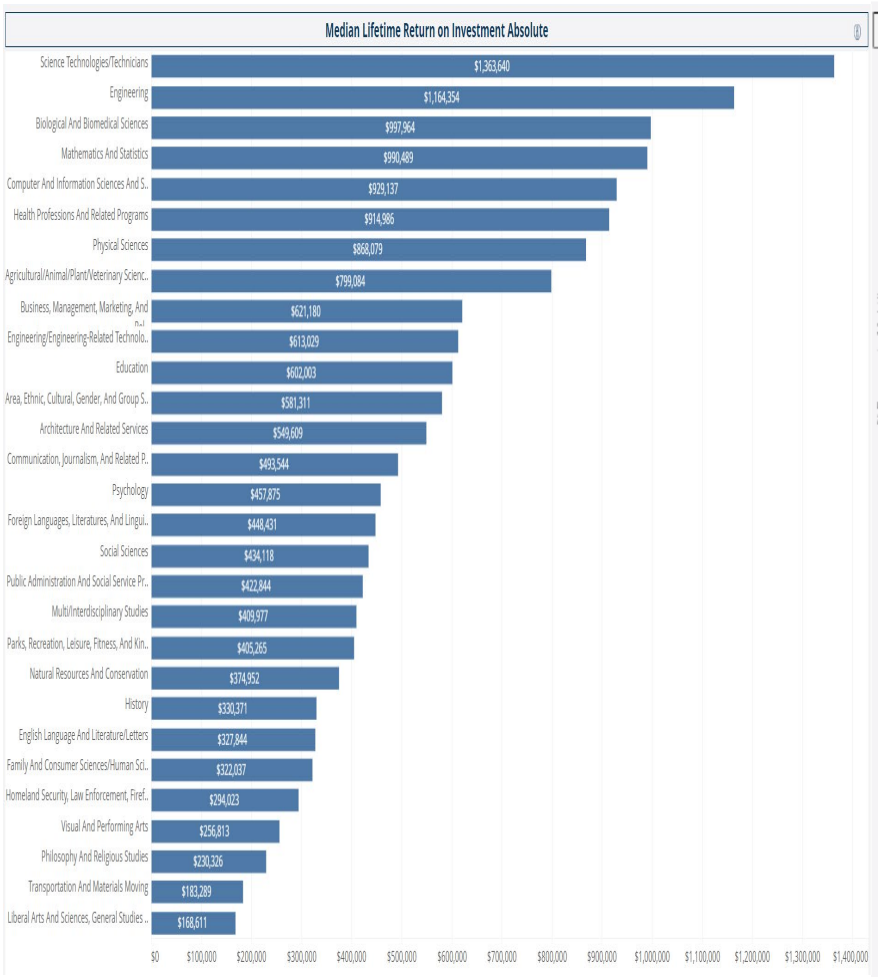
Source: Burning Glass Institute / EQOS

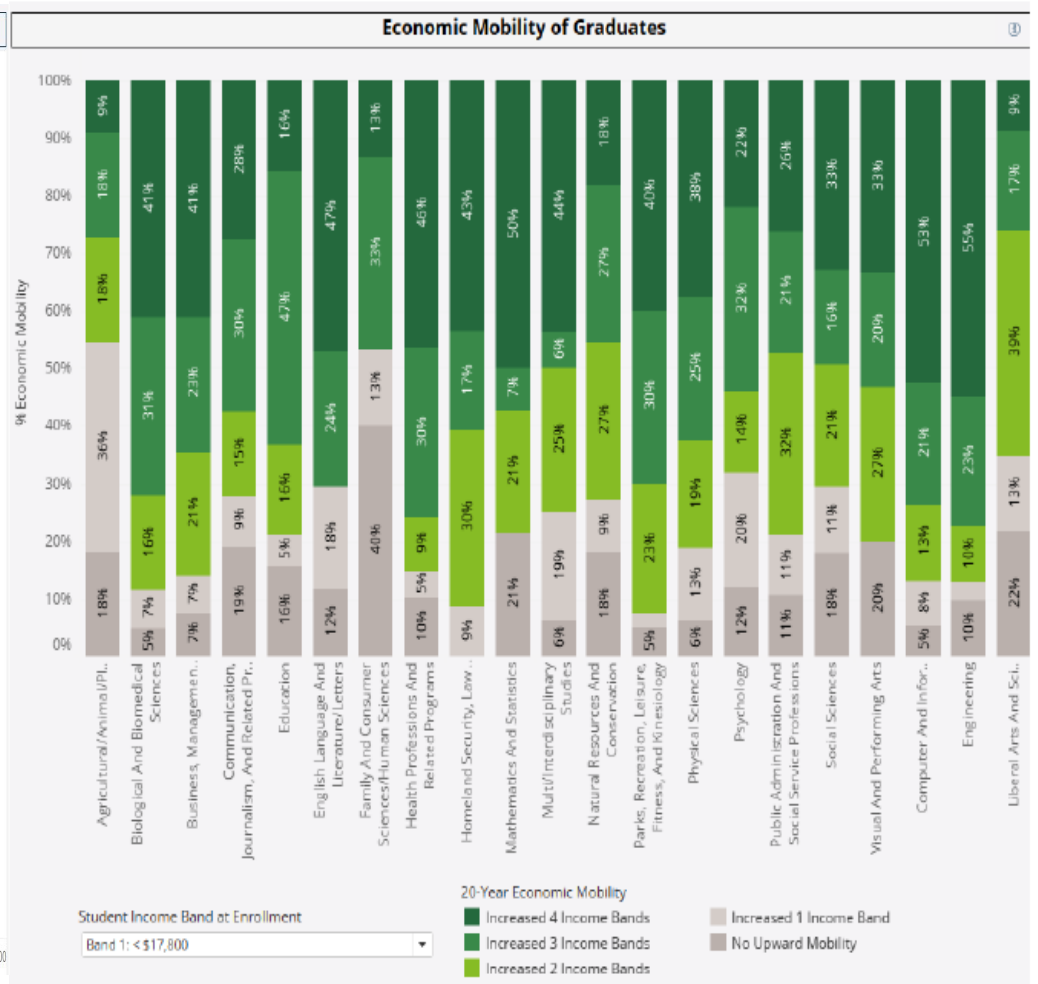
Make Post-Graduation Outcomes Our North Star

A state HE system studied ROI & mobility by major. The gaps are startling

ROI: Lifetime earnings in top programs were 10x those at the bottom

Mobility: Some majors are 6x more likely to deliver students from bottom to top income quintiles





There Must Be 50 Ways To Leave Retail

Help Learners Over Time, Not 'Once & Done'

Career Area	% of Workers in Career Area after 5 Years	% of Workers in Occupations with Low to Moderate Probability of Automation	How much safer or at risk than the nation?
Core Retail (e.g. Retail Sales)	33.5%	35%	0.95
Administrative	15.7%	13%	0.35
Customer Service	12.3%	8%	0.22
Food	6.2%	0%	NA
General Sales	5.9%	95%	2.57
Finance	5.5%	18%	0.49
Health Care	4.2%	40%	1.08
Hospitality	3.7%	19%	0.51
Restaurant Management	3.4%	14%	0.38
Retail Operations: Logistics	3.0%	20%	0.54
IT	2.4%	100%	2.70
Call Center	1.1%	4%	0.11
Retail Operations: Merchandising	1.1%	100%	2.70
Real Estate	0.9%	0%	NA
Retail Operations: Buyers	0.6%	0%	NA
Hospitality Management	0.3%	100%	2.70
Auto	0.2%	0%	NA
Total	100%	38%	1.02

Key Takeaways

- **Generative AI is going to impact not just *how* we teach, but also *what* we teach**; as some skills are displaced by automation, others will become increasingly important in a post-LLM world
- **End the false choice of college-or-career**, fully integrating CTE and academic tracks and ensuring that all students have the chance to learn career-relevant skills and credentials before they graduate
- **Double down on core foundational skills** that are the bedrock of American education but recognize a wider range of what's foundational for high-value work
- **Extend counseling to navigating career decisions** for the 87% of students who won't wind up in a college-level job
- **Introduce work-based learning opportunities** to help students acquire key skills, consider potential career paths, and connect them with post-graduation opportunity
- **Measure outcomes beyond completion** and hold ourselves to account for student career success

Industry Panel

Industry Panel

MODERATOR:
Amy Grady
WV State Senator

Ashok Aggarwal
Co-Founder and Managing Partner
M&S Consulting

Sean Frisbee
President
Vertx Partners

Becky Harless
Vice President, CAMC/Greenbrier
Valley Medical Center

Josh Spence
Chief Information Officer
Alpha Technologies

Break

AI-Proofing Our Students Through Partnerships: Frederick High School LYNX Model

Marlon Moran

Frederick High School, MD

AI-Proofing Our Students Through Partnerships

The FHS LYNX Model

As we have heard today…

meaningful partnerships

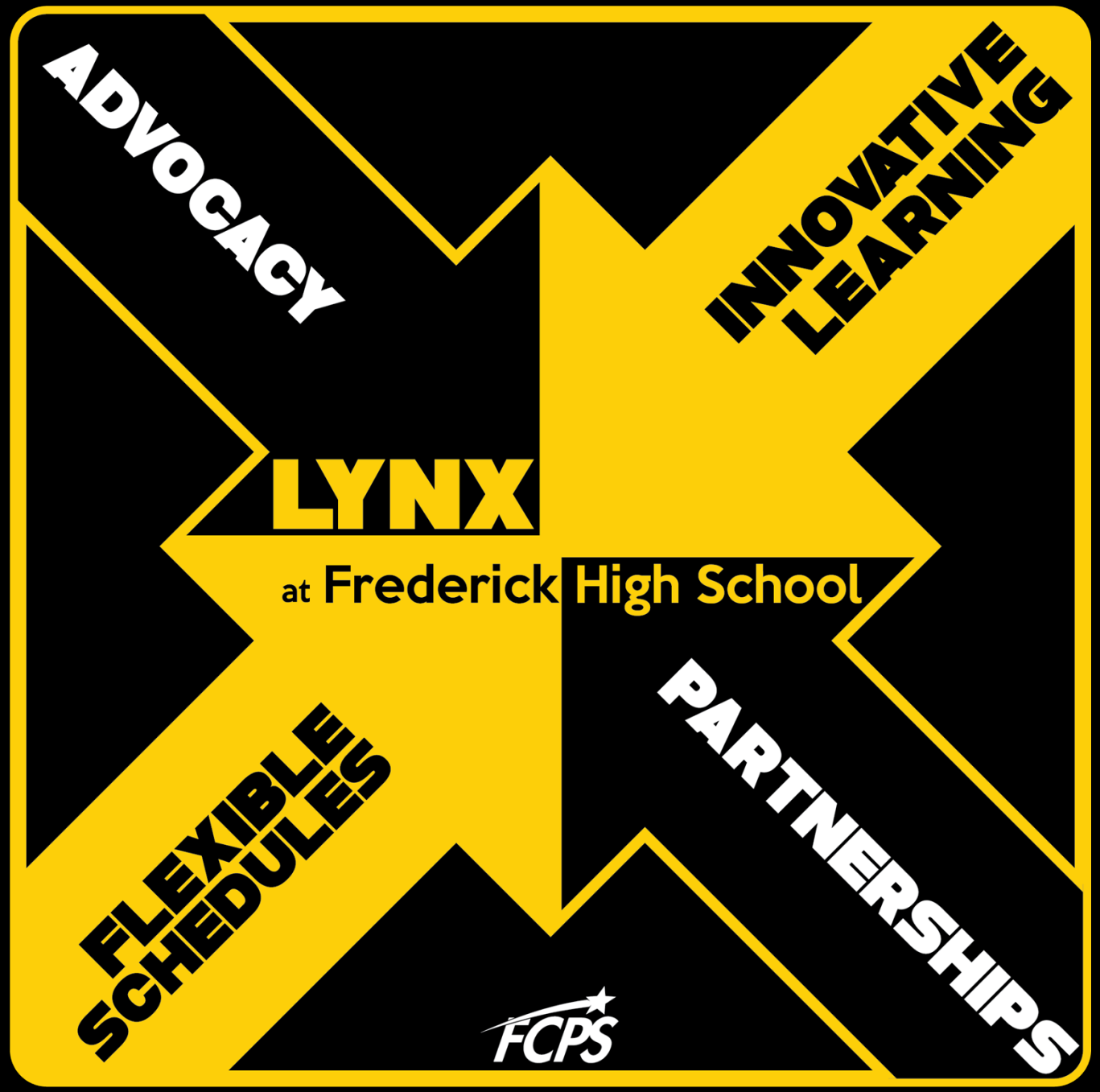
FHS LYNX …

A. partnerships

“AI-proof”

Frederick High School

LYNX: Linking Youth to New eXperiences


ADVOCACY
INNOVATIVE LEARNING
LYNX
at Frederick High School
FLEXIBLE SCHEDULES
PARTNERSHIPS
FCPS

Flexible Schedules

FHS Schedule on Tuesdays/Wednesdays: 2023-2024

Semester I	
Breakfast	7:00 - 7:30 AM
First Block	7:30 - 8:50 AM
Second Block	8:55 - 10:15 AM
Advocacy	10:20 - 10:55 AM **
Third Block	11:00 AM - 12:50 PM
Lunch	*1st lunch 10:55 - 11:25 AM (late bell 11:30)* *2nd lunch 11:35 AM - 12:05 PM (late bell 12:10)* *3rd lunch 12:20 - 12:50 PM*
Fourth Block	12:55 - 2:15 PM (buses depart daily at 2:25)
Fifth Block/Learning Lab	2:20 - 3:40 PM
Supper	3:45 - 4:15 PM (buses depart daily at 4:15 PM)
**AM CTC will return at 10:30 AM **PM CTC will leave for lunch at 10:45 AM	

Innovative Learning

Competency-Based Education (CBE)

"Pathways"

- ★ Structured "Face to Face" classes focus on CBE
- ★ Dual Enrollment Early College or Career Pathways (in partnership with Frederick Community College)
- ★ Credit by Demonstrated Mastery (CDM)
- ★ LYNX Online Courses - aligned with CBE standards
- ★ Experiential Learning (with LYNX partners)

Advocacy

Partnerships

LYNX Advocates

Mr. Moran

Mrs. Sands

Ms. McCarrick

Mrs. Tongyai

Mrs. Melcher

Work-based Learning Coordinator

Network of Advocates

8th grade	Year 1 (9th grade)	Year 2 (10th grade)	Year 3 (11th grade)	Year 4 (12th grade)
LYNX Advocates 4 School-based Teachers				
	LYNX Partners Educators and business, community, and college partners			
	Advocacy 1 Teachers Team of 20 School-based Teachers (daily support for 15-20 students within a 35 minute time block)	**Advocacy 2 Teachers** Team of 20 School-based Teachers (daily support for 15-20 students within a 35 minute time block)	**Advocacy 3 Teachers** Team of 40 School-based Teachers (daily support for 15-20 students within a 35 minute time block)	
	School Counselors			

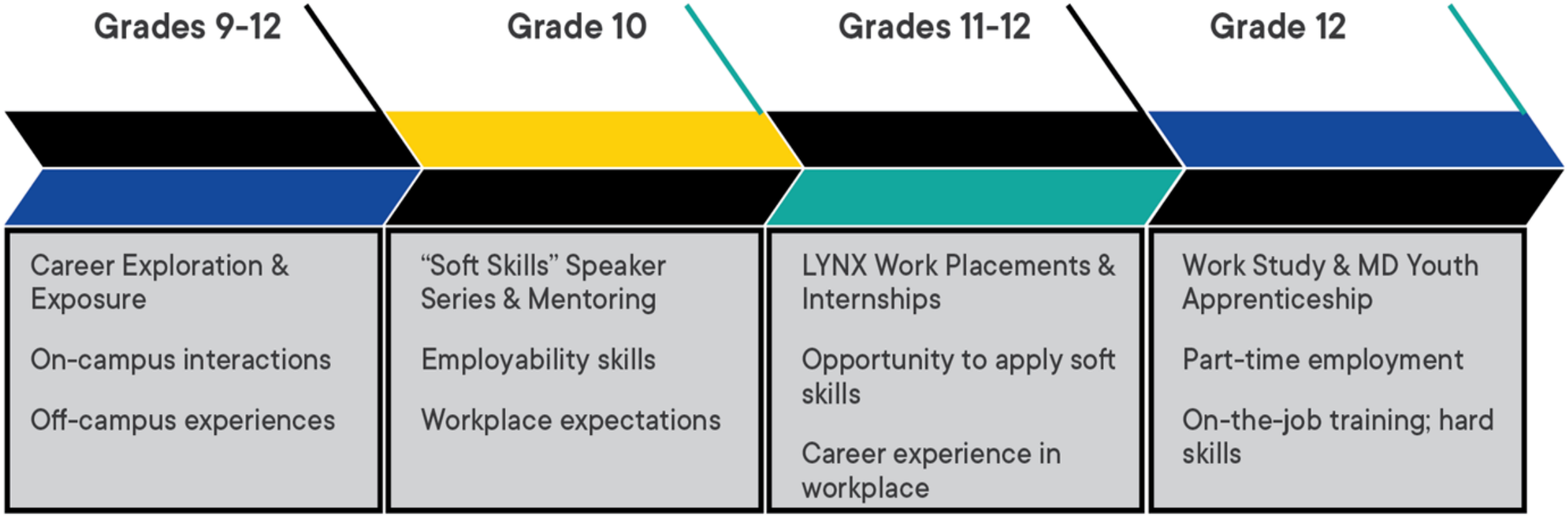
Frederick High School LYNX

FCPS

Purpose for Partnerships

Leadership Frederick County - LYNX

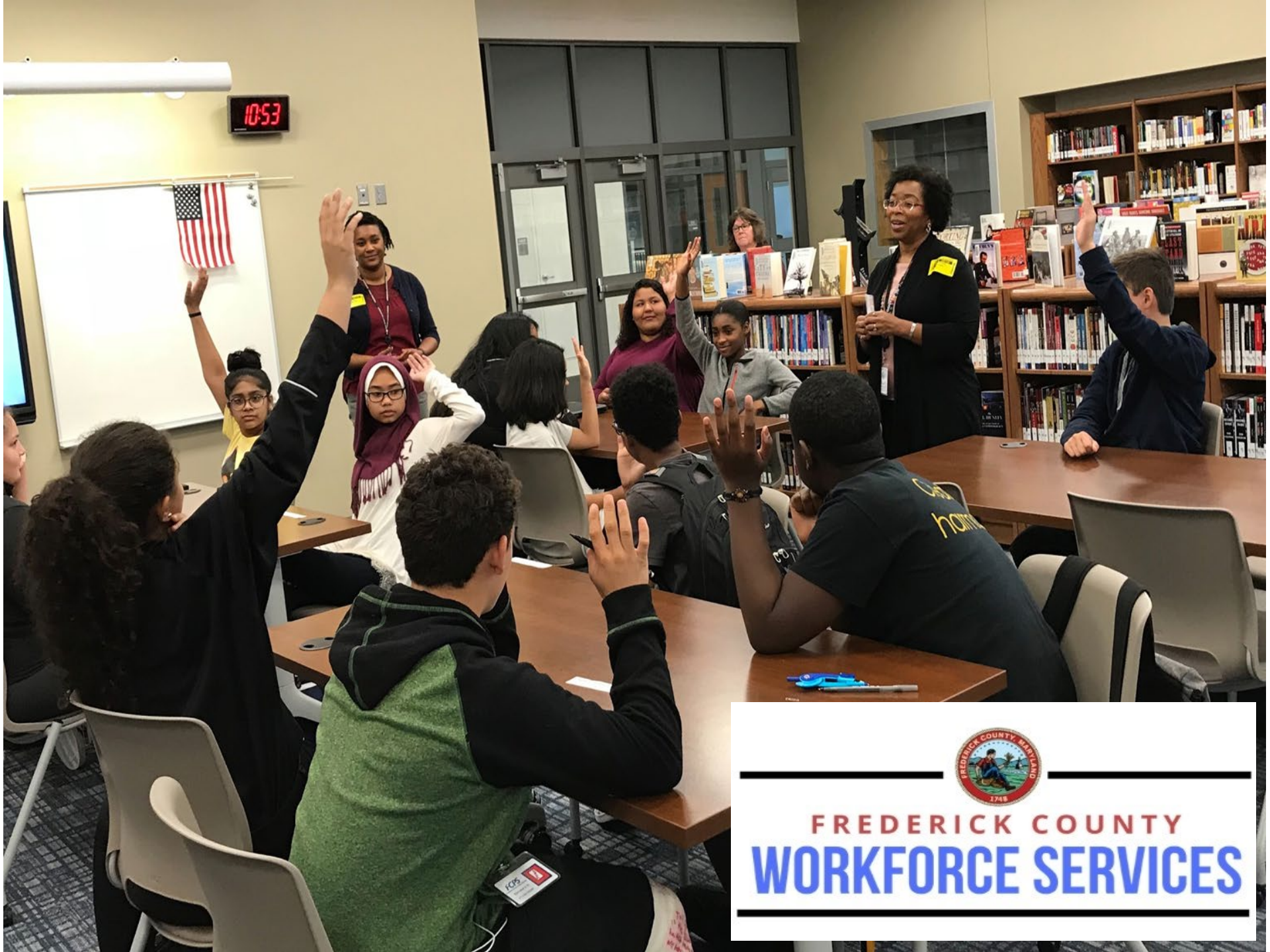
Experiential Learning with LYNX Partners



Key City Rotary Club - Networking with Professionals

First Chime

Chef Privé


10:53
FREDERICK COUNTY
WORKFORCE SERVICES

AstraZeneca

LYNX
MADDEN

Learning Commons

C. BURR ARTZ
PUBLIC LIBRARY

YMCA CAMP WEST MAR

THE DELAPLAINE arts CENTER

Everyone Deserves Art

YAKABOD

LVFD
LAS VEGAS CITY

Welcome & Introductions – 11:00
Tour the facilities – 11:05 (John Thorhauer VP of Engineering)
Meet Members of our Team 11: 10 (Intro to Yakabod, Who w
and What we do – Jonathan Pernell)
Take a look at our Technology 11:20– Dan Coffey (w/Lunch)
11:45 Rotations: Product Management – Dan Coffey / Qualit
Assurance & Testing - Tim Andrews / Accounting, Contracts, &
Operations – Amber White
Q& A Wrap up ~ 12:25 in Conference Room

FCC
Monroe Center
Frederick
Community College
Frederick County Workforce
Services
200 MONROE AVENUE

Hill-Rom

NATIONAL CANCER INSTITUTE

NCI at Frederick

Friends of Waterford Park

lilypons WATER GARDENS

September 2023

(Click on Event for Sign-up Sheet)

Red = On-campus
Blue = Off-campus
Purple= In-class Experience

Green = Block 5 (2:20-3:40 pm)
Orange = College/University Visit

Monday	Tuesday	Wednesday	Thursday	Friday
4 **Labor Day** **School Closed**	5	6	7 Your Financial Future w/ First United Bank- Part 1 (MM/AM)	8 CPR Child and Infant Part 1 (MM/TG)-**FULL**
11	12 Networking with Professionals- Key City Rotary (MM)	13 Careers as a Pilot (AM)(TG) **FULL**	14 Careers in Design and Architecture (BS) (TG). FCC ACCE 101 Sign Up Closes Tomorrow! "College Success Tools" (1 credit)	15 CPR Child and Infant Part 2 (MM/TG)-**FULL**
18 Hero Dogs- Careers with Service Dogs (MM) Chef Park In-Flight Catering Baier Blk 3 Culinary Class	19 Careers in Sports Medicine and Physical Therapy (AM) Careers in Teaching and Trip to Shepherd University (MM)(TG)	20 Careers in Barbering and Cosmetology: The Temple:A Paul Mitchell School (BS)(TG) Careers in Construction and Contracting (AM)(MM)	21	22 **Fair Day** **Mid-Term** **Early Dismissal**
25 **Yom Kippur** **Schools Closed**	26 iXplore Entrepreneurship: Starting a Business	27 US Army Careers (AM)	28 Your Financial Future w/ First United Bank- Part 2 (MM) Careers in Child Development Environmental Science Education - Part II (BS)/(TG)	29 Waterford Park Environmental Walk (TG)(MM)

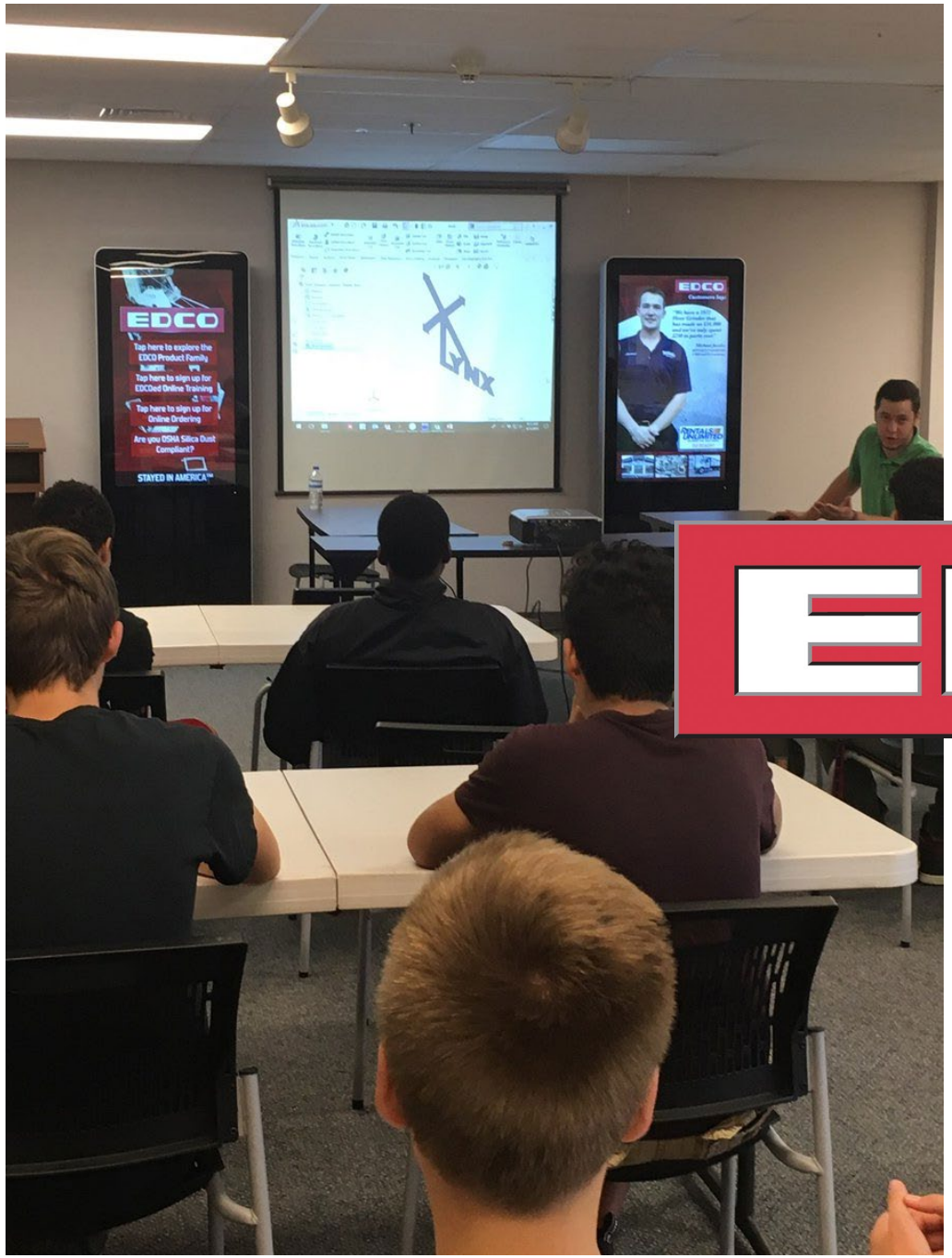
October 2023

(Click on Event for Sign-up Sheet)

Red = On-campus
Blue= Off-campus
Purple= In-class Experience

Green = Block 5 (2:20-3:40 pm)
Orange = College/University Visit

Monday	Tuesday	Wednesday	Thursday	Friday
2 Careers in Marketing (BS/AM)	3 Electrician and Electrical Apprenticeship (MM/AM) ACCE 101	4 Dual Enrollment Program Exploration (TG/BS) Frederick Police Training Grounds (AM/MM)	5 Careers in Auto Mechanics and Auto Body (BS/AM) ACCE 101	6 United Way Day of Action (BS/JM) Shepherd University (MM/TG)
9 Thermofisher (MM/AM) Careers in Zoology and Animal Care (BS/TG)	10 **Chef Bobby (AM/TG)** **Baier Blk 2 Culinary Arts** ACCE 101	11 **Digital PSAT at FHS**	12 Careers in Journalism (BS/TG) ACCE 101	13 CPR Adult (MM/TG)-FULL Teambuilding, Outdoor Adventure, and Working for the YMCA(BS)
16 Careers in BioTechnology (BS/TG) CTC and AFA Presentation (MM/AM)	17 Secret Service Training Center Tour (MM/AM)- FULL College and Professional Sports: Virtual Session with L.A. Rams Player Rob Havenstein (BS) ACCE 101	18 Careers in the Music Industry (BS/MM)	19 Careers in Personal Training and Physical Fitness (BS/MM) Careers with the Frederick City Police (AM/TG) ACCE 101	20 **Teacher Work Day** **No School**
23 Bilingual Health Information Specialist (MM/AM) CTC Presentation in Spanish	24 Careers in International Relations and Leadership (AM/TG) ACCE 101	25	26 End of Term 1	27 **Teacher Work Day** **No School**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Student Voices

“I learned that it can take many years to create a successful business, and that the key to being successful is creating a unique idea.”

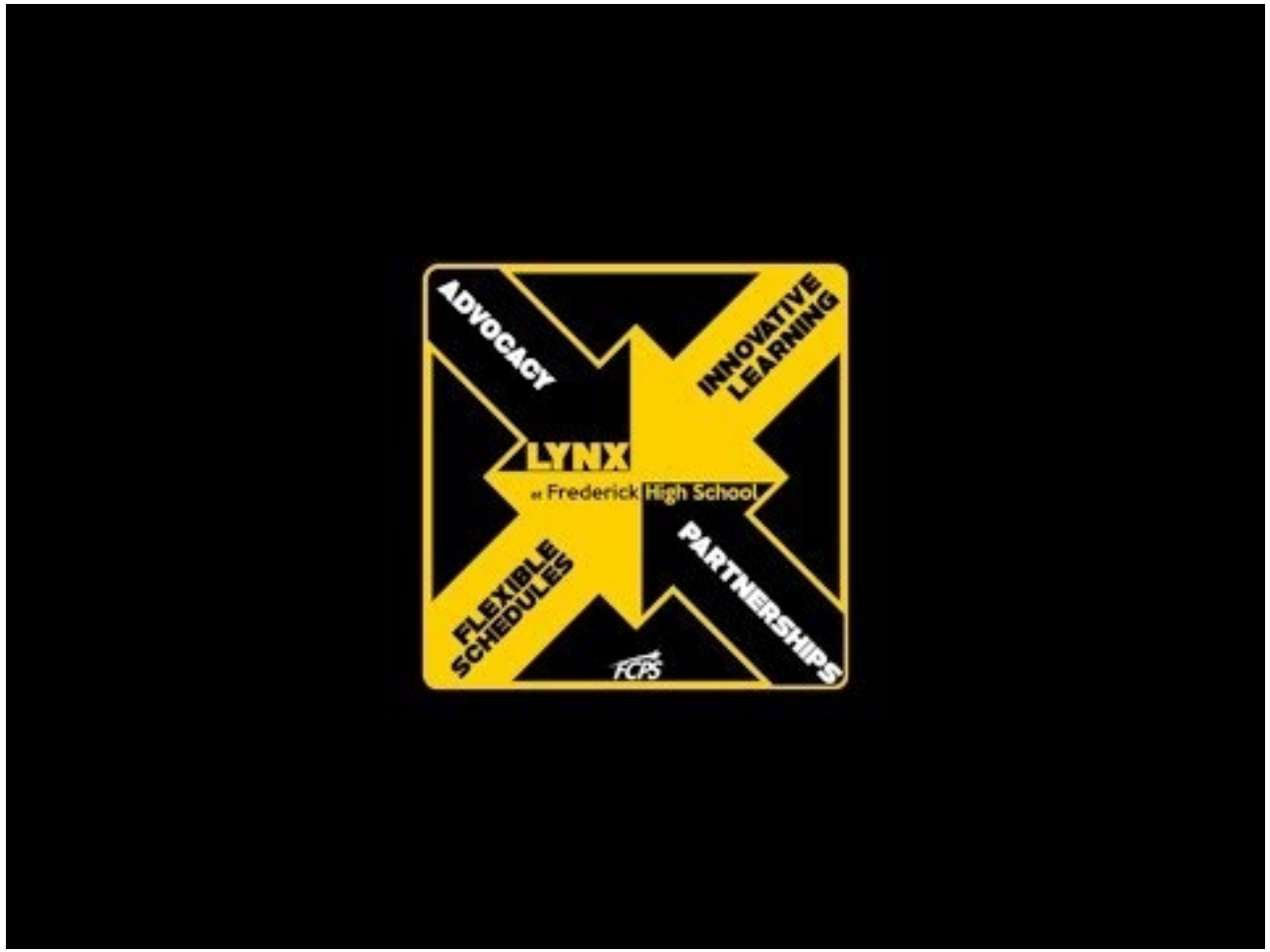
“Communication with others is key, and patience is key, whether it be help desk / customer support, or managing a project. Also...when resolving conflicts.”

“I never really thought that data visualization can tell stories and I really loved how fascinating it is to make and read data to find trends.”

Reiteration, reiteration, reiteration. You don't get your optimal design the first time. See the various models of the cement grinder be displayed, as well as the group project wi tennis ball, really engrained the importance of reiteration into my mind. Coordination is key. Seeing the various employees involved with different parts of the manufacturing process work in unison, demonstrated how impressive feats can be done with just a few people (and a lot of expensive machinery).

Video: Partnerships

L Y N X

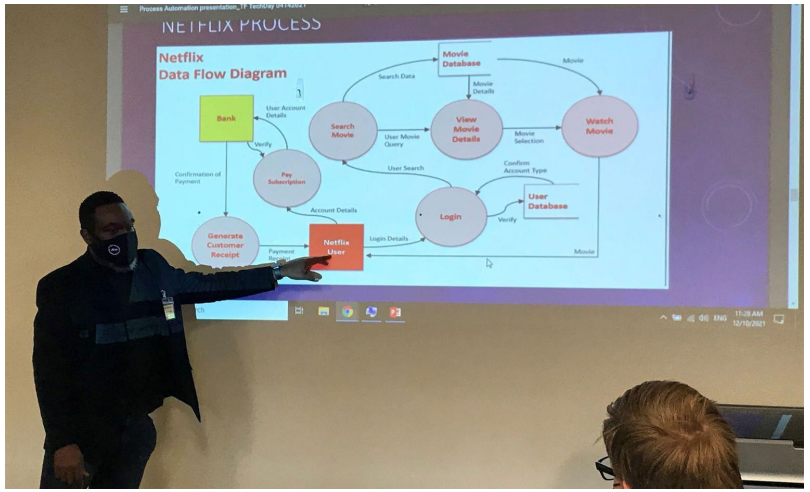


LYNX Partner "Soft Skills" Sessions
Grade 10 (ages 15-16)

- The Importance of First Impressions
- Get Involved: Giving Back to the Community
- How to Build Your Network of Contacts
- Me, Myself and I - Know Yourself!
- Other Duties As Assigned
- Preparing for a Job Fair

PREPARE
COLT WALL
7. COME PREPARED
• Bring a copy of your resume
• Bring a notepad and pen

techfrederick



“Soft Skills” session takeaways - 10th graders:

“The most important piece of advice I received from my LYNX partner was to research a company before setting foot into an interview office.”

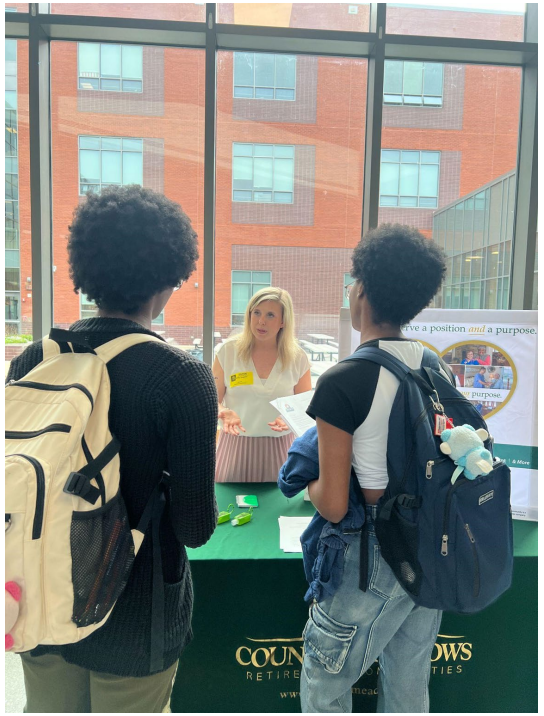
“I’ve learned to always take initiative for things like volunteering so you can better yourself and create more paths for your future.”

“I’ve learned how to make a business card and what information to put on it so that people can learn about me and my skills.”

“I’ve learned about how much first impressions matter and how being connected with the community around you can really help you land jobs.”

“Mock Interviews”
March 2023

Job Fair
April 2023



Partners: What is the most valuable/meaningful aspect of your experiences with FHS students through LYNX?

"Being able to give students a different perspective…to help them make good choices and allow them to know how they can use different tools to be successful."

"Showing students lucrative career paths that don't require a college education."

"Speaking with students one-on-one, answering specific questions and helping them collect more information about the theatre community in Frederick."

"Seeing such a diverse group of students attend was meaningful to our mission. The overall atmosphere of seeing the students discover things they didn't previously know was so rewarding!"

"It means a lot to be able to spend time with young students to let them know we (business owners and professionals) value them...and we do that by coming to spend time with them to help them grow into adults."

Video: Student Voice

L Y N X

For more information:

Website: www.fcps.org/lynx

e-mail: LYNXFHS@fcps.org

@LYNXFHS

@LYNXFHS

@LYNXFHS

Student Expo

Adventure Pocahontas
Pocahontas County

Grow Your Own
McDowell County

MedEd
Monongalia County

Robotics
Putnam & Monongalia Counties

WV Ready Toyota Internships
Kanawha, Mason, & Putnam Counties

STEAM TAC
WV Public Education Collaborative

Lunch

Partnerships for the Future

Lynne Bostic
Superintendent, Pocahontas County Schools

Tracey Valach
Founder, Nature's Mountain Classroom, Adventure Pocahontas

Eddie Campbell, Ed.D.
Superintendent, Monongalia County Schools

Nature's Mountain

NATURE'S MOUNTAIN CLASSROOM

Fostering a love of West Virginia through outdoor recreation and experiential learning opportunities while improving the mental and physical health of our mountain community.

Pocahontas
Playground Adventures

- PreK- 1st Grade Students
- 3 total for each school
  - Fall & Winter at each school and 1 trip to Snowshoe!
- Literature Based
  - Science, Math, Art, Nutrition
- Supported by Leadership Pocahontas

2nd Grade Ski Adventure

Skiing at Snowshoe Mountain

- Share Winter Foundation
- Gear and clothing provided
- Partnered with WV Challenged Athletes for students with special

Educational Components

- Maple Science
- Snow Science
- Literature – Parts of a story
- Animal Adaptations

3rd Grade Hiking Adventures

Hiking around Pocahontas County

- Cranberry Nature Center
- 4-H Camp Thornwood
- Yew Mountain Center
- Snowshoe Shavers Lake Trail

Educational Components

- Snakes, Bees & more!
- 4H Spring Wildflower Book
- Hike-Ku Poems
- Animal Habitats/ Ecosystems
- Nutrition

4th Grade Kayaking Adventures

Water Sports & Fishing:

- Snowshoe Shaver Lake
- Watoga State Park
- Cass State Park
- Greenbrier River, Marlinton to Buckeye

Educational Components

- Watershed study
- WV History: Know Your State 4H Book
- Fresh water snorkel: Micro/Macro Invertebrates
- Literacy & Journaling

5th Grade Bike Adventures

ADVENTURE POCAHONTAS
NATURE'S MOUNTAIN CLASSROOM

Mountain Biking

- Marlinton: Rail Trail & Stillwell Park
- Droop Mountain Battle Field
- Greenbank Observatory Trails
- Snowshoe Bike Park

Educational Components

- Planets and solar system
- Simple Machines
- Nutrition
- Healthy Relationships & Advocacy

LEADERSHIP Pocahontas

- Playground Adventures:
  Create & Implement programming
- Adventure Pocahontas
  Work with local agencies and presenters to bring 2nd-5th grade programming
- Gain leadership skills and build community relationships

Adventure Pocahontas Days

4th Grade Adventure Pocahontas Watoga State Park - 8/24/23				
	Salamander	Brook Trout	Crawdad	Flying Squirrels
9:15-9:30	**Arrival**			
9:30	**Intro & Expectations**			
9:45	**Kayaking 101**	**Know Your State**	**Project WET**	**Creekin'**
10:35	**Know Your State**	**Kayaking 101**	**Creekin'**	**Project WET**
11:20	**Lunch**	**Lunch**	**Lunch**	**Lunch**
12:10	**Project WET**	**Creekin'**	**Kayaking 101**	**Know Your State**
1:00	**Creekin'**	**Project WET**	**Know Your State**	**Kayaking 101**
2:00	**Wrap Up**			
2:15	**Depart**			

	Intro	NMC	Ms. Tracey	CCC Statue
	Kayaking 101	Parks & Rec	Ms. Lauren & CJ	Boat Ramp
	Know Your State	WVU Extension	Ms. Luci	CCC Statue
	Project WET	USFS	Ms. Meadow	On the Damn
	Creekin'	USFS	Ms. Amy	On the Damn

So Many people to thank!

- Pocahontas County Board of Education
- Snowshoe Mountain Resort
- WVU Extension 4-H
- The Green Bank Observation
- Pocahontas Memorial Hospital
- Pocahontas County Free Library
- US Forest Service
- Pocahontas County Parks & Rec
- Watoga State Park
- Camp Hidden Meadows
- Pocahontas County CVB
- NICA
- Knapps Creek Trout Lodge
- Elk River Touring
- Family Resource Network
- Greenbrier Bikes
- Cass State Park
- Prevention Coalition
- Davis Trust Company
- WV DEP
- Snowshoe Volunteer Program
- Appalachian Sport
- National Turkey Federation
- WV DNR
- Jack Horner's Corner
- Science Adventure School
- Yew Mountain Center
- High Rocks
- Food & Farm Coalition
- WVU Family Nutrition Program

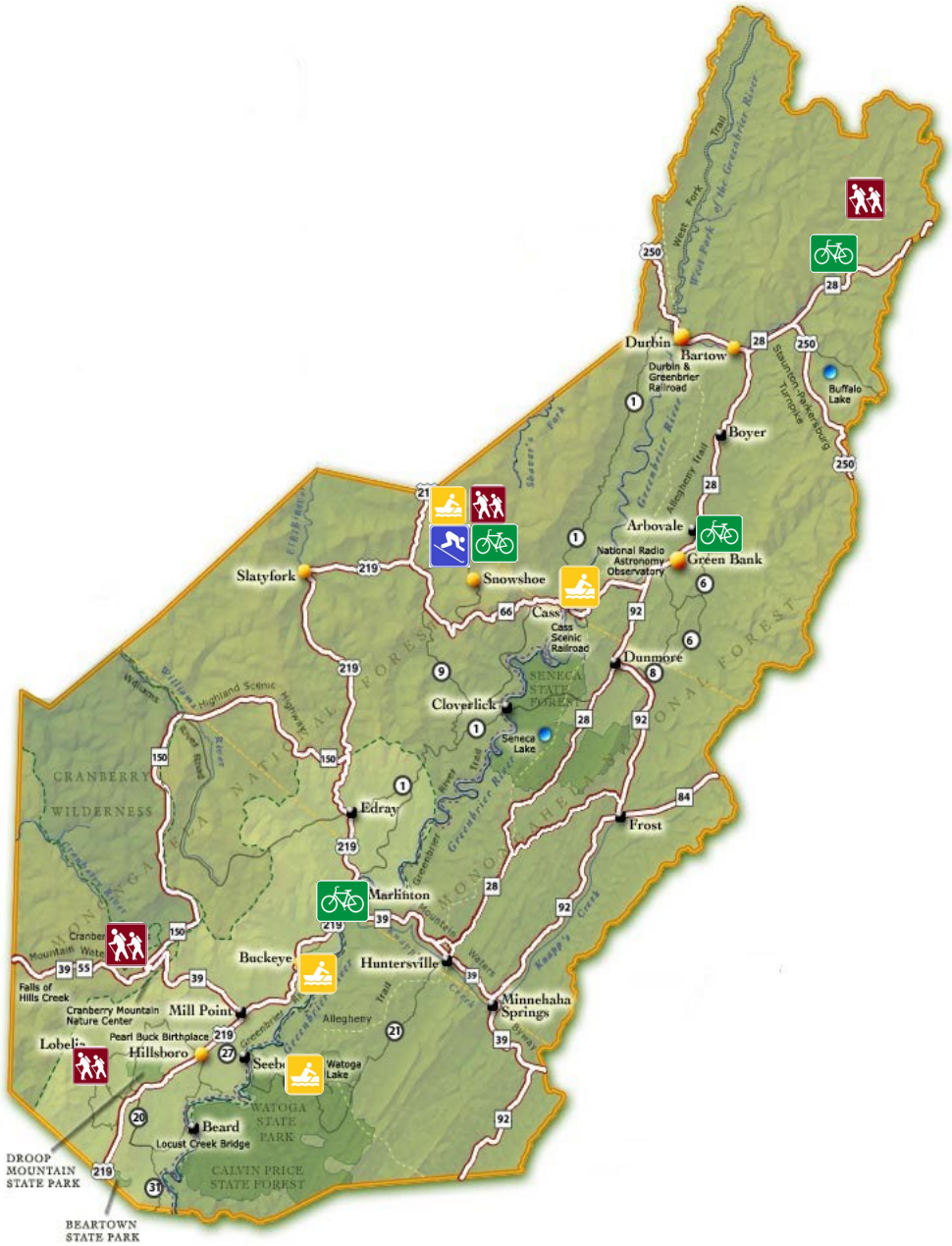
Benefits to the County

Pocahontas County

- Increased usage of trails and county resources
- Increased quality of life for residence
- More appreciation and respect for our land
- Resident retention

Area Businesses

- Future employee base
- More local outdoor enthusiasts



Bringing Natures Mountain Classroom to life!

Tracey Valach

naturesmountainclassroom@gmail.com

304-203-3738

NATURE'S MOUNTAIN CLASSROOM

Partnership Technical Workshop

MedEd Success Video

1 Minute Move to Breakout Session

20 Minute Breakout Session

Thank You Again Sponsors!

Bowles Rice

EQT

FirstEnergy Foundation

JACKSONKELLY PLLC

ServiceWire Co.
Manufacturing quality. Delivering service.

TOYOTA | WV

ZMM ARCHITECTS ENGINEERS

alpha TECHNOLOGIES

Arclin®

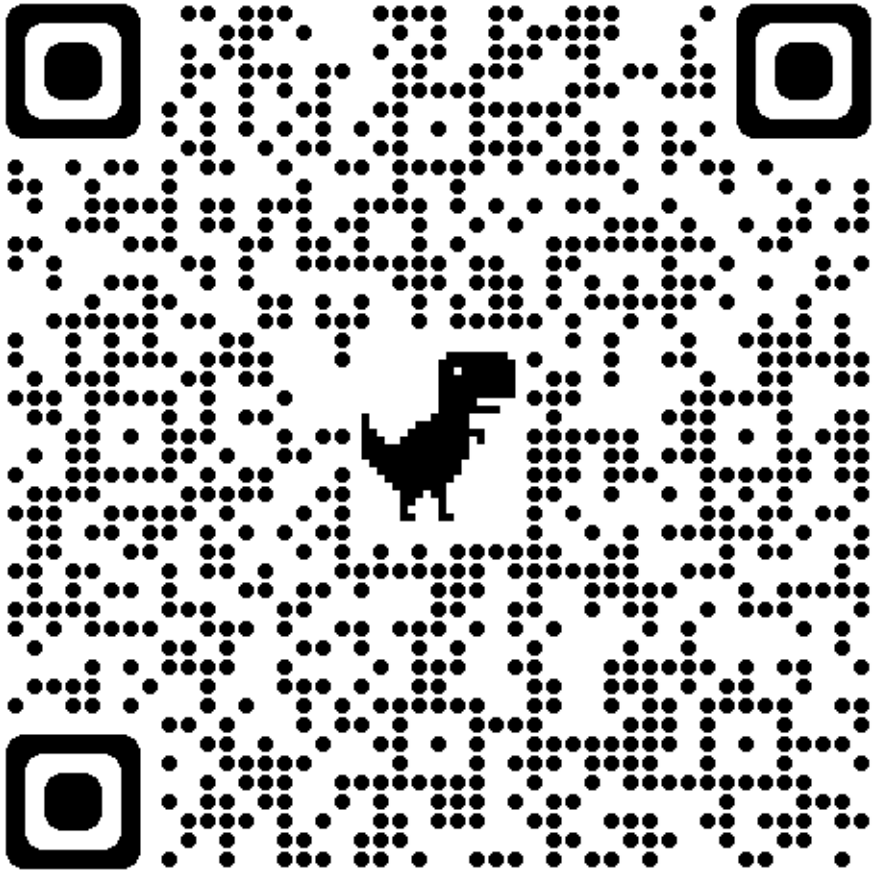
Charleston Area Medical Center
Vandalia Health

Marshall Health

WEST VIRGINIA DEVELOPMENT OFFICE

UNITED BANK

We want to hear from you!



EducationAlliance.org/Caperton

ABOUT US EQUIPPING STUDENTS MOBILIZING BUSINESS ADVANCING SYSTEMS

Revitalization

The Caperton Center will initially focus on completing a gap analysis of all schools' existing business partnerships and crafting a plan to revitalize and sustain their impact on students and communities statewide.

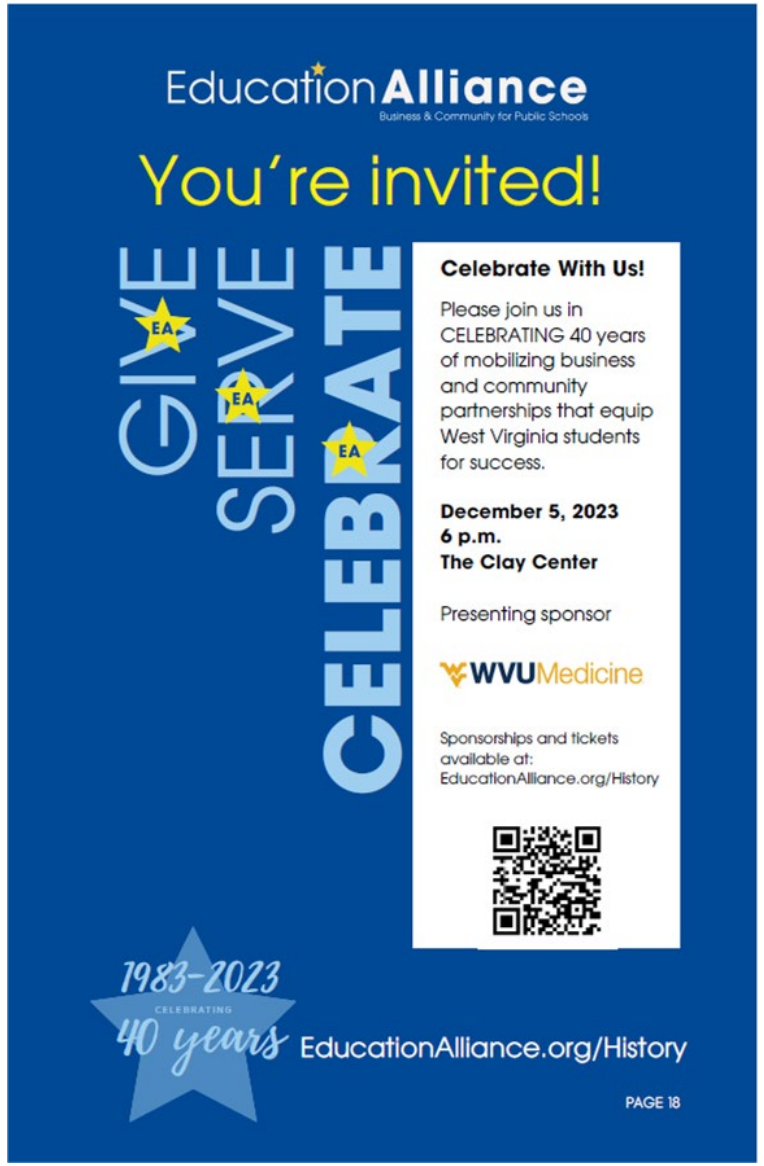
Equity & Access

With a focus on helping traditionally underserved students, the Caperton Center will help foster new business partnerships specifically aimed at strengthening student equity and access to quality education through a broad array of programs,

Innovation

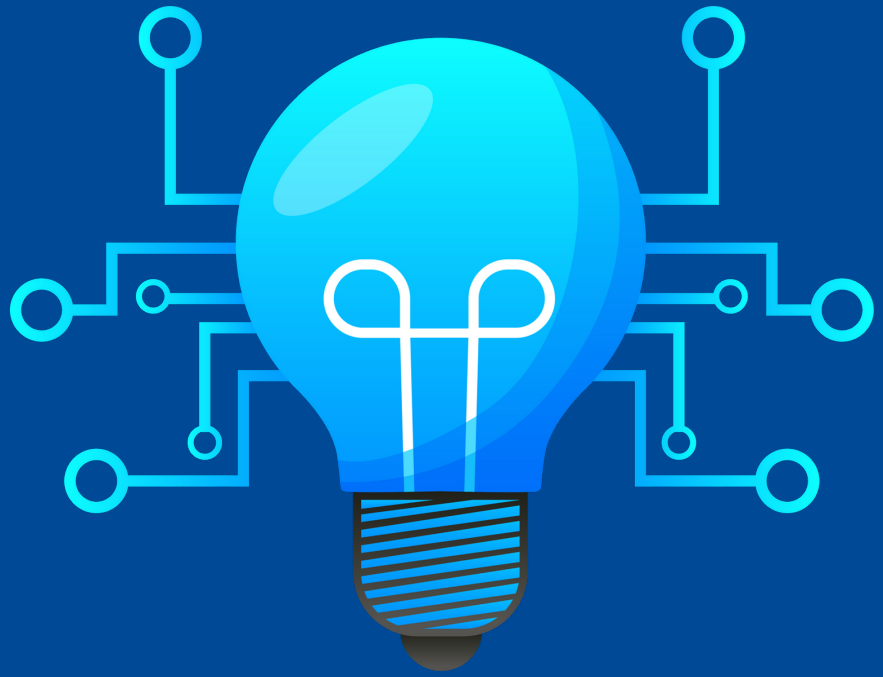
The Caperton Center will have the flexibility to respond quickly to new challenges and direct resources to emerging priorities - more important now than ever before.

Celebrating 40 Years of School & Business Partnerships



2023 WV EDUCATION SUMMIT

Thank You!



Education Alliance
Business & Community for Public Schools