



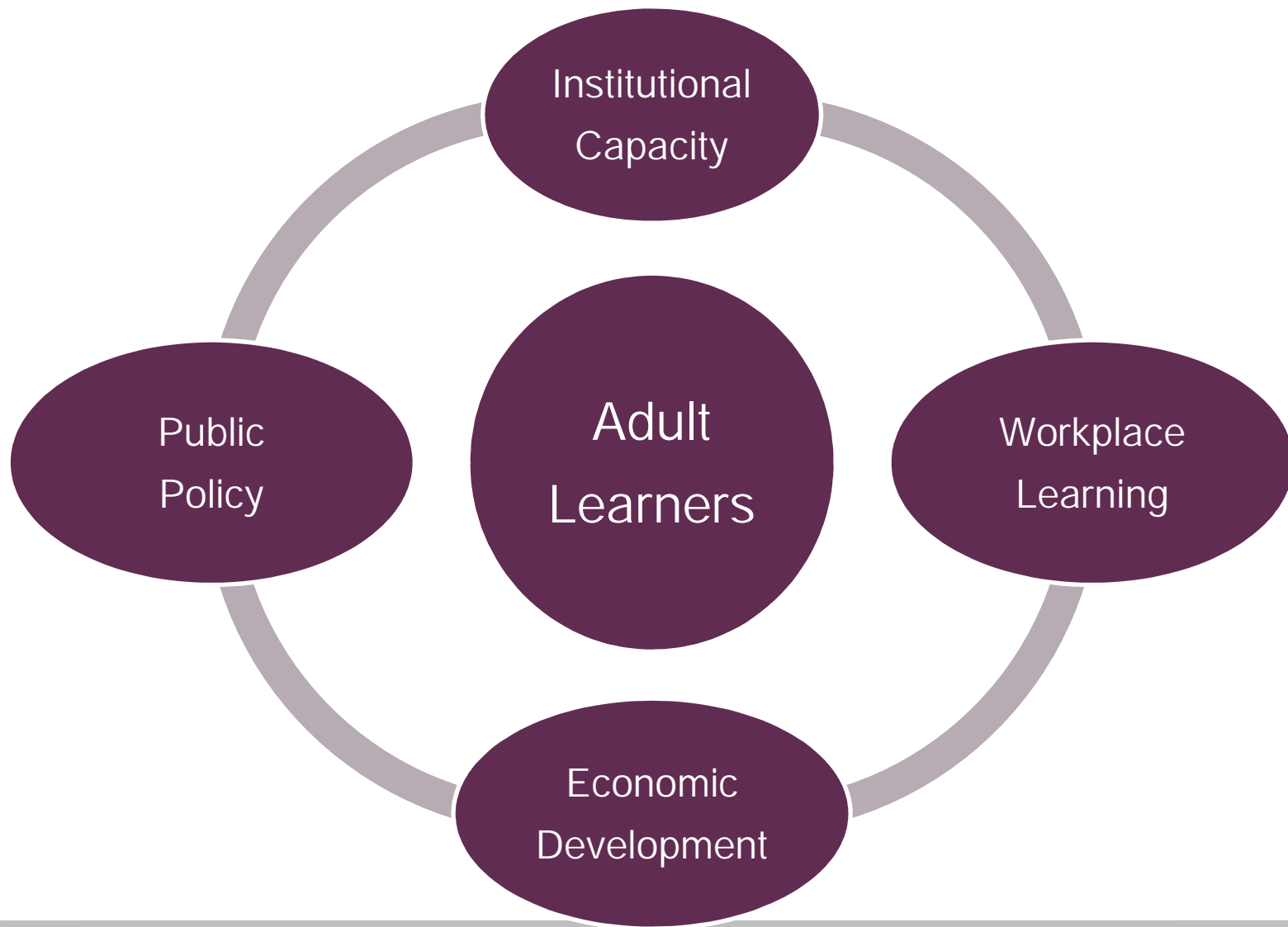
Workforce Development Tools for Changing Communities



Joel Simon, VP
The Council for
Adult and Experiential Learning (CAEL)



CAEL Vision: Meaningful Learning, Credentials and Work for all adults





CAEL's Workforce & Economic Development



Aligning workforce and education with economic development

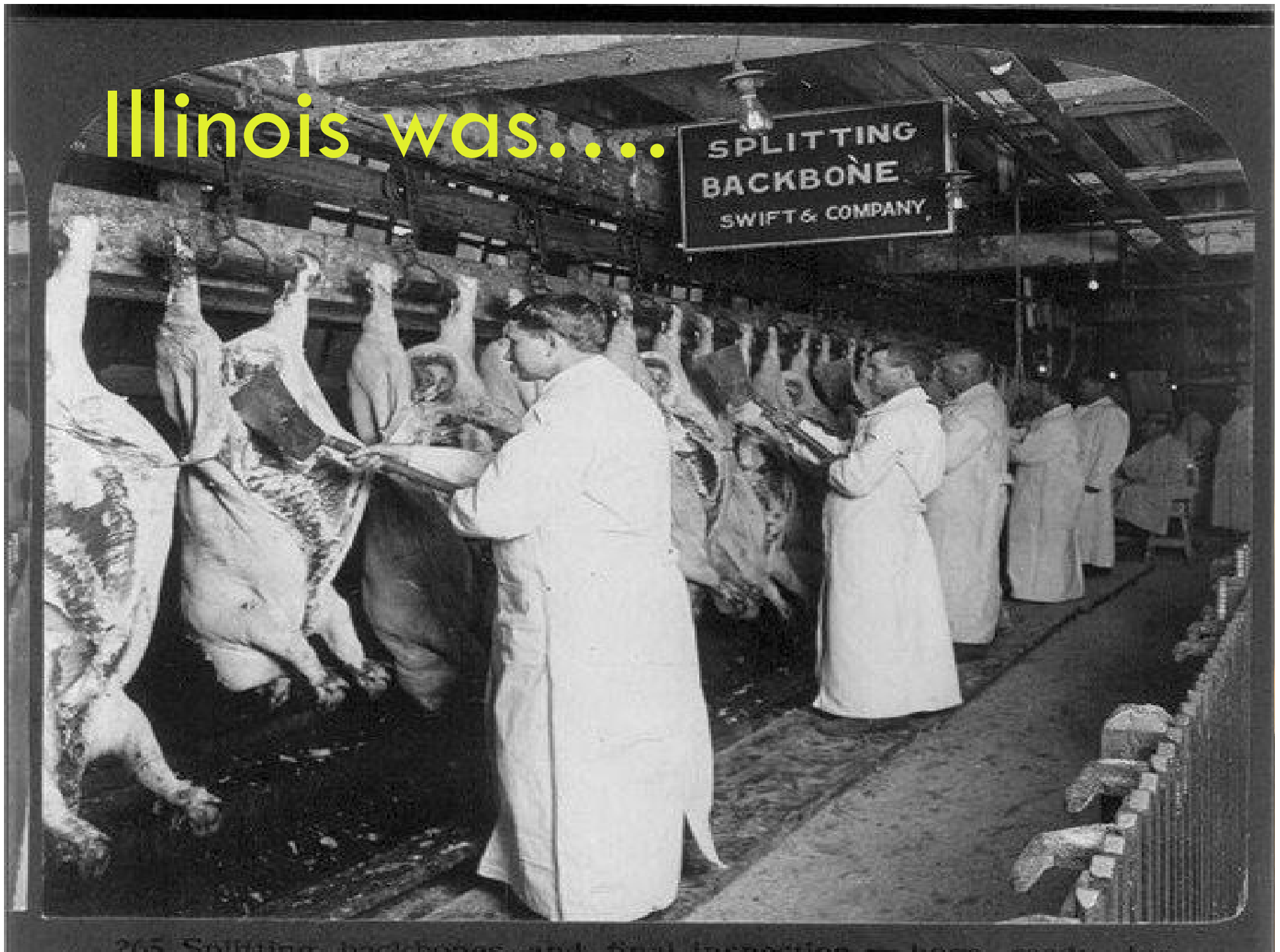


Collaboration among regional stakeholders



Leveraging the value of learning and the learning ecosystem to support and spur economic growth

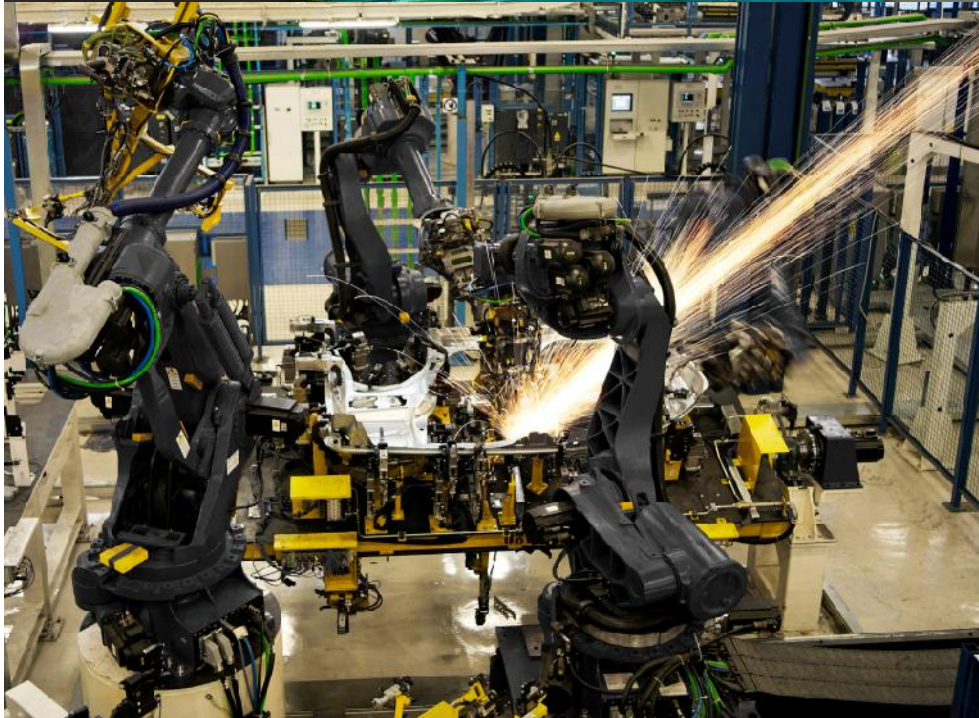
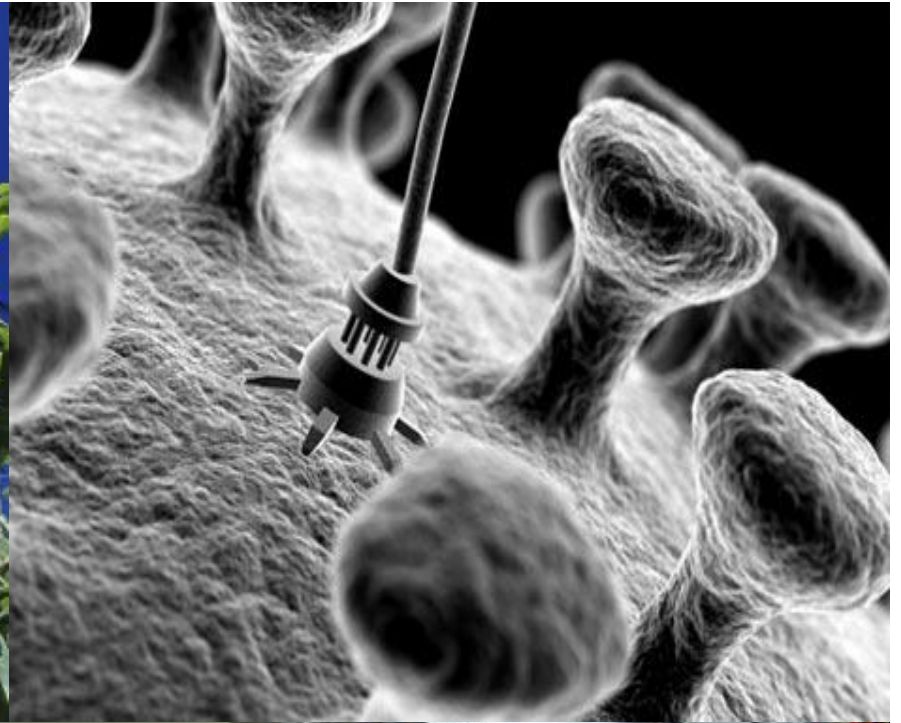
Illinois was....



265 Splitting backbones and final inspection — hogs ready for

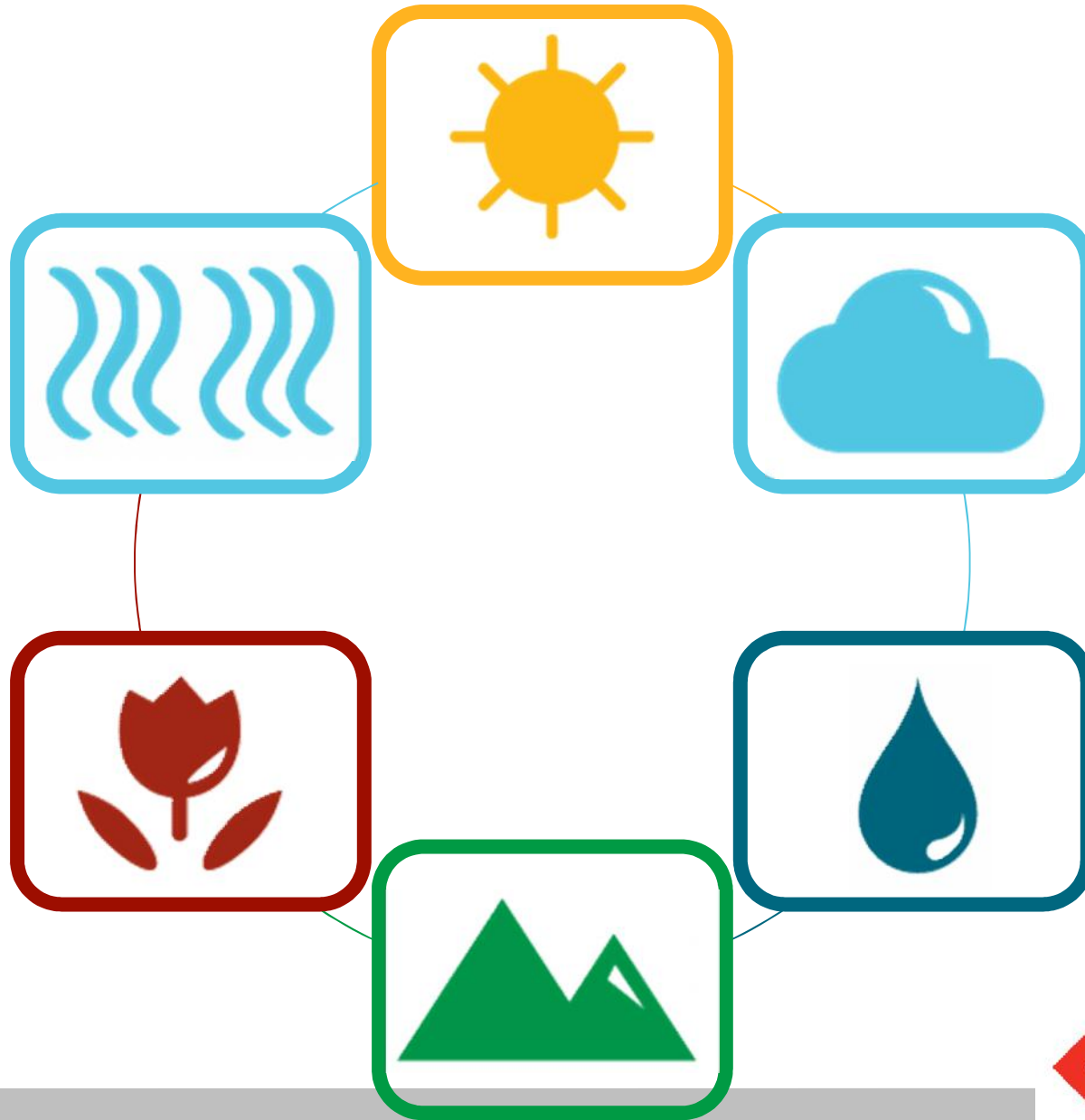


Illinois is...





Healthy Education Ecosystem Framework



CAEL



Education Ecosystem Framework

THE ENERGY SOURCE



What's driving job creation?

THE CLOUDS GATHER



Are employers engaged and drawn to your community?

THE RAIN DANCE



Are workers aware of career opportunities?

THE GROUNDWATER TEST



Do local education options meet the range of needs?

THE DIVERSE PLANT LIFE



Do education & training programs engage all learners?

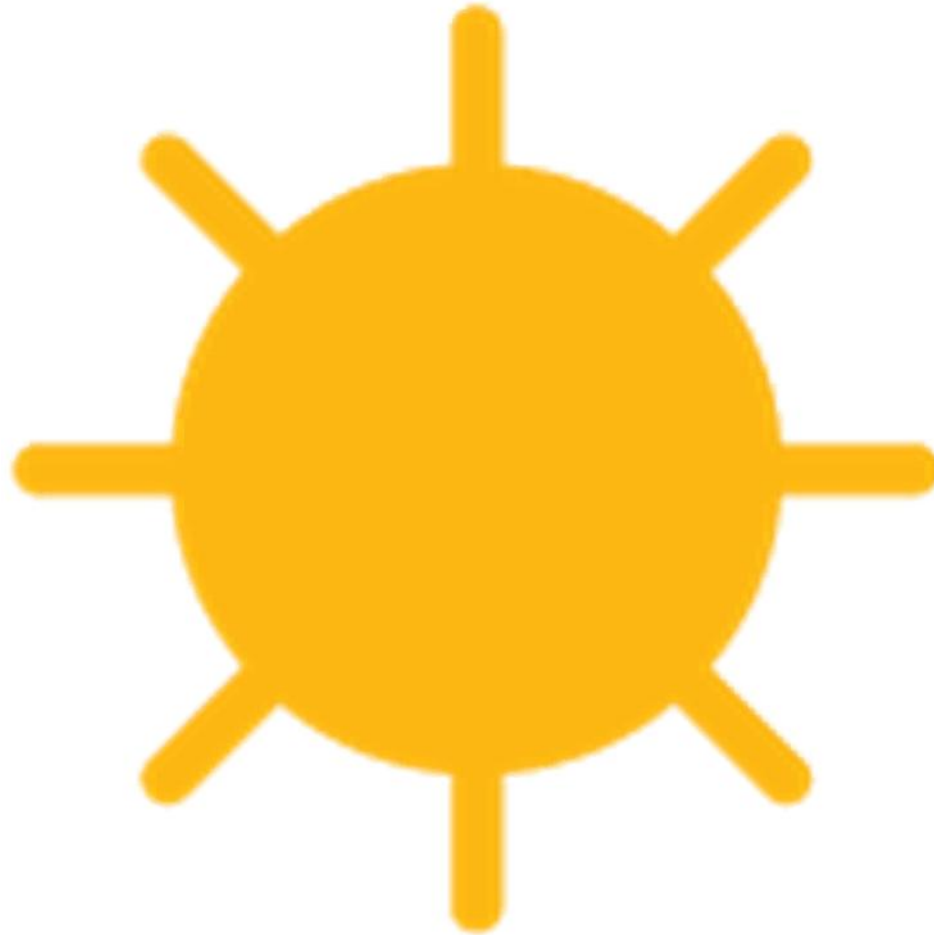
THE TRIP BACK TO THE CLOUDS



Are programs building resourceful and resilient workers?

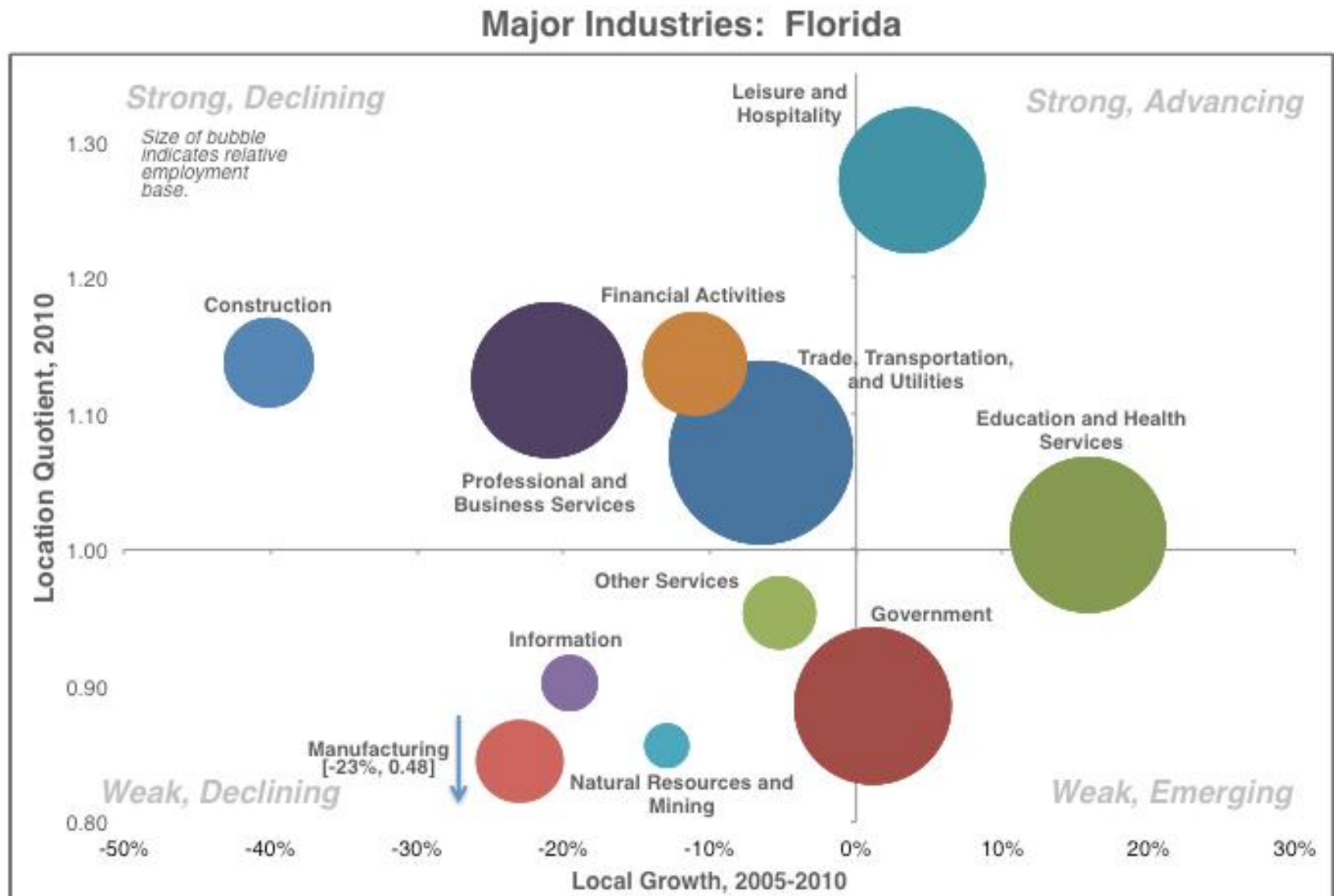


What's driving job creation?





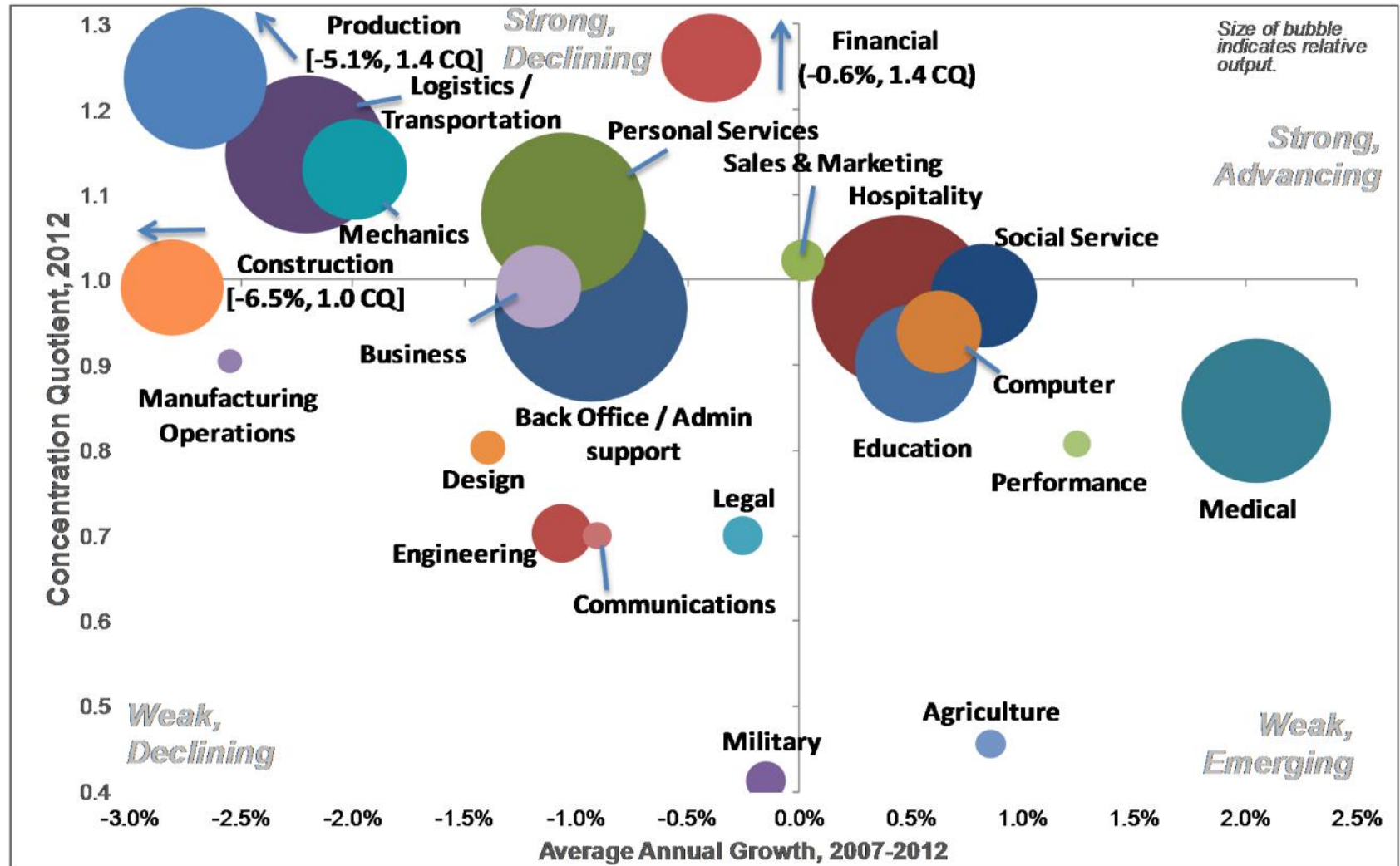
Industry Targeting





Occupational Targeting

Occupational Clusters: Greater Charlotte Region



Source: Avalanche Consulting using data EMSI

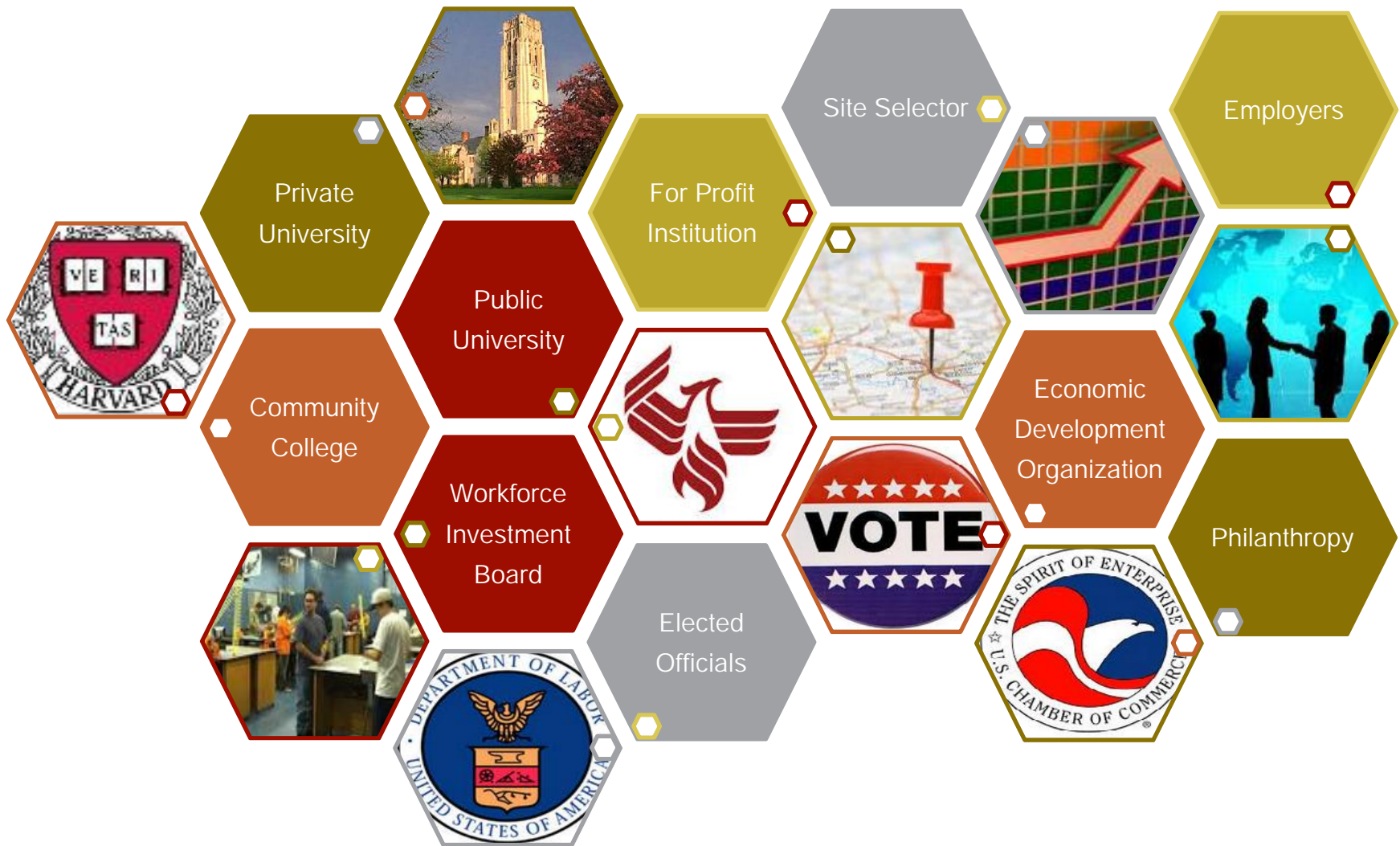


What kinds of learning opportunities are available?





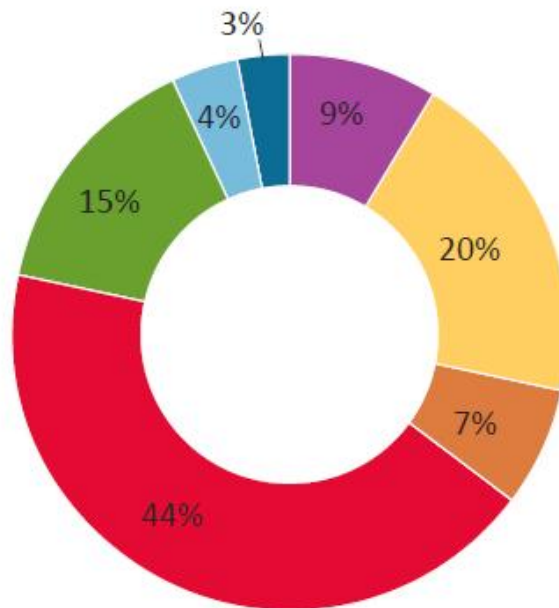
Learning Ecosystem Players





Information Technology

Credentials Available by Type



- Certificate — 29
- Associate Degree — 67, including 9 online**
- Minor — 24
- Bachelor's Degree — 149, including 15 online**
- Master's Degree — 50, including 4 online*
- Doctorate — 12, including 1 online**
- Other* — 10
- TOTAL — 341**

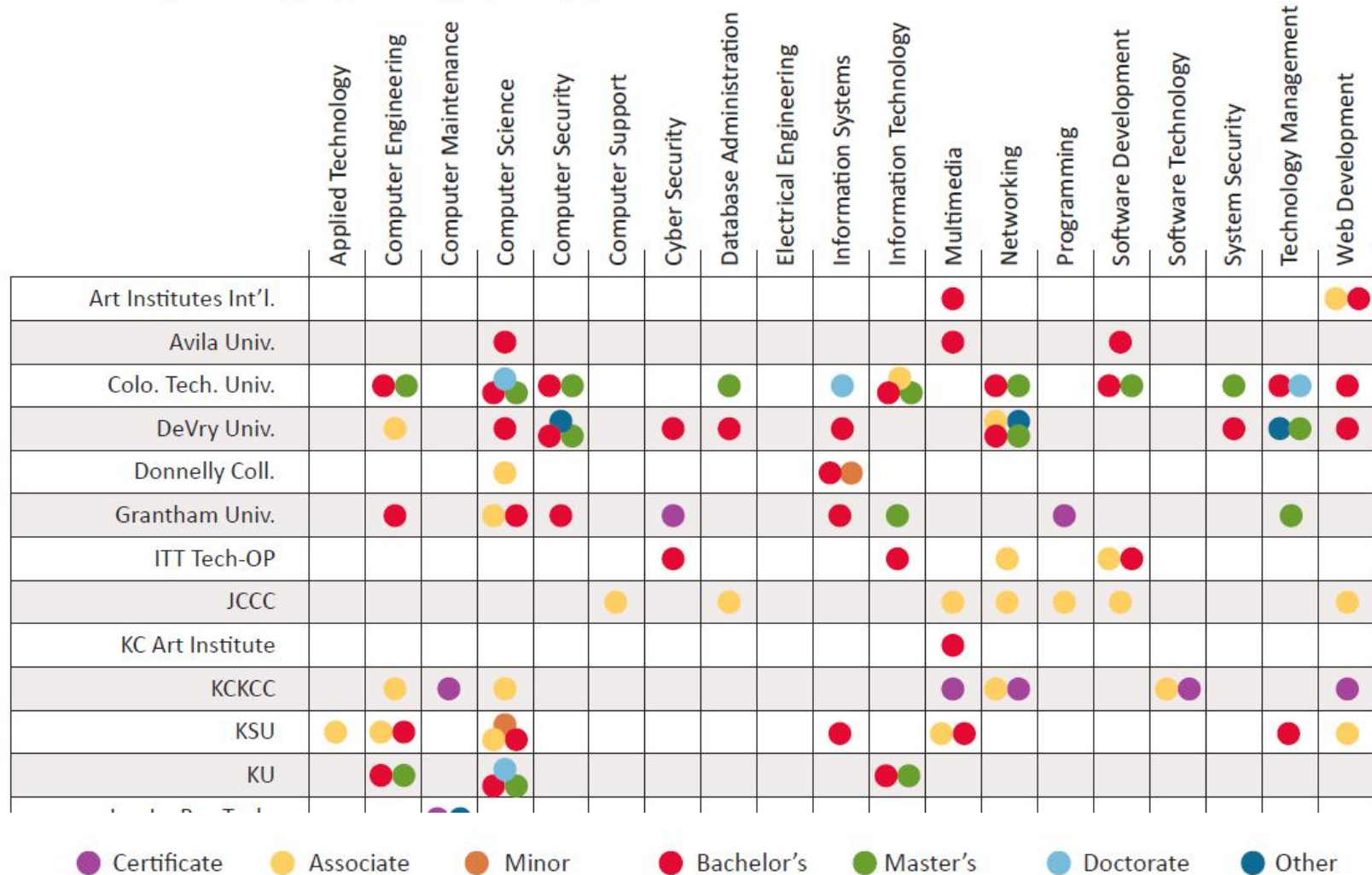
* Other includes graduate certificate, short-term training, and high school/postsecondary training

** All online credentials are at for-profit institutions and are included in that row in the table below



Education Assets/Strengths

Information Technology Programs by Institution







How Aware Are Your Workers of Opportunities for Learning and Work?






**COLORADO'S
ADVANCED MANUFACTURING INDUSTRY**


Job Types | Employers | Education Providers | Advanced Manufacturing



Colorado is booming with jobs in
ADVANCED MANUFACTURING

LEARN MORE


**16K**
ADVANCED MANUFACTURING JOBS GO UNFILLED EACH YEAR
COECON COLLABORATIVE ECONOMICS, JULY 2014

**COLORADO IS ONE OF THE TOP 10**
STATES IN MANUFACTURING
NATIONAL ASSOCIATION OF MANUFACTURERS



Ohio Bioworkforce

EXPLORE CAREERS | DEVELOP SKILLS | STATE EDUCATION MAP | DISCOVER EDUCATION | ABOUT US



Bioscience Careers
When you hear bioscience does your mind go blank? Bioscience offers good jobs that pay well and help people. Explore this diagram to see jobs from the lab to the factory to the sales office.

Bioscience Careers
The bioscience industry includes health care, pharmaceuticals, biotechnology, and agriculture. Bioscience offers terrific jobs and career opportunities. Most work environments have

JOB TYPES IN ADVANCED MANUFACTURING

[Choose a Job Type or Popular Career Path to learn more](#)

Size of circle indicates current number of job opportunities within that job type

● EXCELLENT Job Opportunities | ● GREAT Job Opportunities | ● GOOD Job Opportunities

QUALITY ASSURANCE / CONTROL



ELECTRICAL & MECHANICAL
MAINTENANCE TECHNICIANS



MACHINIST OPERATOR / PROGRAMMER



ENGINEERING / R&D



LOGISTICS & SUPPLY CHAIN



PRODUCTION & ASSEMBLY



SALES



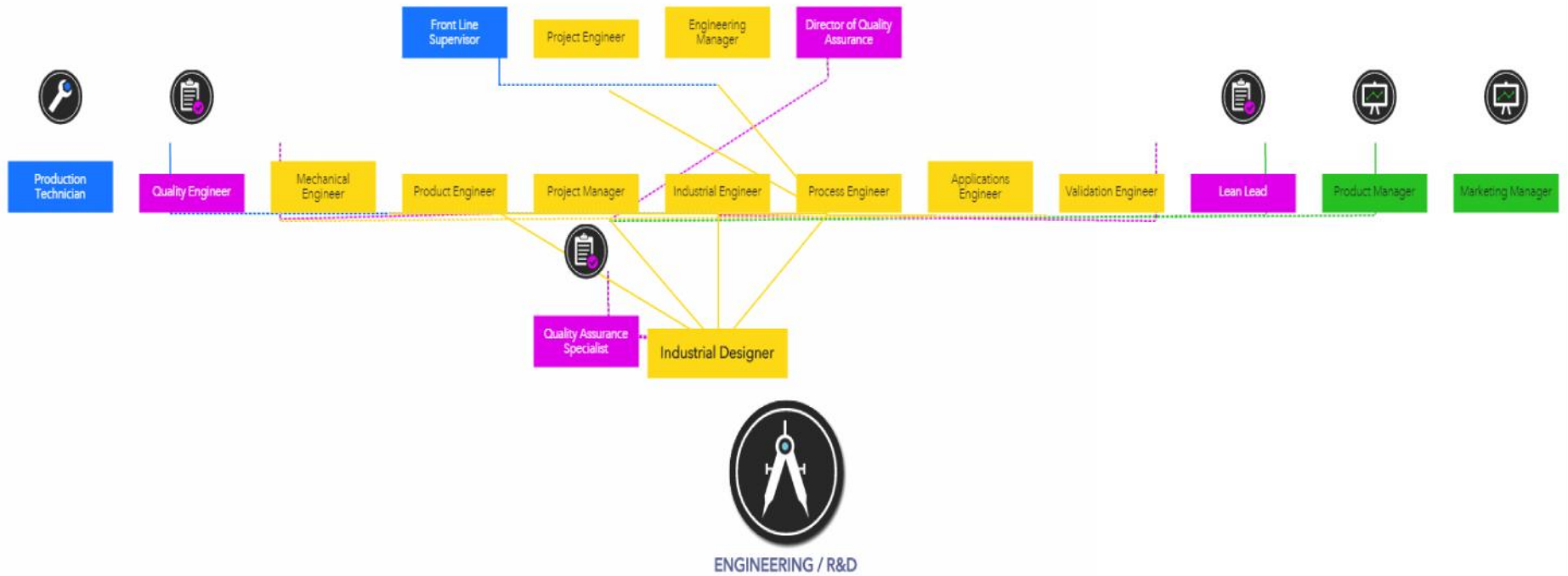
WELDER / SOLDERER



INDUSTRY MAP

INDUSTRIAL DESIGNER

Click on a job or new category to learn more.



ENGINEERING / R&D



BACK TO THE FULL INDUSTRY MAP

Quality Assurance / Control	Logistics & Supply Chain
Electrical & Mechanical Maintenance Technicians	Production & Assembly
Machinist Operator / Programmer	Sales
Engineering / R&D	Welder / Solderer

Career paths across job types

Career paths within job type



Are we leveraging the full range of talent in the community?





Are we leveraging the full range of talent in the community?

Are programs delivered in ways that maximize learning opportunities?

Are we acknowledging that learning occurs both formally and informally?

How do postsecondary programs relate to both short- and long-term economic and workforce needs?

Are we proactively engaging adult and non-traditional learners?



Adult Learning Focused Institutions (ALFI)

- Outreach
- Life and Career Planning
- Financing
- Assessment of Learning Outcomes
- Teaching/Learning Process
- Student Support
- Technology
- Strategic Partnerships
- Transitions

Example: ALFI across Eastern Connecticut Institutions

	<i>Outreach</i>	<i>Life, Career Planning</i>	<i>Financing</i>	<i>Assessment of Learning Outcomes</i>	<i>Teaching/Learning Process</i>	<i>Student Support Systems</i>	<i>Technology</i>	<i>Strategic Partnerships</i>	<i>Transitions</i>
Anna Maria College	Green	Red	Green	Green	Green	Green	Green	Red	Green
Assumption College	Green	Green	Green	Green	Green	Yellow	Green	Gray	Green
Bryant College	Green	Yellow	Green	Yellow	Gray	Yellow	Green	Gray	Green
Charter Oak College	Green	Yellow	Green	Green	Gray	Green	Green	Green	Green
Clark University	Green	Gray	Green	Green	Green	Green	Red	Gray	Green
Connecticut College	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Red	Red	Green
Eastern CT State Univ	Yellow	Yellow	Green	Green	Yellow	Green	Yellow	Green	Green
Fitchburg State Univ	Green	Yellow	Red	Yellow	Green	Green	Green	Green	Green
Mt Wachusett Community College	Green	Yellow	Green	Green	Green	Yellow	Green	Green	Green
Nichols College	Green	Green	Green	Green	Green	Green	Green	Green	Green
Quinebaug Valley Community College	Green	Yellow	Green	Green	Green	Green	Green	Green	Green

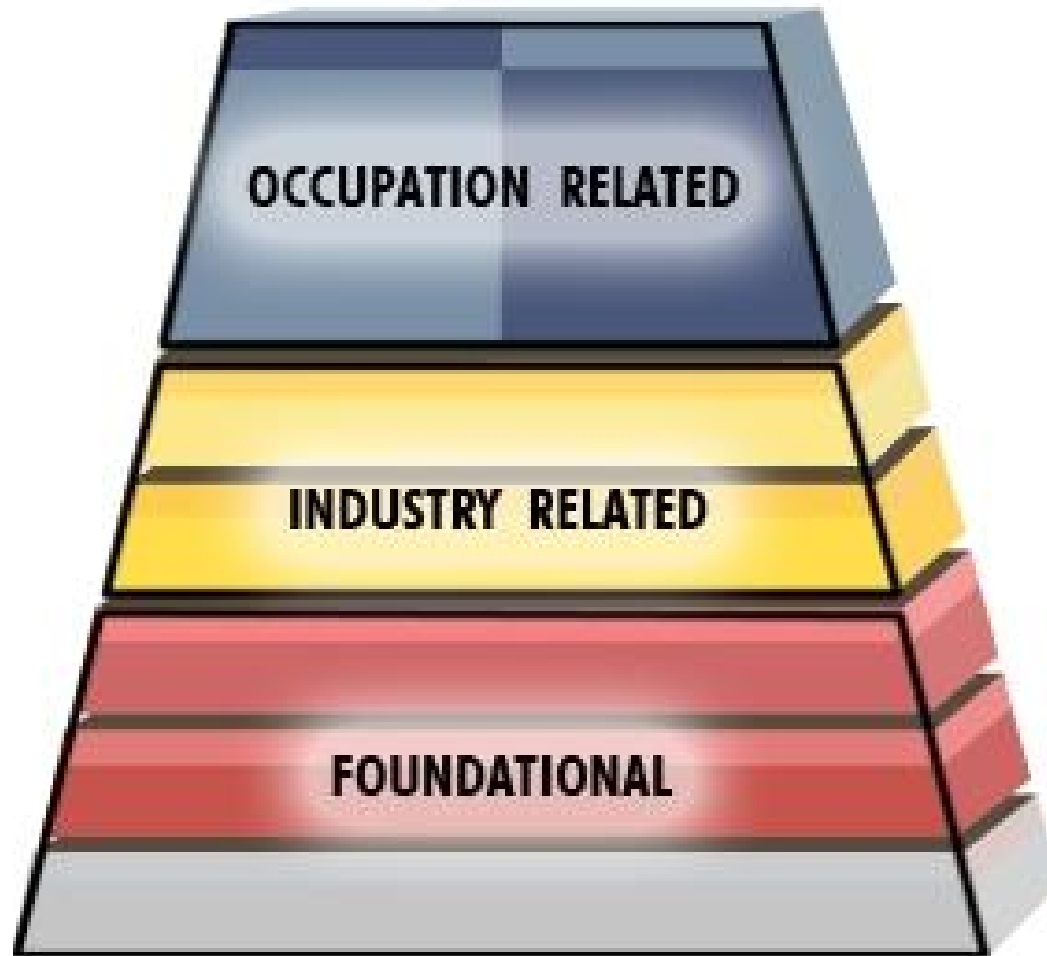


Resilience





What are Skills building blocks?



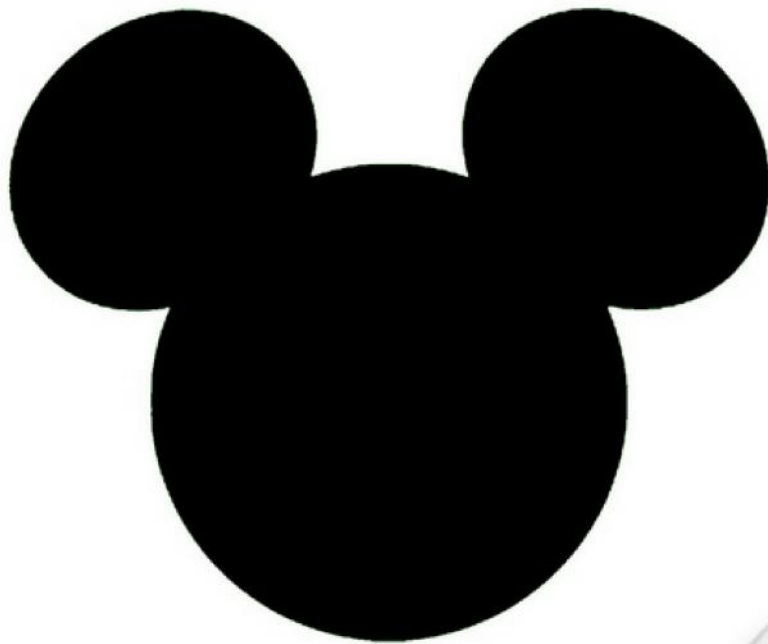
<http://www.careeronestop.org/competencymodel/>





What does it add up to?



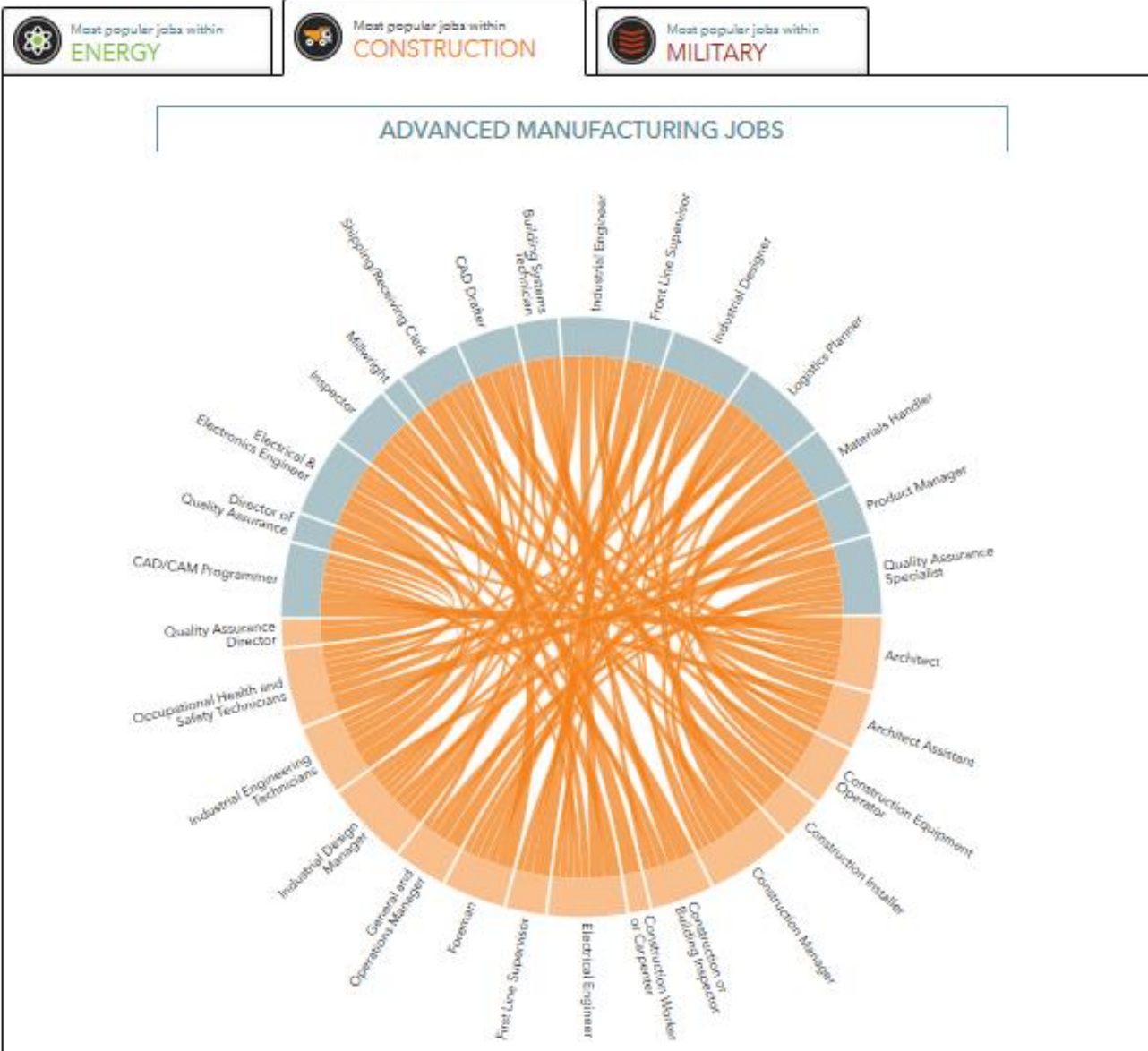


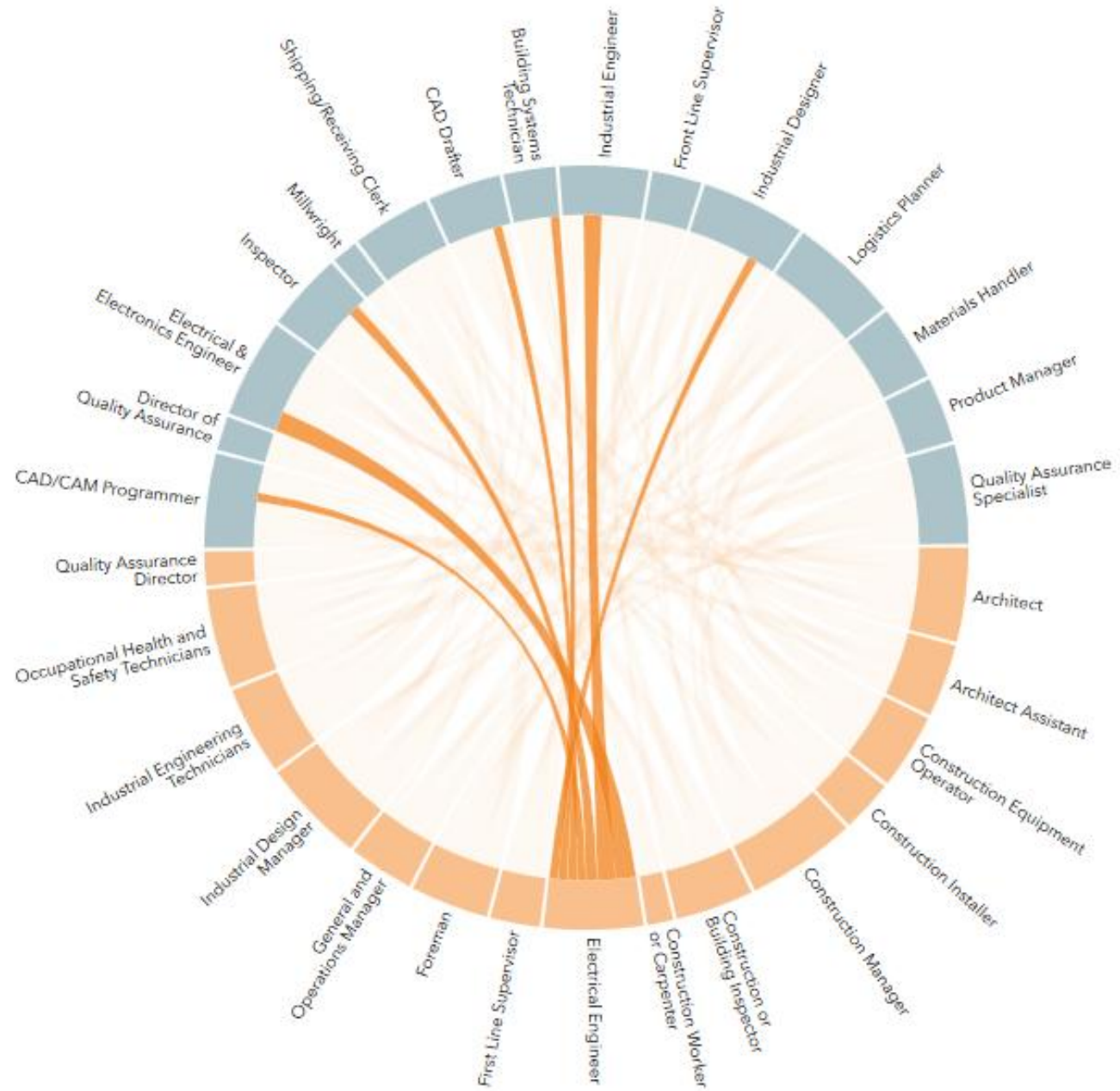




MATCH YOUR CURRENT JOB TO A JOB IN ADVANCED MANUFACTURING

Look for your current job title below, then select it to see matches to jobs within Advanced Manufacturing.







Prior Learning Assessment:

Earning College Credit for what you already know





Building the Education Strategy



Content



Communication



Collaboration



Capacity





Thank you!

Joel Simon

Vice President for Workforce and Economic Development

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312.499.2678



Workforce Data

- O*Net

<http://www.onetonline.org>

- Bureau of Labor Statistics

<http://bls.gov.data.#employment>

- Labor Market Data

- www.burning-glass.com
- www.emsinet.com
- www.headlightdata.com



Skills Information

US Dept of Labor Competency Models

<http://www.careeronestop.org/competencymodel/>

Colorado Advanced Manufacturing

www.cocareeractiontools.com

Ohio Bioscience

www.bioohioworkforce.org

Telecommunications

www.vividifuture.com



Workforce Funding

US Dept of Labor Grants

http://www.doleta.gov/grants/find_grants.cfm

National Fund for Workforce Solutions

<http://www.nfwsolutions.org/>

One Stop Career Centers

<http://www.servicelocator.org/workforcecontacts.asp>



Various Workforce Planning Toolkits

- <https://www.workforce3one.org/page/toolkits>
- <http://www.usgs.gov/humancapital/sw/workforceplanning/workforcetoolkit.html>
- <https://cptoolkitcatalog.peerta.acf.hhs.gov/toolkits?&&&&page=3>
- <http://www.inquiry2improvement.com/attachments/article/12/PWs-Demystified-Johnstone-110315.pdf>