

The Urgency for Real-Time Data

C2ER Annual Conference & LMI Forum

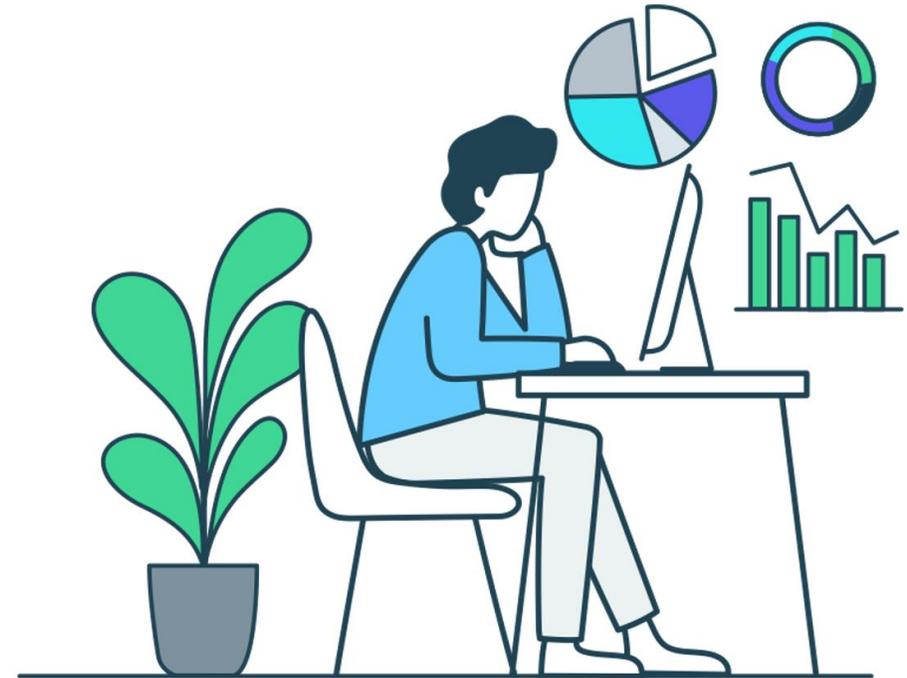
Josh Wright

Emsi



Agenda

- Why real-time data?
- Emergence of new real-time data
- Daily job posting trends
- Community dashboards
- Making meaning of real-time data



Why real-time data?



Emergence of new real-time data

Not just UI claims and job loss numbers

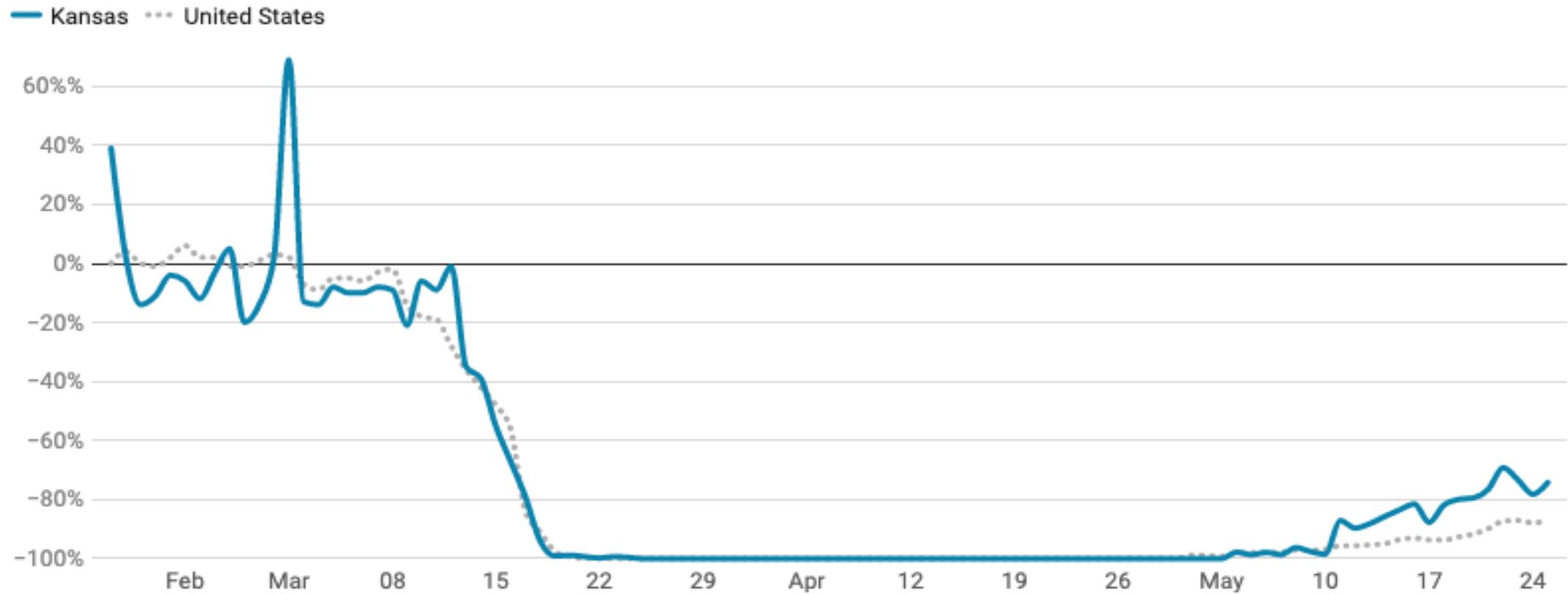


“Looking past this pandemic, how do we encourage more up-to-date, more real-time data that can track the economic conditions on the ground?”

Chuck McShane
Charlotte Regional Business Alliance

COVID-19 Real-Time Indicators

Seated Diners - % Change 2019 to 2020



Source: eIMPACT / OpenTable

COVID-19 Real-Time Indicators



Transportation Security Administration



Date	Total Traveler Throughput	Total Traveler Throughput (1 Year Ago - Same Weekday)
5/21/2020	318,449	2,673,635
5/20/2020	230,367	2,472,123
5/19/2020	190,477	2,312,727
5/18/2020	244,176	2,615,691
5/17/2020	253,807	2,620,276
5/16/2020	193,340	2,091,116
5/15/2020	250,467	2,664,549
5/14/2020	234,928	2,611,324

Source: TSA / @ConorSen

COVID-19 Real-Time Indicators

Downloads of the top 17 US online travel agencies bounce back

Daily downloads, US



Emsi Health Risk Index

COVID-19 HEALTH RISK INDEX

Additional COVID-19 Resources

Location-Based Health Risk

Health Risk Index

COVID-19 Incidence Rates & Prevalence

Preconditioned Population

Population Density

Workplace Interactions

Population Health

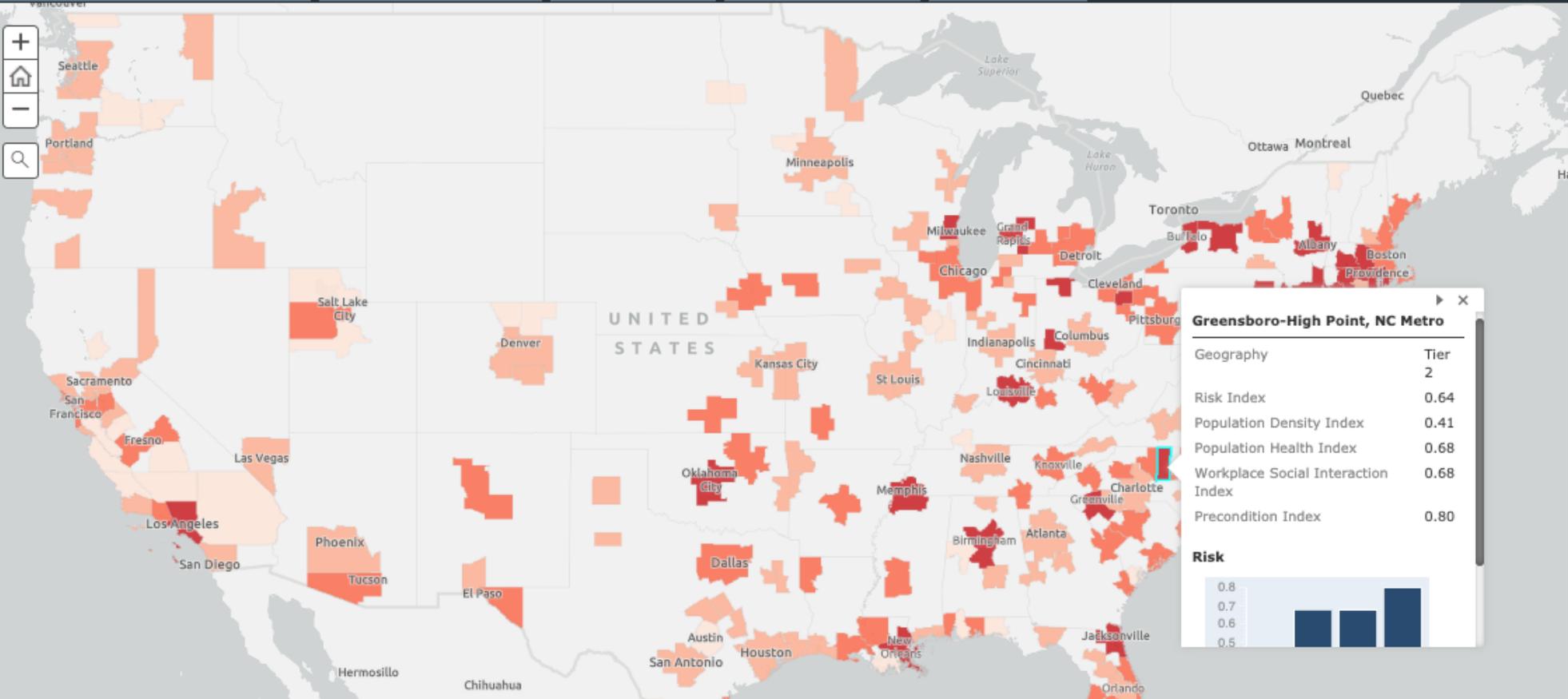
The Emsi Health Risk Index



To create the Emsi Health Risk Index, we combined regional data on the social determinants of health for a risk score based on modeling, ranking, and predicting COVID-19 impact by location. (This risk analysis is provided for major metropolitan areas only. For additional county-level analysis, please [contact us](#).)

The Emsi Health Risk Index gives data-driven insight on the communities where viral exposure can lead to higher incidence rates based on the following four community-level health indicators:

- **PRECONDITIONED POPULATION:** the number of people who, within the past year, have been treated for diabetes, visited a cardiologist, taken asthma medications, or smoked.
- **POPULATION DENSITY:** the number of people per square mile in the region.
- **WORKPLACE INTERACTIONS:** a measure of the overall workplace density of specific industries.

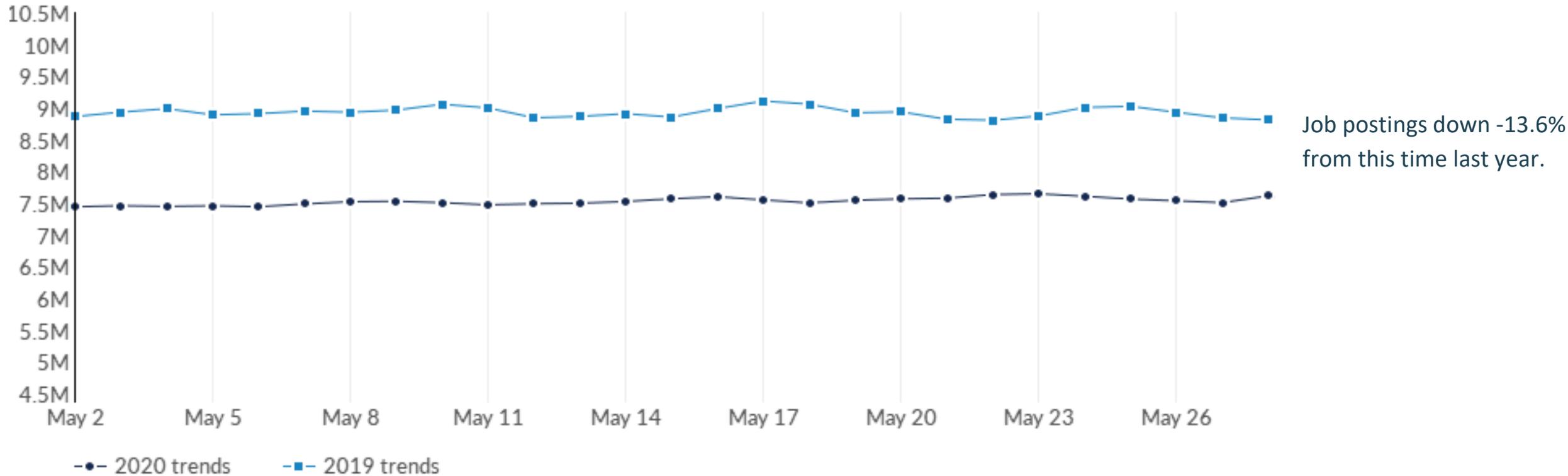


Job Postings

Real-time trends

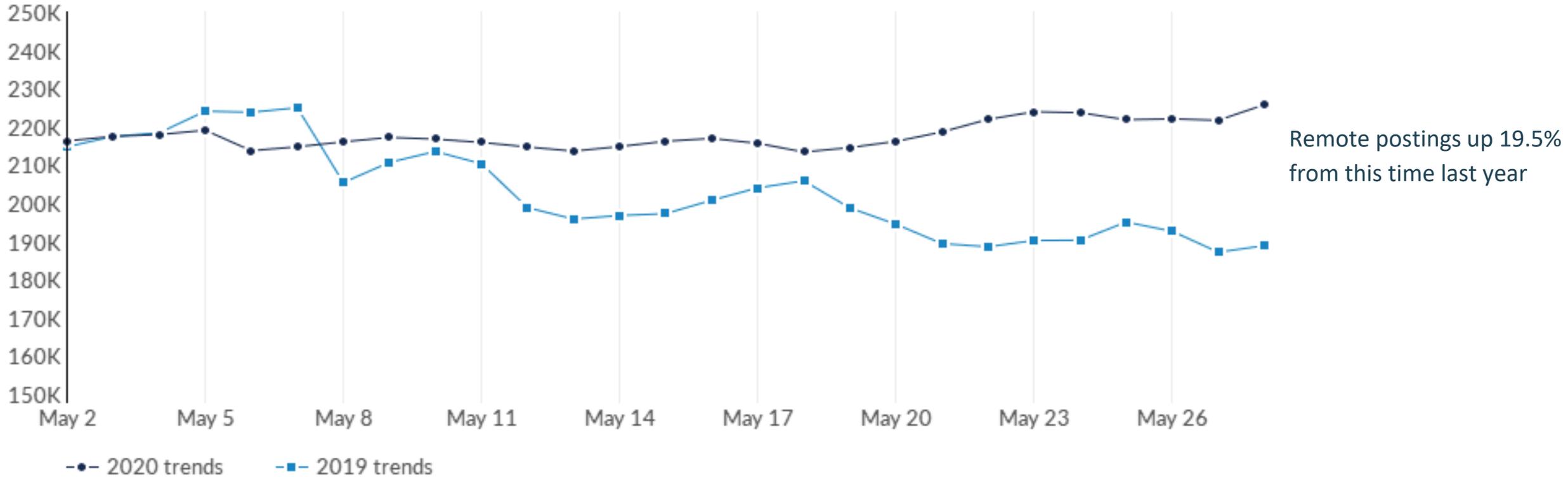


Overall Job Postings Down



Source: Emsi Job Postings Analytics

Remote Postings Up



Source: Emsi Job Postings Analytics

Increases Across Most Industries

Indexed to January Average weekly new postings																
Industry	2/3/20	2/10/20	2/17/20	2/24/20	3/2/20	3/9/20	3/16/20	3/23/20	3/30/20	4/6/20	4/13/20	4/20/20	4/27/20	5/4/20	5/11/20	5/18/20
Accommodation and Food Services	42%	3%	-22%	4%	-15%	-16%	-21%	-30%	-37%	-3%	3%	-9%	34%	16%	24%	-3%
Administrative and Support and Waste Management and Remediation Services	-9%	-23%	-5%	-1%	2%	-8%	-9%	4%	-15%	-8%	-17%	-5%	7%	-11%	-15%	3%
Agriculture, Forestry, Fishing and Hunting	0%	14%	-19%	-20%	3%	16%	-26%	-19%	-11%	-6%	84%	40%	46%	-31%	-23%	3%
Arts, Entertainment, and Recreation	17%	-10%	-8%	-14%	7%	7%	-27%	-36%	-41%	-20%	-16%	0%	16%	29%	-10%	47%
Construction	3%	-15%	-4%	10%	9%	5%	-14%	-22%	-19%	-25%	-18%	-5%	26%	45%	3%	29%
Educational Services	2%	-13%	-17%	-1%	2%	-2%	-18%	-33%	-29%	2%	-21%	10%	7%	3%	49%	-7%
Finance and Insurance	10%	-15%	-18%	-14%	40%	-2%	-22%	24%	-26%	-33%	-22%	-27%	1%	-12%	-15%	39%
Health Care and Social Assistance	5%	-16%	6%	15%	1%	-4%	-15%	-21%	-22%	-5%	-23%	-1%	8%	8%	6%	19%
Information	0%	-15%	-18%	0%	19%	16%	-21%	-30%	-37%	-32%	-22%	13%	28%	-3%	-8%	9%
Management of Companies and Enterprises	13%	-24%	-13%	6%	-15%	-6%	-14%	-15%	-40%	14%	-35%	-20%	18%	-8%	3%	7%
Manufacturing	5%	-17%	-5%	0%	9%	2%	-18%	-26%	-30%	-23%	-27%	2%	22%	8%	5%	14%
Mining, Quarrying, and Oil and Gas Extraction	26%	-25%	1%	0%	-11%	14%	-30%	-6%	16%	-18%	-24%	-30%	-11%	-3%	-7%	28%
Other Services (except Public Administration)	7%	-22%	-15%	6%	2%	-8%	-23%	-37%	-39%	-28%	-25%	11%	51%	36%	12%	46%
Professional, Scientific, and Technical Services	-4%	-14%	-1%	7%	16%	-2%	4%	-29%	-31%	-21%	-18%	10%	4%	9%	-11%	10%
Public Administration	25%	8%	-3%	-15%	-13%	-2%	-8%	-18%	12%	-7%	-4%	-19%	-10%	-6%	-5%	11%
Real Estate and Rental and Leasing	16%	-15%	2%	-5%	3%	-11%	-20%	-30%	-24%	-4%	-18%	6%	17%	12%	6%	20%
Retail Trade	4%	-17%	-12%	3%	11%	10%	5%	-1%	-33%	-24%	-24%	-5%	44%	22%	2%	15%
Transportation and Warehousing	-14%	-19%	46%	22%	-23%	5%	4%	-55%	85%	-1%	-13%	-28%	-12%	7%	11%	30%
Unclassified Industry	9%	6%	12%	3%	-19%	-13%	2%	-37%	-4%	-15%	-5%	32%	30%	8%	11%	19%
Utilities	0%	-7%	23%	-2%	-7%	1%	-20%	-25%	-25%	-30%	-13%	22%	46%	291%	-33%	-44%
Wholesale Trade	10%	-20%	-8%	-9%	-4%	-1%	-16%	-28%	-30%	-12%	-30%	6%	13%	4%	3%	21%

Source: Emsi Job Postings Analytics

Top States Rebounding

Top 5 States	Unique Postings % Change
Delaware	5.2%
Alaska	3.2%
Arkansas	2.4%
Kentucky	2.2%
Montana	2.2%
Bottom 5 States	Unique Postings % Change
Wisconsin	-2.6%
Washington	-2.6%
Wyoming	-2.8%
District of Columbia	-3.3%
Rhode Island	-3.5%

*Source: Emsi Job Posting Analytics
Comparing Week ending May 24th to Week ending of May 31st Change*

Large MSAs Rebounding

Top Large MSAs (1M+ population)	Latest 7 Days Unique Postings % Change
New Orleans-Metairie, LA	1.7%
Louisville/Jefferson County, KY-IN	1.3%
Hartford-East Hartford-Middletown, CT	1.3%
Buffalo-Cheektowaga, NY	1.2%
San Antonio-New Braunfels, TX	1.0%
Birmingham-Hoover, AL	0.9%
Sacramento-Roseville-Folsom, CA	0.7%
Atlanta-Sandy Springs-Alpharetta, GA	0.7%
Fresno, CA	0.6%
Jacksonville, FL	0.4%

Source: Emsi Job Posting Analytics

Comparing week ending May 24th to week ending of May 31st change

Large MSAs Struggling

Bottom Large MSAs (1M+ population)	Latest 7 Days Unique Postings % Change
Riverside-San Bernardino-Ontario, CA	-2.4%
Salt Lake City, UT	-2.5%
Cleveland-Elyria, OH	-2.6%
Milwaukee-Waukesha, WI	-2.8%
New York-Newark-Jersey City, NY-NJ-PA	-2.9%
Providence-Warwick, RI-MA	-3.0%
Kansas City, MO-KS	-3.0%
Richmond, VA	-3.3%
Seattle-Tacoma-Bellevue, WA	-4.2%
Oklahoma City, OK	-4.3%

Source: Emsi Job Posting Analytics

Comparing week ending May 24th to week ending of May 31st change

Mid-Size MSAs Rebounding

Top Mid-Size MSAs (250k - 999,999k population)	Latest 7 Days Unique Postings % Change
Montgomery, AL	4.5%
Peoria, IL	4.4%
Sioux Falls, SD	3.6%
Cape Coral-Fort Myers, FL	3.5%
Davenport-Moline-Rock Island, IA-IL	3.1%
Pensacola-Ferry Pass-Brent, FL	3.0%
Canton-Massillon, OH	2.9%
Lubbock, TX	2.8%
Huntington-Ashland, WV-KY-OH	2.7%
Des Moines-West Des Moines, IA	2.6%

Source: Emsi Job Posting Analytics

Comparing week ending May 24th to week ending of May 31st change

Mid-Size MSAs Struggling

Bottom Mid-Size MSAs (250k - 999,999k population)	Latest 7 Days Unique Postings % Change
College Station-Bryan, TX	-4.5%
Spartanburg, SC	-4.6%
Olympia-Lacey-Tumwater, WA	-4.7%
Fort Collins, CO	-5.3%
Boulder, CO	-5.7%
Merced, CA	-5.9%
Tuscaloosa, AL	-5.9%
Ocala, FL	-5.9%
Greeley, CO	-6.4%
Laredo, TX	-8.6%

Source: Emsi Job Posting Analytics

Comparing week ending May 24th to week ending of May 31st change

Real-Time Data and Dashboards in Communities



Birmingham Business Alliance



How have businesses in the Birmingham region been impacted by COVID-19?

This dashboard summarizes business responses collected via the COVID-19 Business Impact Assessment distributed by the Birmingham Regional Economic Development Alliance. Some filter capabilities have been limited and categories have been aggregated to ensure data confidentiality.

Filter by Employer Size

All

Filter by Industry Type

All

Filter by Ownership Status

All

Filter by Location

All

262

Business respondents

81%

Small employers (<50)

11%

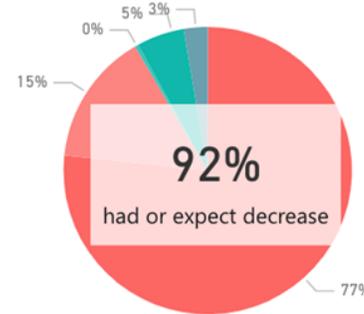
Midsize employers (50 - 250)

2%

Large employers (250+)

How have businesses been impacted?

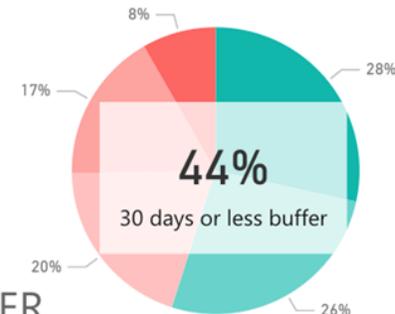
- Decrease
- Expect decrease
- Expect increase
- Increase
- No impact



OVERALL BUSINESS

How long can businesses go without new sales?

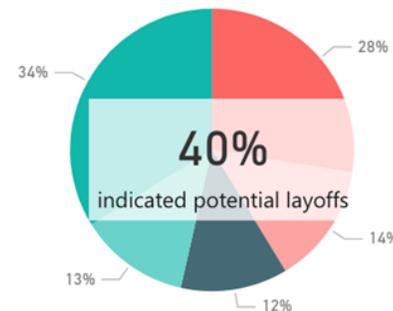
- Over 60 days
- 30 to 60 days
- 15 to 29 days
- 5 to 14 days
- Less than 5 days



CASH BUFFER

How likely are businesses to layoff employees?

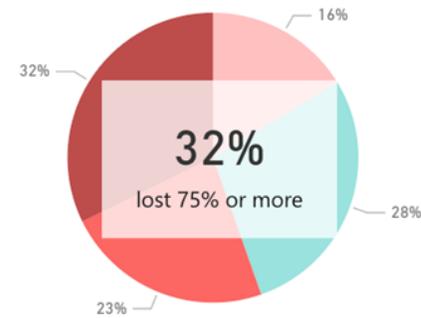
- Likely
- Somewhat likely
- Neither likely or unlikely
- Somewhat unlikely
- Unlikely



2,884 EST. LAYOFFS

What has the revenue impact for businesses been since March 1?

- 10 - 30%
- 10% or less
- 31 - 75%
- More than 75%



REVENUE

Birmingham Business Alliance



Jobless Claims in the Birmingham Region

Most recent data available for the week ending: **May 16, 2020**

This dashboard serves as an up-to-date source on jobless claims in the Birmingham region, including each of its seven counties and two major cities. This timely insight on how our workforce has been impacted can be used to inform the decision-making of our community leaders and policymakers. This dashboard updates on Thursday of each week. For further information on jobless claims across the state of Alabama, [you can visit Alabama Labor Market Information's website.](#)

Filter by location

All

Filter by week ending

3/14/2020

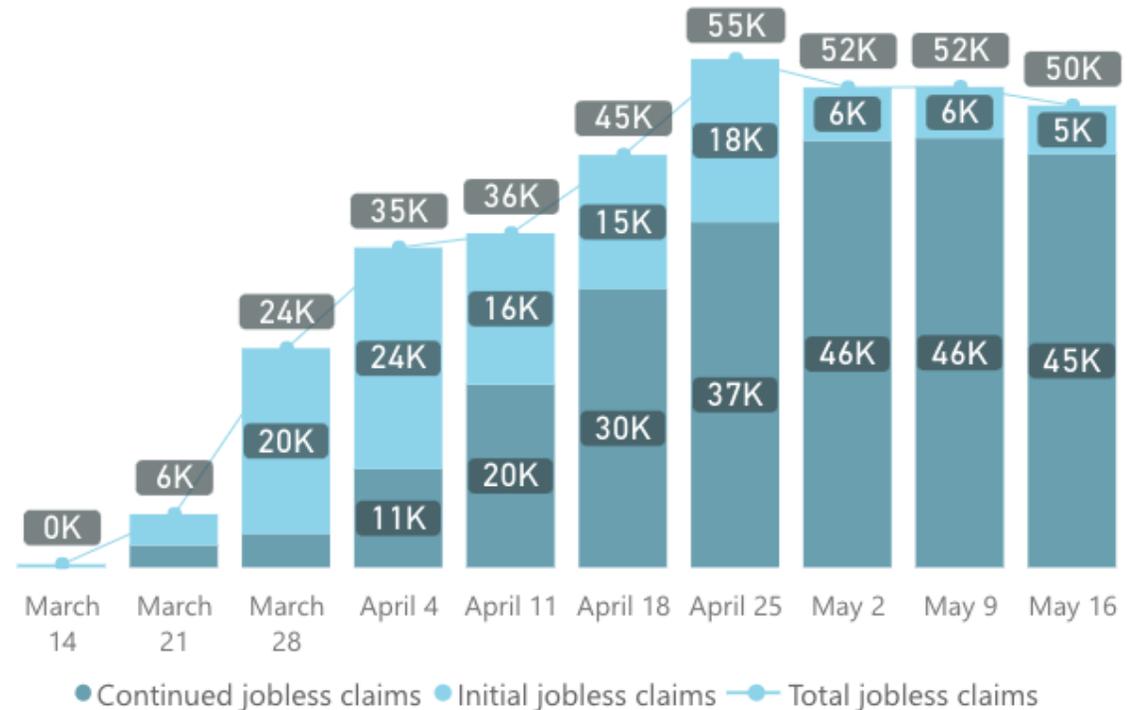
5/16/2020



Most recent jobless claims for the week ending: **May 16, 2020**

Jobless Claims by Week

50K Total jobless claims	-4% Change from previous week
5,271 Initial jobless claims	-5% Change from previous week
45K Continued jobless claims	-4% Change from previous week



Arrows indicate change between week of 3/31 and 4/7

How has COVID-19 affected your staffing capacity in the past 30 days?



How do you expect COVID-19 to affect your staffing capacity in the next 30 days?



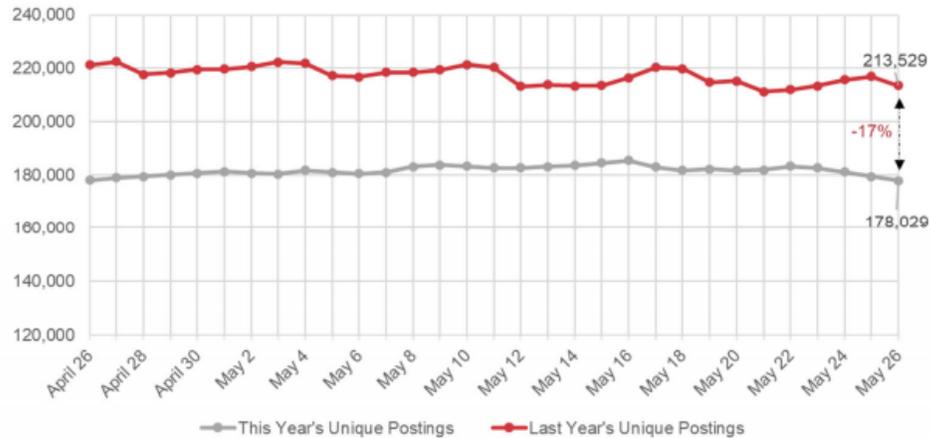
Charlotte Regional Business Alliance

LAYOFF ACTIVITY

Dallas Regional Chamber

New Job Postings

UNIQUE JOB POSTINGS TREND FOR THE DALLAS REGION:
PAST 30 DAYS VS. SAME PERIOD LAST YEAR



TOP 5 OCCUPATIONS IN THE DALLAS REGION BY
UNIQUE JOB POSTINGS IN THE LAST 30 DAYS



TOP 10 EMPLOYERS* IN THE
DALLAS REGION BY UNIQUE JOB
POSTINGS IN THE LAST 30 DAYS

Employer	Unique Postings
Wal-Mart, Inc.	1,661
The Home Depot	1,506
Texas Health Resources	1,498
Sonic Drive-In	1,319
Dollar General Corporation	1,311
The University of Texas Southwestern Medical Center	1,296
Chili's, Inc.	1,243
CVS Health Corporation	1,144
CRST International, Inc.	1,119
International Business Machines Corporation (IBM)	1,086

*Excludes staffing companies



Over the past 30 days, total daily job postings have plummeted compared with the same timeframe last year, consistently running 14%-19% lower in 2020.

Despite the enormous volume of reduced work hours, furloughs, and permanent layoffs due to COVID-19, a few industries are hiring for in-demand occupations.

The health care and retail industries continue to dominate the list of employers with the most unique job postings in the past 30 days. In terms of job posting growth rate in the past 30 days, retail, and food and beverage establishments currently make up half of the top 10, while four on-demand delivery and trucking companies are on the list.

The top five in-demand occupations appear to align with industry pandemic responses. However, these same occupations comprise the top five in-demand occupations during the past year, as well.

Dallas Regional Chamber

Essential Workers

ESSENTIAL WORKERS AS A PERCENT OF TOTAL WORKERS* BY RELEVANT GEOGRAPHY

Geography	Total Workers	Essential Workers	% Essential
Dallas city	1,040,181	701,626	67.5%
Collin County	475,840	330,287	69.4%
Dallas County	1,877,979	1,304,669	69.5%
Denton County	291,814	205,305	70.4%
Tarrant County	1,017,150	720,471	70.8%
Dallas Region	3,955,747	2,776,522	70.2%
State	14,054,381	9,955,643	70.8%
U.S.	164,699,638	114,961,787	69.8%

*Includes self-employed

TOP 5 OCCUPATIONS WITH ESSENTIAL WORKERS IN THE DALLAS REGION

	Office Clerks	103,281
	Customer Service Reps	96,038
	Laborers	84,166
	Cashiers	68,281
	Truck Drivers	66,079



More than 470 of the nearly 900 occupations monitored by the Bureau of Labor Statistics have been identified as 'essential' for certain industry sectors by the Cybersecurity & Infrastructure Security Agency (CISA) for reporting to work during the COVID-19 pandemic response.

For the Dallas Region, 70% of workers – or 2.8M jobs – fall into the essential category; primarily in office and administrative support; transportation and material moving; food preparation and service; and sales and related occupations.

This is on par with essential workforce designations in Texas (71%) and across the U.S. (70%).

For more, see LMI Institute "Critical Occupations"

Data Frequency: Quarterly

JobsOhio

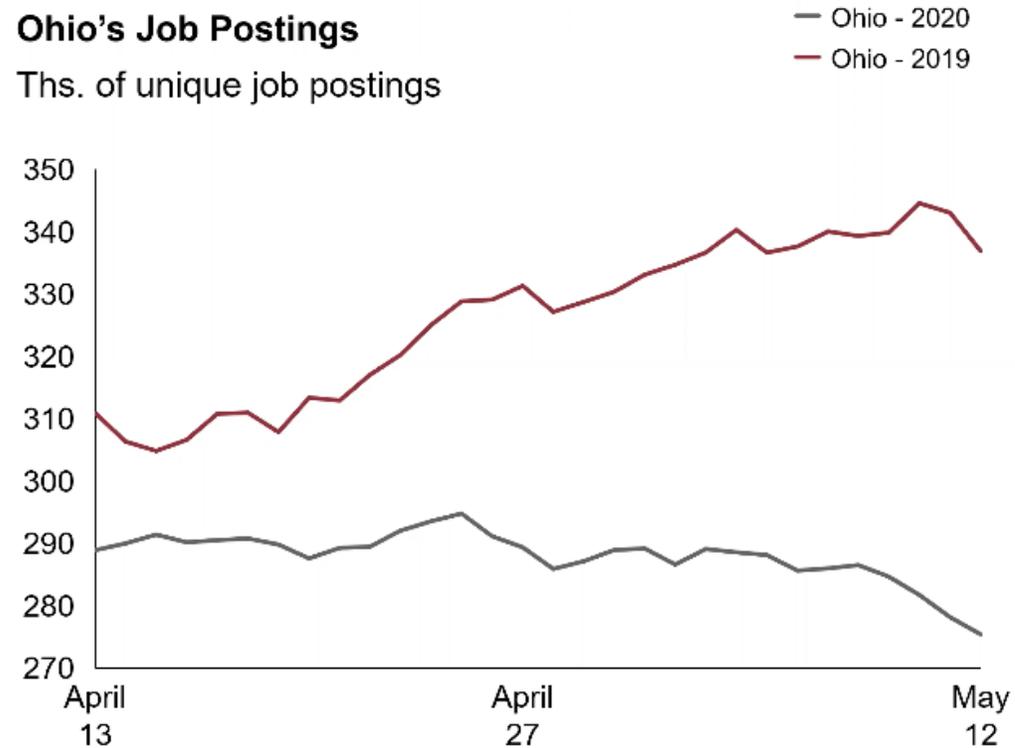
While Ohio's job postings have decreased from last year, the State's job postings have not fallen as far as peers



CURRENT AS OF MAY 14, 2020

Ohio's Job Postings

Ths. of unique job postings



Geography	April 13, 2020 – Pct Change ¹	May 12, 2020 – Pct Change ¹
Ohio	-7.0%	-18.3%
USA	-10.3%	-22.3%
Regional Peers ²	-13.4%	-26.4%
Aspirational Peers ³	-13.0%	-23.7%

1. Timeline: comparing postings to same day in 2019
 2. Regional peers include: Illinois, Indiana, Kentucky, Michigan, Pennsylvania, and Wisconsin
 3. Aspirational peers include: California, Florida, New Jersey, North Carolina, and Texas

Source: Emsi

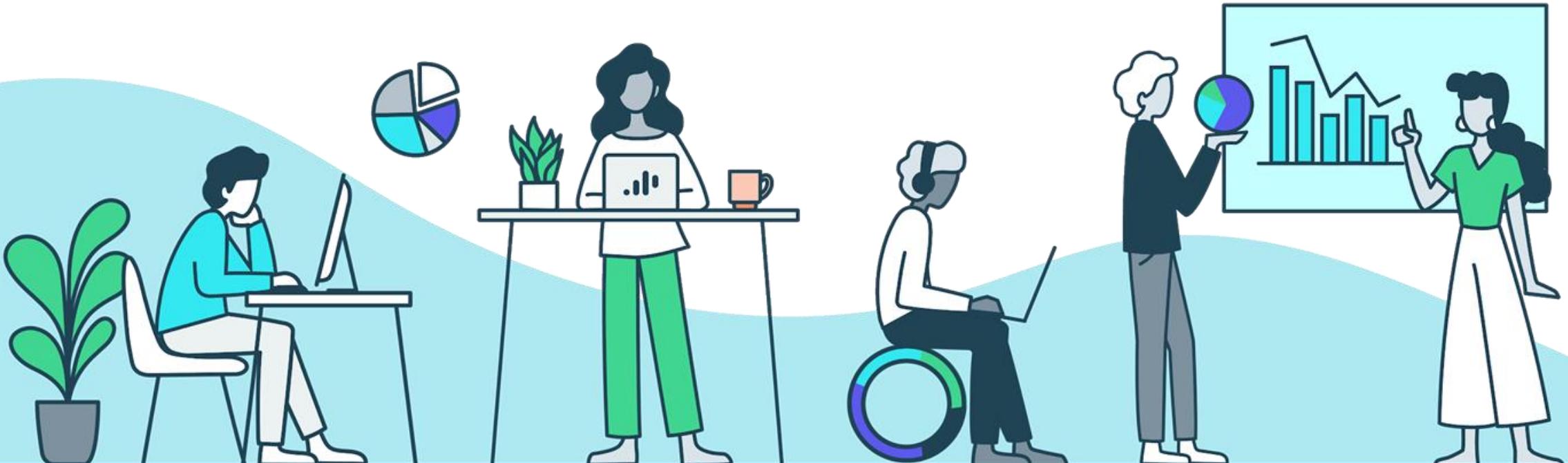
Making meaning of real-time data

Noise, Limitations, and Context



Real-time data limitations

- Requires consistent monitoring
- Quality control
- Like all data, is only as good as the analysis



Skills data: added context to LMI

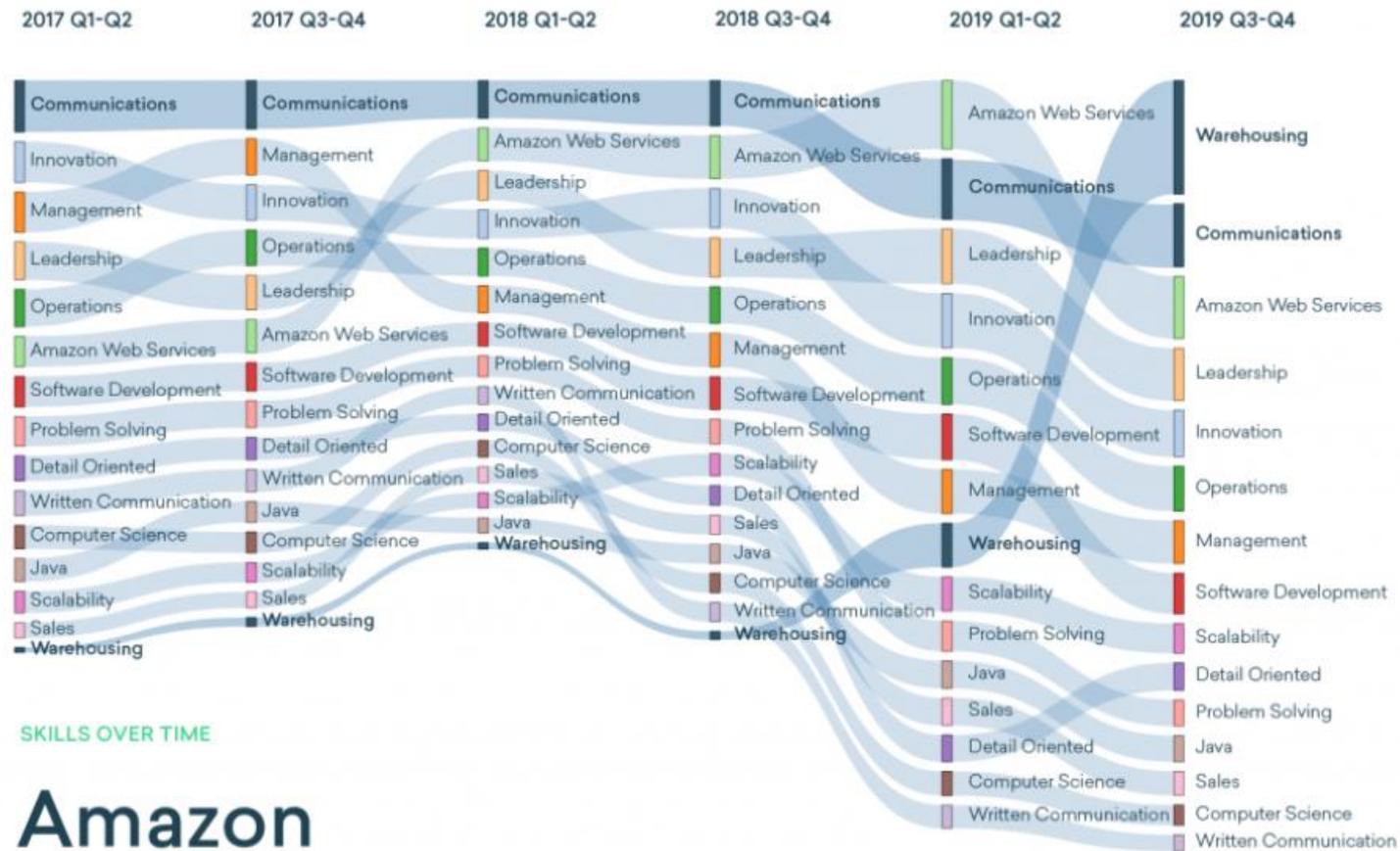
- Sourced from job postings and professional profiles
- Real time emergence of supply and demand
- More actionable and timely information on gaps and opportunities

Demand v Supply



Skills by company powerful for BR&E

The top 10 skills you need to work at Amazon in 2020



SKILLS OVER TIME

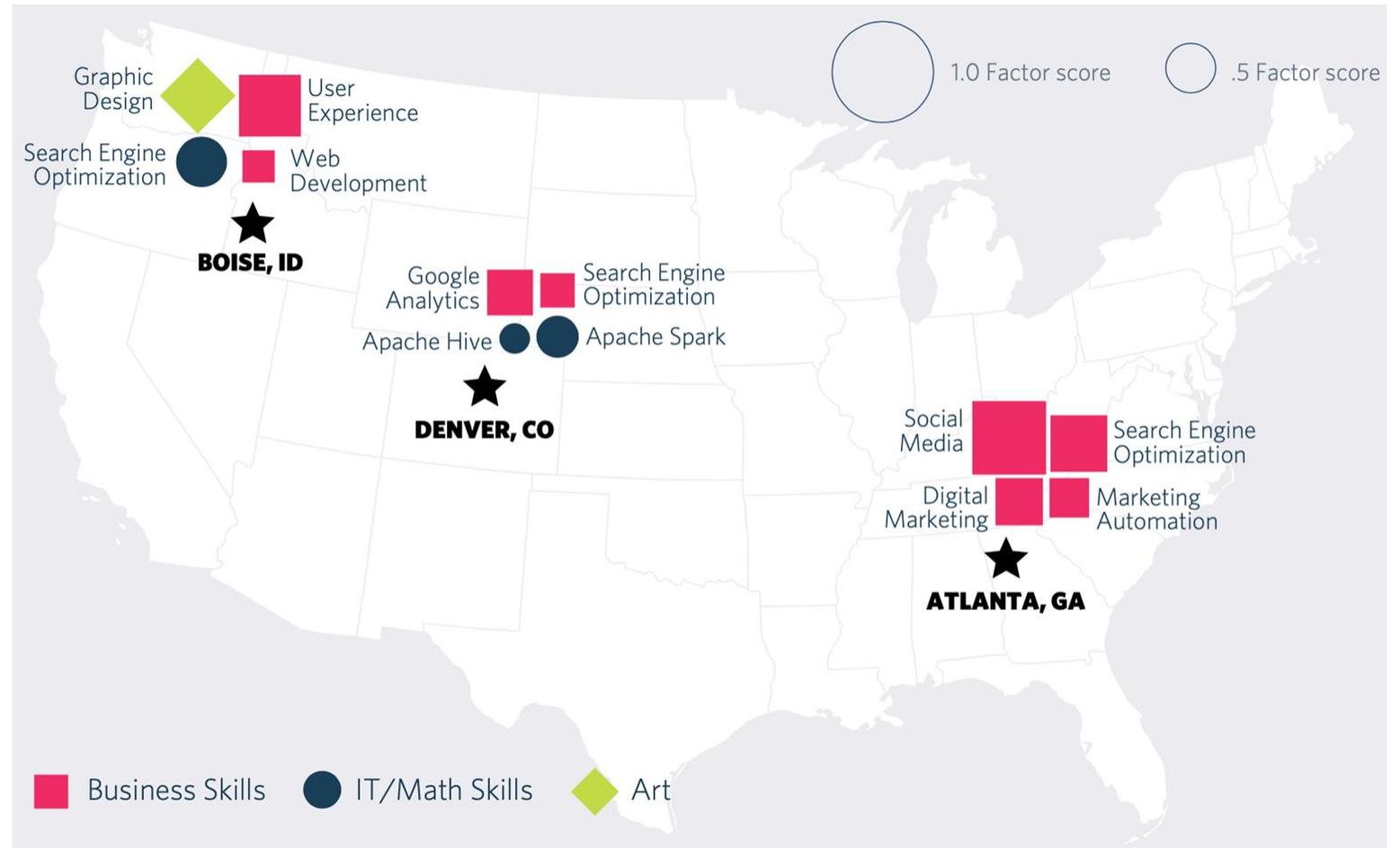
Amazon

.i Emsi job posting data

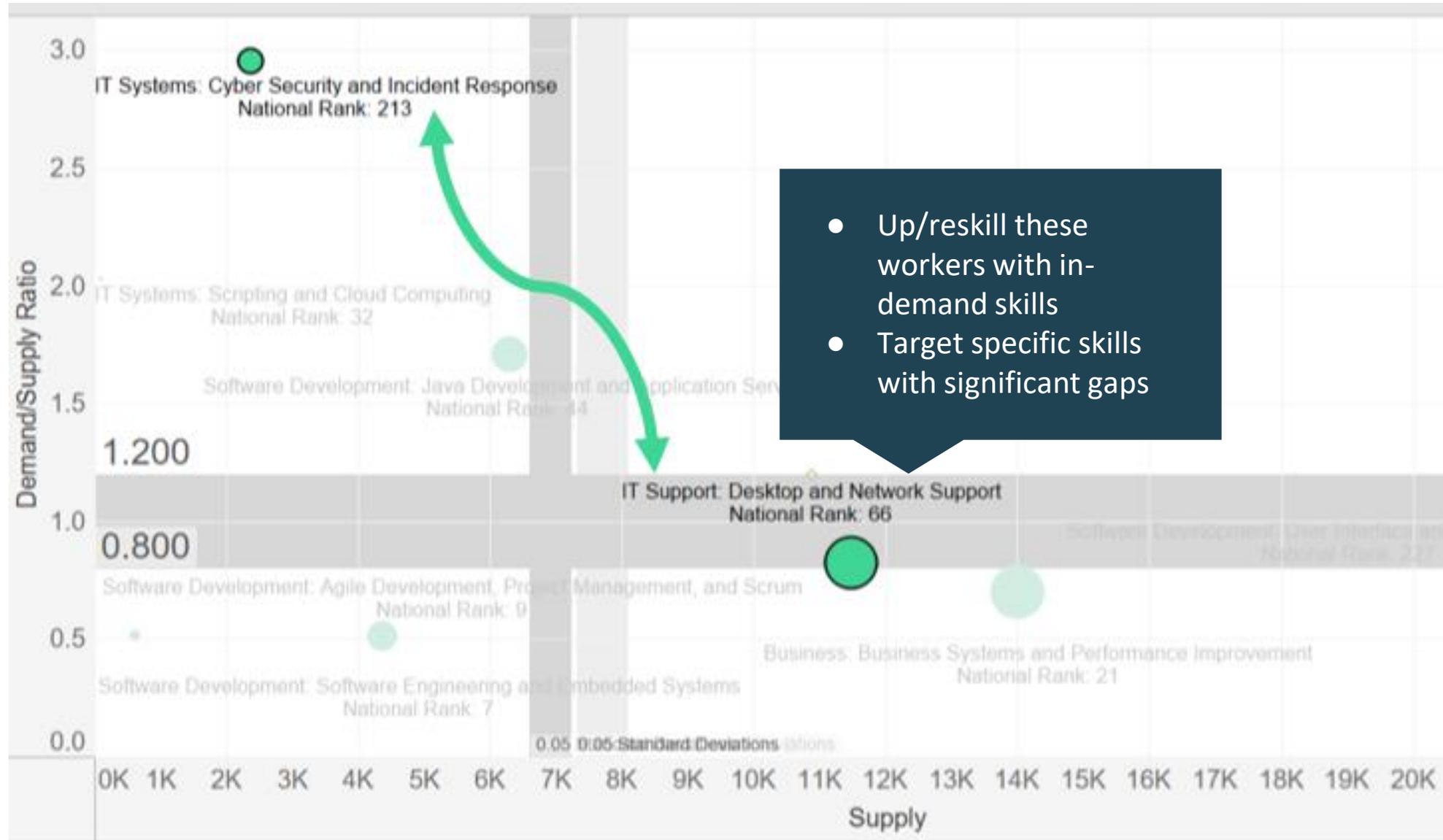


Skills also add regional context

- Traditional LMI defines an economy, skills give context and nuance
- Reveals dynamics that make regions unique
- Differentiates community for better marketing



Skills + LMI = nuanced strategies



Emsi Resources

economicmodeling.com/covid-19-resources



Job Posting Dashboard

REGION

United States

INDUSTRY

Search...

OCCUPATION

Search...

COMPANY

Search...

JOB TITLE

Search...

SKILLS

Search...

REMOTE JOBS

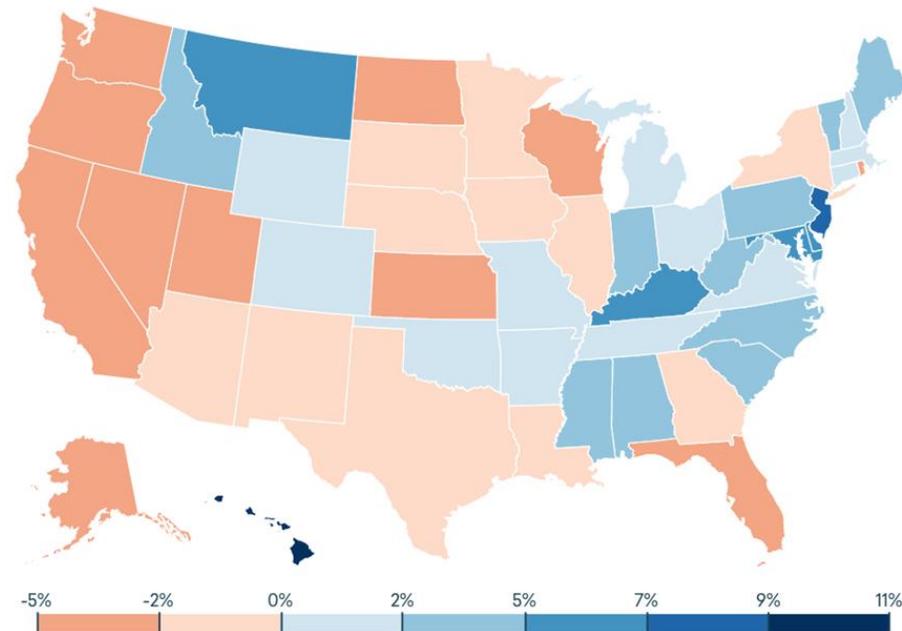
Limit to remote-friendly jobs

10,373,955 postings

0.1% month over month

-25% from last year

Map: % Change month over month



COVID-19 Free Resources



Skills Match

Tell us about the skills you've acquired, and we'll match you to opportunities.

[FILL YOUR SKILL GAPS](#)

 **Emsi**

Resume Optimizer

Improve Your Resume
for That New Job



Regional Impact Reports



REGIONAL IMPACT REPORT

How is COVID-19 impacting your economy?

Get a free, custom report to inform decision-making in uncertain times.

Regional Impact Reports

Hot Skills			Resilient Skills			Cold Skills		
Skill	#	Change	Skill	#	Change	Skill	#	Change
Management	61	42.96%	Customer Service	1092	30.05%	Communications	16	31.37%
Communications	52	36.62%	Communications	1090	29.99%	Sales	7	13.73%
Customer Service	29	20.42%	Sales	954	26.25%	Selling Techniques	7	13.73%
Operations	28	19.72%	Management	902	24.82%	Teamwork	7	13.73%
Problem Solving	27	19.01%	Merchandising	619	17.03%	Balancing (Ledger/Billing)	6	11.76%
Valid Driver's License	27	19.01%	Leadership	584	16.07%	Customer Service	6	11.76%
Leadership	26	18.31%	Operations	553	15.22%	Management	6	11.76%
Microsoft Excel	25	17.61%	Valid Driver's License	432	11.89%	Operations	6	11.76%
Coordinating	19	13.38%	Presentations	359	9.88%	Cash Register	5	9.80%
Research	19	13.38%	Detail Oriented	338	9.30%	Leadership	4	7.84%

Thank You

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