

Chicago Tech Talent Coalition



The Next 10 Minutes



What's around the bend?



Are we preparing Illinoisans for this future?



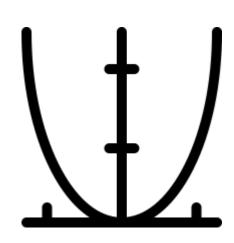
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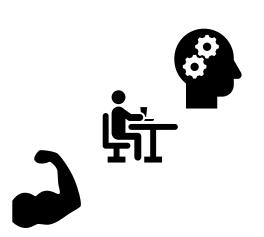
Three Forces Shaping the Future of Work

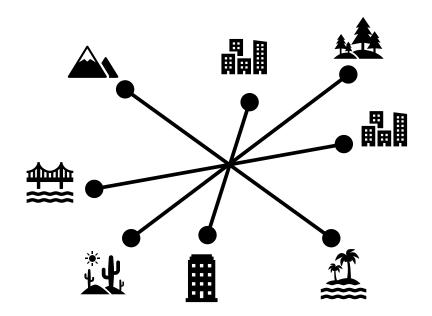
1 Labor Market Polarization

2 Skills Shift

New Working Models (Remote, Contingent)



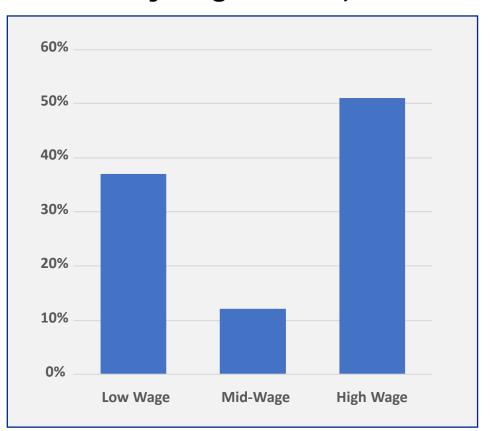




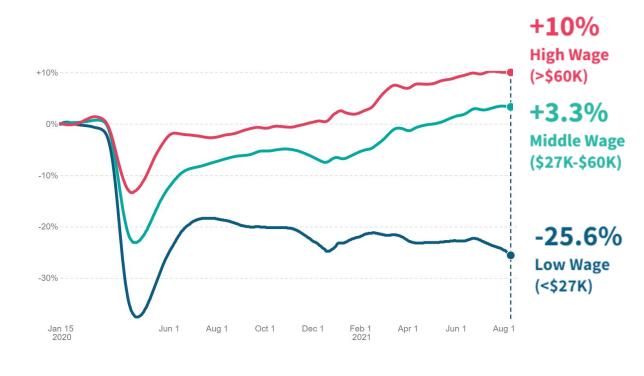
Today's Focus

The job market has been polarizing into high-wage and low-age jobs, exacerbating racial disparities

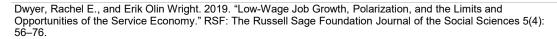
Job Growth by Wage Tercile, 2009 - 2017



Job Recovery by Wage Tier, 2020-2021

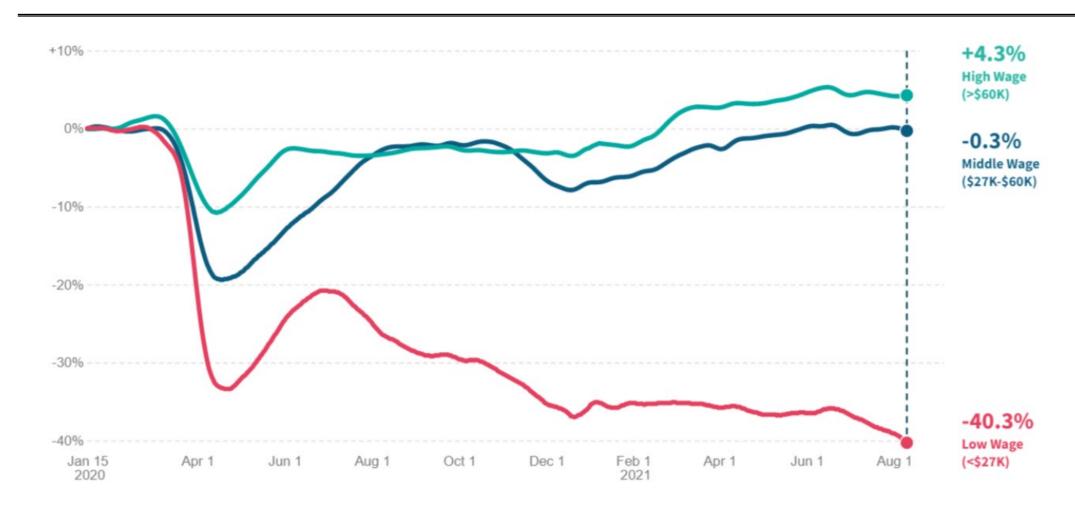




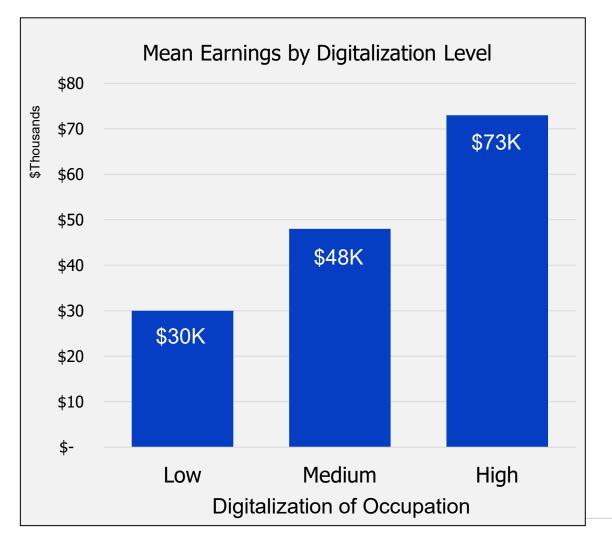




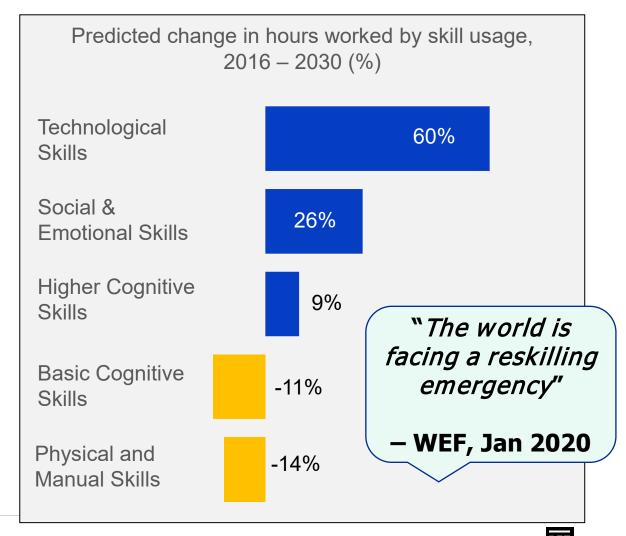
In Illinois, the recovery gap between high-wage and low-wage employment is more dramatic



JOBS RELYING ON DIGITAL SKILLS PAY BETTER



AND DEMAND FOR THESE SKILLS WILL GROW RAPIDLY



Chicago's Digital Workforce Dynamics High-wage, high-growth roles Bubble size equals size of tech workforce in Chicago. 160K Cloud Computing 140K **DevOps** Cybersecurity 120K Data & Analytics Product Development Software Engineering 100K Network & Systems Admin **80K** Tech Support **60K** Increasing Demand

In Chicago, Engineering and Data roles are driving tech's rapid employment growth

- 90%+ of companies expect an increase in these roles over the next 3 years
- 52% of companies expect a significant increase in software engineering employees over the next 3 years
- More "accessible" roles will be flat or declining, and with lower wages



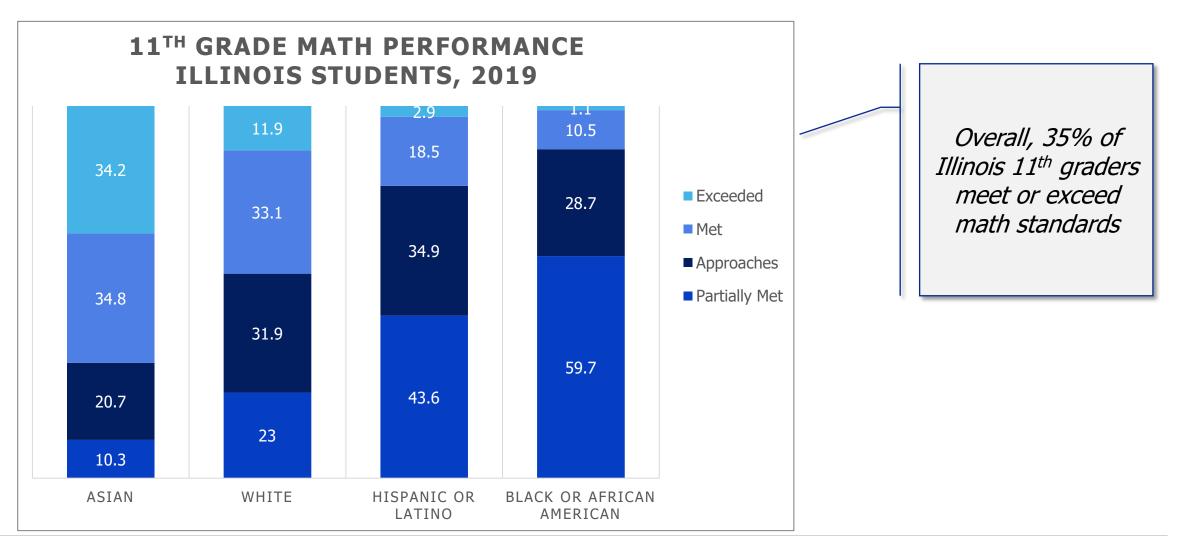


- HAVING THE RIGHT
- HAVING PRIOR RELEVANT WORK OR PROJECT EXPERIENCE
- BEING EFFECTIVE COMMUNICATORS AND PRESENTERS

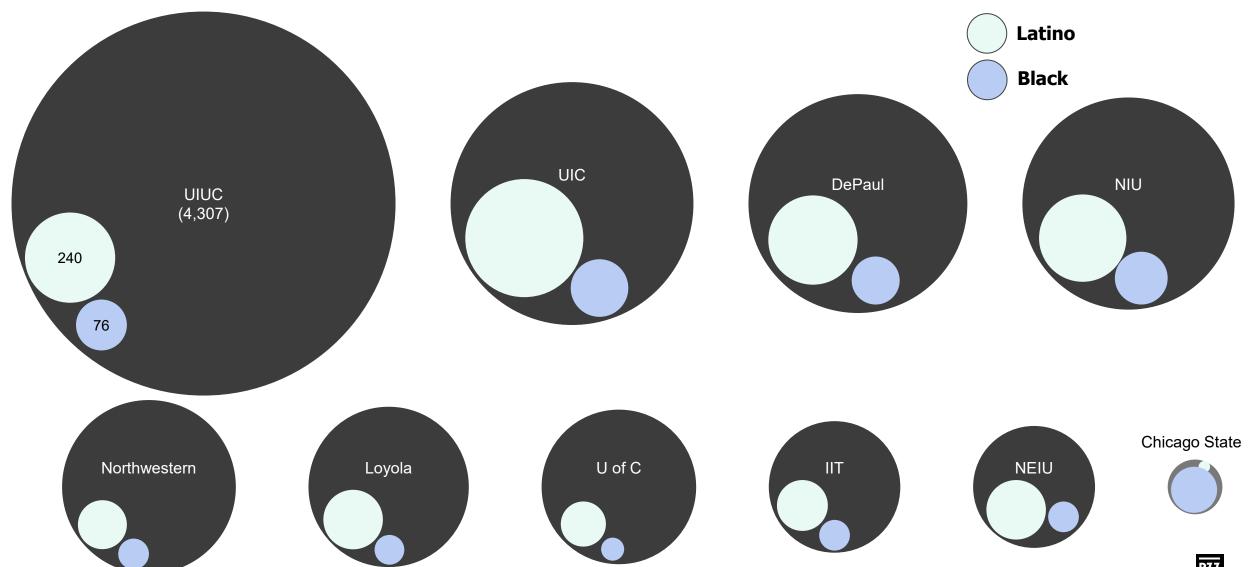


Are we preparing Illinoisans for these roles?

Shortcomings in math readiness at the 11th grade limit options for pursuing post-secondary paths into digital careers



Black and Latino students are extremely underrepresented in graduating classes of computing and other quantitative majors



Source: https://www.ibhe.org/EnrollmentsDegrees/search.aspx

We are under-utilizing alternative pathways into tech jobs

Apprenticeships

0.09%

Registered apprenticeships in Illinois are in tech roles (~15 people)

Bootcamps

LAST

Chicago's rank among 10 competitor cities in per capita bootcamp grads...&

LAST

Of 10 competitor cities in growth of bootcamp graduates

WIOA ITAs

~10%

Individual Training Account vouchers in Chicago-Cook are for tech roles (~300 people)



The cumulative output is a tech workforce too small because it leaves too much talent on the sidelines

14%

19

600

The majority of Chicago's population is Black or Latinx, but those groups hold only 14% of the best tech jobs in the city

Illinois colleges only
awarded 19 bachelors
degrees in Computer
Science to Black women in
2019...and even fewer in
years prior

We estimate the State of Illinois is losing out every year on 600 Black and Latinx bachelors degree graduates in computing

It's a pipeline issue and a company issue

Summary

Our Challenge

We are failing to prepare Illinois students for the techand data-centric future of work

We are especially failing Black and Latino students in these areas



Responses

Expand and improve computer science and data science education in high schools and colleges

Increase work-based learning opportunities







