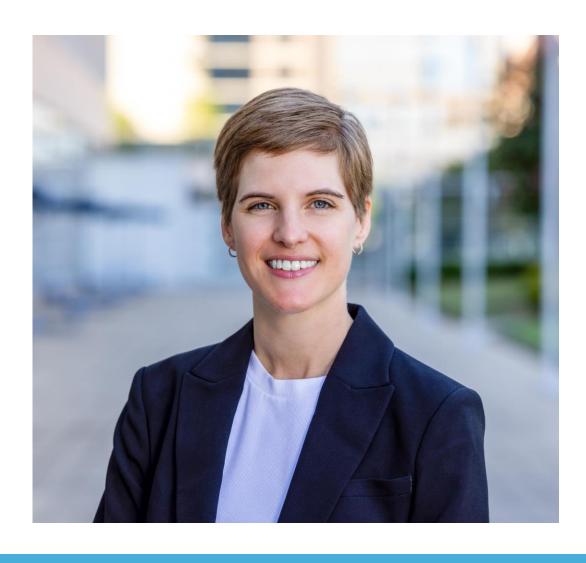
# **Short-term Credentials in the Labor Market**

Anna Crockett
Community Development
November 13, 2025



The views expressed are my own and do not necessarily reflect official positions of the Federal Reserve System.

#### Introduction



- Senior advisor in Community Development
- Based in Houston
- At the Dallas Fed since 2018
- Areas of expertise:
  - Artificial intelligence
  - Opportunity youth

#### **Overview**

#### Background

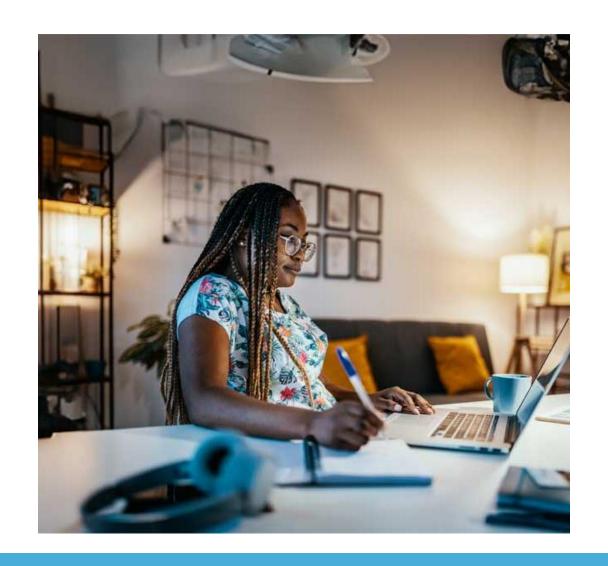
- What are short-term credentials?
- State of higher education
- Texas context

**Research Questions** 

**Data Source** 

Results

Q&A



# Background

#### What Are Short-term Credentials?



#### **Our definition**

A credential or award you receive after completing a program that requires less than 2 years of study



# Examples of short-term credentials

- Licenses (ex. teacher's or nurse's license)
- Certification (ex. forklift driving; food safety)
- Certificate (ex. business analytics badge)

## **State of Higher Education**

- It's still true that "the more you learn, the more you earn"
- Recent trends in higher education present challenges:
  - Rising costs and increased student debt
  - Fluctuations in enrollment during and after pandemic
  - Changes in public's perception about college and its value
- Researchers and policymakers alike have expressed concern about these trends
- One potential solution? Short-term credentials

#### **Texas Context: House Bill 8**

- Passed during 2023 legislative session; went into effect September 2023
- Prior to HB8, state funding was enrollment-based
  - Now under HB8, state funding is outcome-based
- Outcomes included transfers, degrees conferred, or credentials awarded
- This explicit reward for certificates and credentials awarded is new and unchartered territory

#### What We Already Know

Short-term credentials are understudied compared with postsecondary degrees

Short-term credentials are hard to study; evidence has been mixed

#### What We Want to Know

 One of the most important factors in determining value of STC's is employers' perceptions of them

#### Our research questions:

- How often do employers seek job candidates with STC's?
- If and when they do, do employers pay credential holders higher wages than they otherwise would have received?

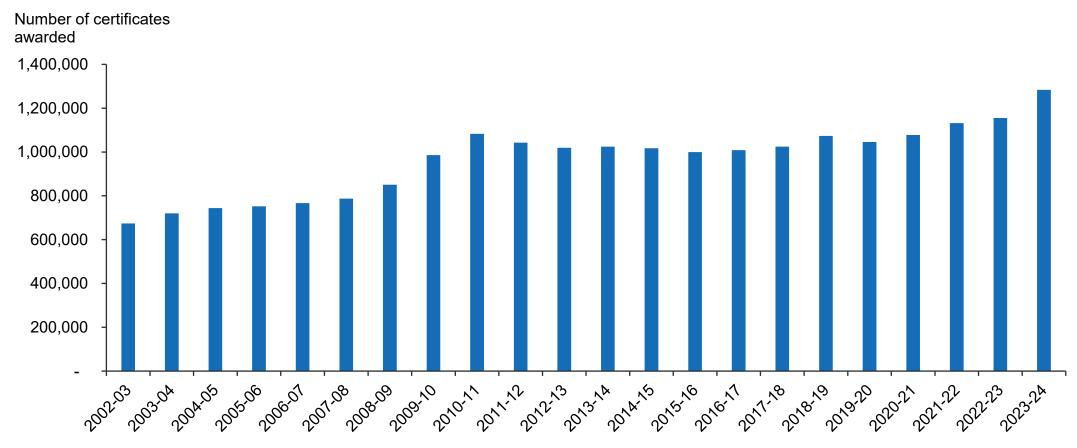
## **Data Source**

## **Lightcast Job Posting Data**

- Bots scrape internet job postings from more than 65,000 sources daily, including job boards, company websites, and other sources
- Dataset includes information on
  - Job titles and responsibilities
  - Job requirements/preferences
    - Degrees (bachelor's, associate, high school)
    - Certification
  - Advertised salary
- All results are based on U.S. data

# Results: Supply & Demand

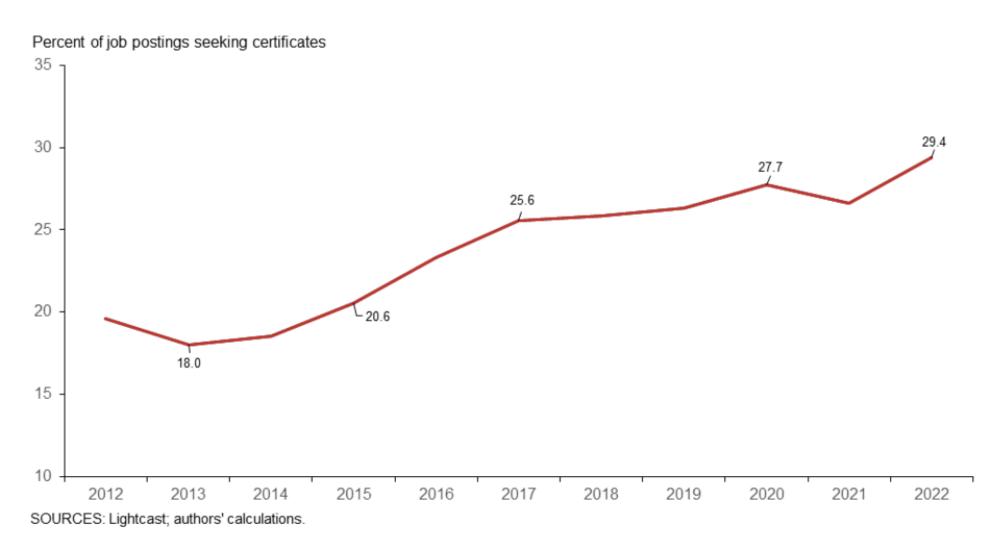
#### Growing number of certificates granted by higher education



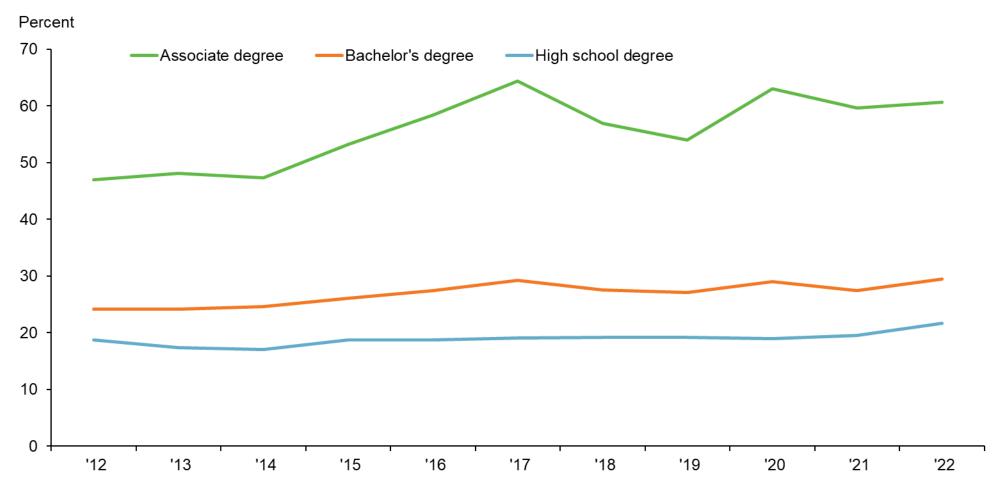
NOTE: Data collected from Title IV institutions in the United States.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), Completions component final data (2002-03 to 2022-23) and provisional data (2023-24).

## More Job Postings Seek Certificates



## Jobs Requiring Associate Degree Most Likely to Seek Certification

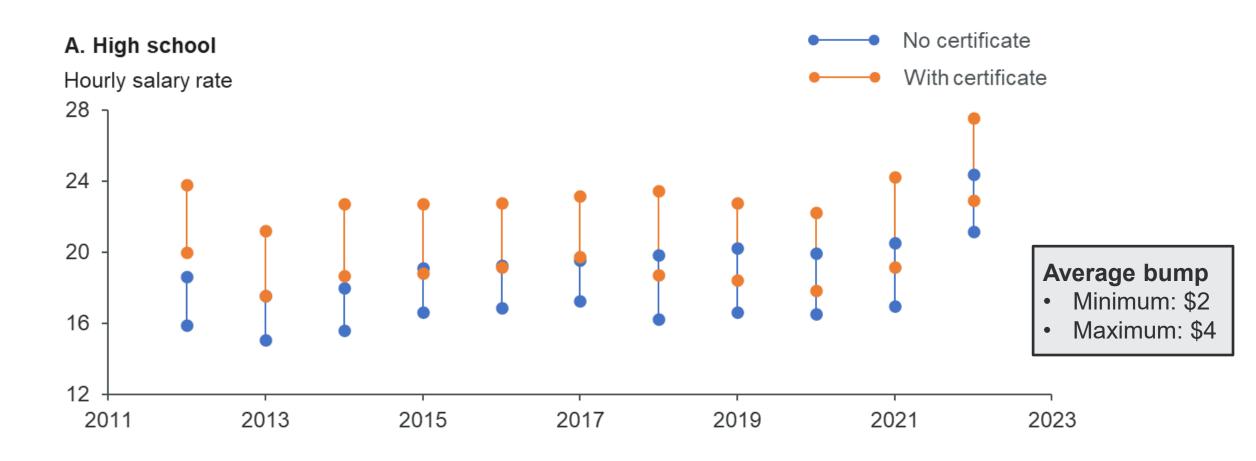


NOTE: Data show the percentage of jobs that require certain degrees and also ask for certifications. SOURCES: Lightcast; authors' calculations.

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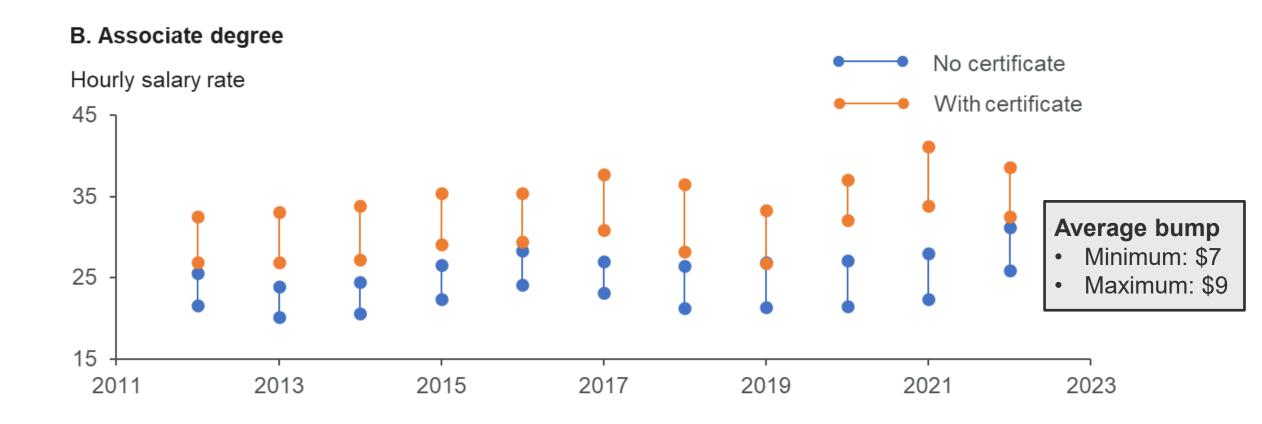
# Results: Wages

#### Wages Offered in Ads Seeking High School Degrees



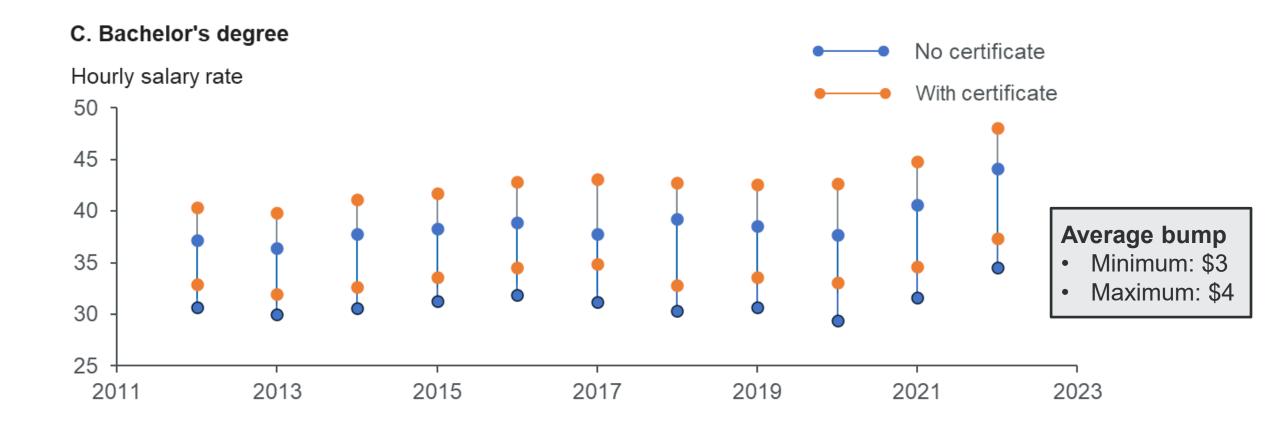
SOURCES: Lightcast; authors' calculations.

#### Wages Offered in Ads Seeking Associate Degrees



SOURCES: Lightcast; authors' calculations.

#### Wages Offered in Ads Seeking Bachelor's Degrees



SOURCES: Lightcast; authors' calculations.

## **Comparison with Census Data**

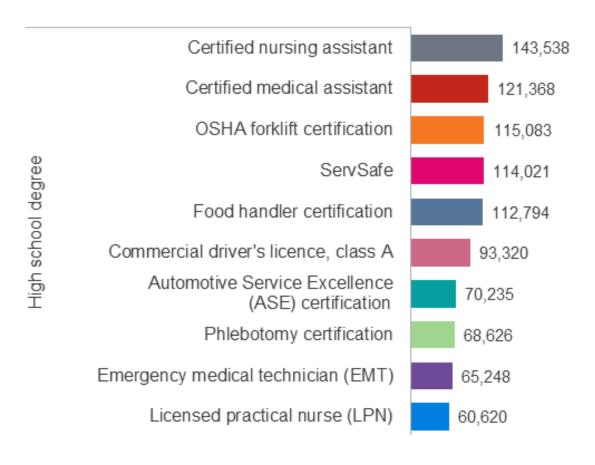
- Wage gap could be due to differences in skills and experience
  - Some certifications are only available after years on the job
- We used Census data to address this
  - Controlled for age, gender, race and ethnicity, marital status, education, and years of experience
- Average annual wage difference for credential holders:
  - \$5,000 more for both associate and high school degree holders
  - \$2,600 more for bachelor's degree holders
- Conclusion: Credential wage bump does exist

# Results: Occupational Highlights

## **Identifying Credentials of Value**

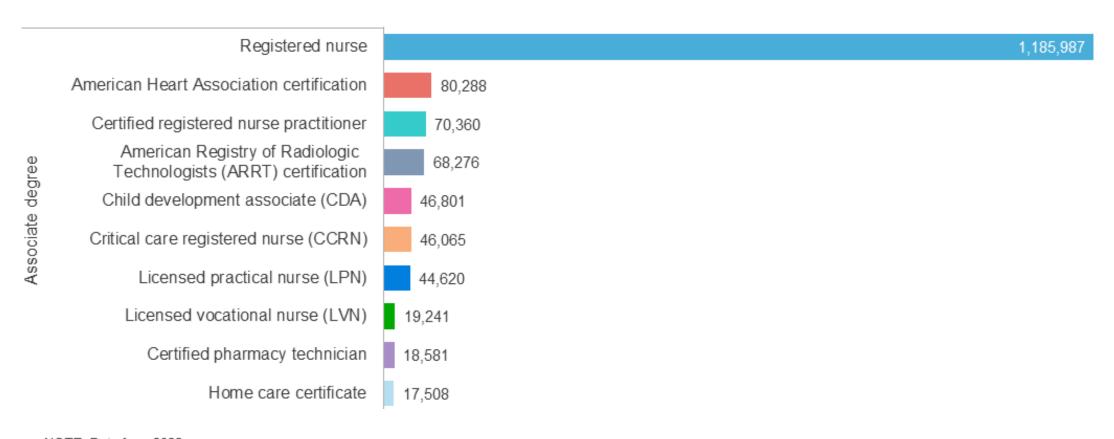
- What we know:
  - Employer demand for short-term credentials is rising
  - Credentials are, on average, associated with higher wage offers
    - Especially for those without four-year degrees
- But which credentials should students pursue?
  - More information is needed about which provide the most value
- To start: which certifications do employers ask for most often?

## Top credentials sought by employers: High school degree



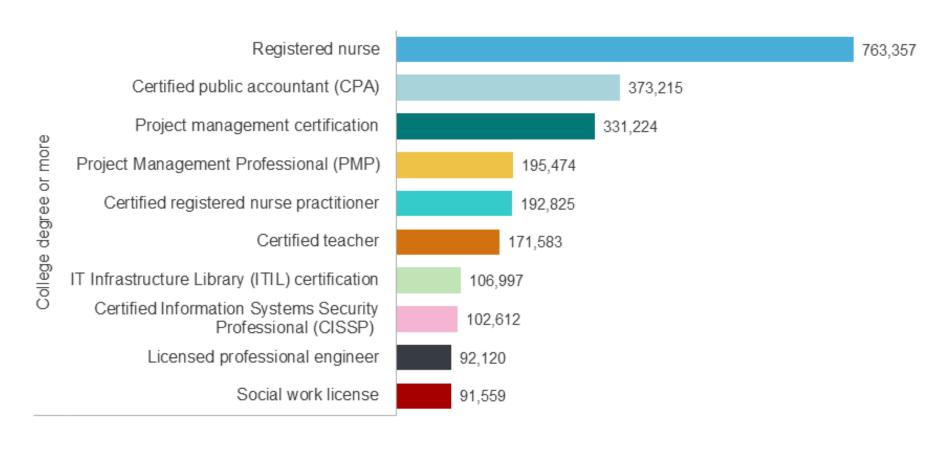
NOTE: Data from 2022. SOURCE: Lightcast.

# Top credentials sought by employers: Associate degree



NOTE: Data from 2022. SOURCE: Lightcast.

## Top credentials sought by employers: Bachelor's degree

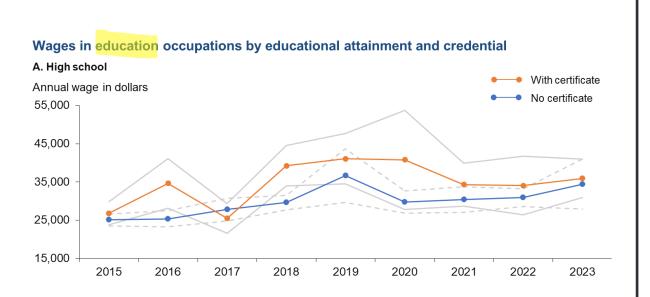


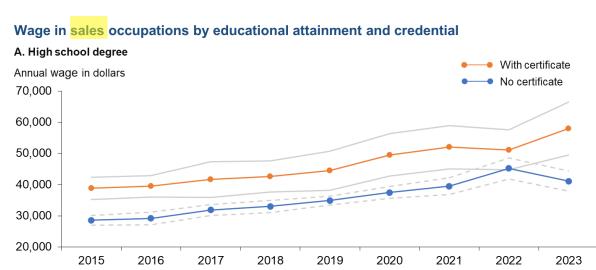
NOTE: Data from 2022. SOURCE: Lightcast.

## High demand, big payoff?

- Credentials related to healthcare are most sought after
  - But higher demand does not automatically mean a bigger payoff
- We used Census data to analyze the wage gap between those with and without credentials in 12 occupational groups
  - Continue to break out workers into educational attainment groups
- Result: it's almost impossible to identify clear "winner"
- Two groups demonstrate just how complex this question is
  - Education and sales

## High school degree: with or without credential

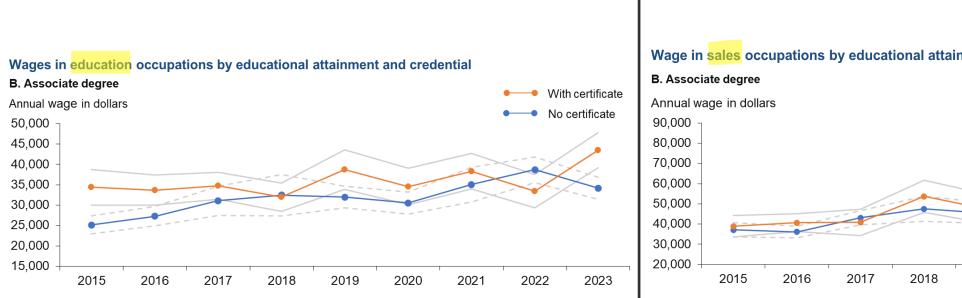


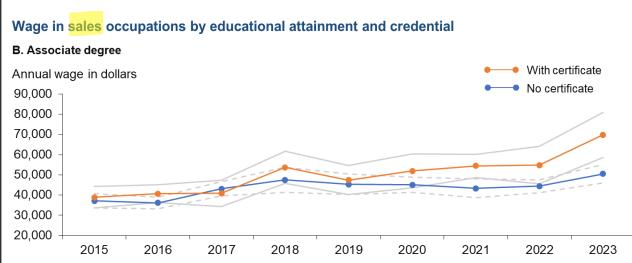


NOTES: Solid gray lines indicate 90-percent confidence interval for the with-certificate trendlines. Dashed gray lines indicate 90-percent confidence interval for the no-certificate trendlines.

SOURCES: IPUMS CPS ASEC; authors' calculations.

## Associate degree: with or without credential

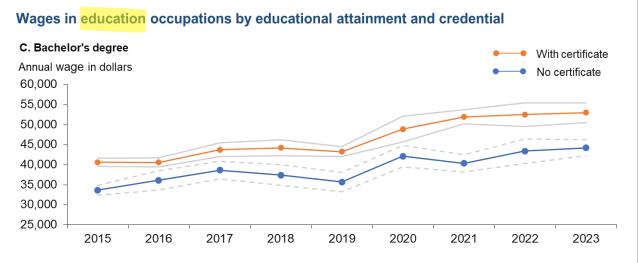


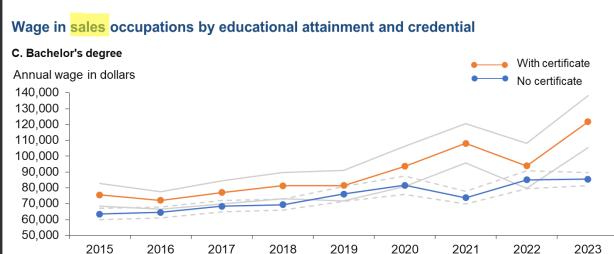


NOTES: Solid gray lines indicate 90-percent confidence interval for the with-certificate trendlines. Dashed gray lines indicate 90-percent confidence interval for the no-certificate trendlines.

SOURCES: IPUMS CPS ASEC; authors' calculations.

#### Bachelor's degree: with or without credential





NOTES: Solid gray lines indicate 90-percent confidence interval for the with-certificate trendlines. Dashed gray lines indicate 90-percent confidence interval for the no-certificate trendlines.

SOURCES: IPUMS CPS ASEC; authors' calculations.

## The Bottom Line? It's Complicated

- It is extremely important to acknowledge the nuance within shortterm credentials
  - Whether they provide a boost in wages
  - Whether these boosts are available to workers of all educational levels
- With the available data, it's not always clear that short-term credentials give a job applicant an advantage
- For these reasons, it is important to tailor programs to individual needs of local workforce and local demand for certain occupations

#### Read More at Dallasfed.org



Short-term credentials meet growing interest among students, employers

Anna Crockett, Emily Ryder Perlmeter and Xiaohan Zhang

March 06, 2024



Job seekers with associate degrees likely to benefit from short-term credentials

Anna Crockett, Emily Ryder Perlmeter and Xiaohan Zhang May 08, 2024



How valuable is a short-term credential for a job seeker? It's complicated

Anna Crockett, Emily Ryder Perlmeter and Xiaohan Zhang

August 09, 2024

## **Recent and Upcoming Work**

How might artificial intelligence affect Texas' good jobs?

Released November 2025

Observations from focus groups with young adults on career pathways

Upcoming (Late 2025/Early 2026)

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