

# LABOR MARKET INFORMATION FOR CTE

10.02.2024 | HENRY FIELDS, JASON PAYTON

## OUR MISSION TO SUPPORT OREGON

The Oregon Employment Department's Workforce and Economic Research Division has the mission of providing Oregonians quality labor market information so that they can make informed decisions.

- Conduct surveys on behalf of the U.S. Bureau of Labor Statistics.
- Publish local statistics, including local and state unemployment rates, current employment trends, and wage estimates for hundreds of occupations.
- Provide regional forecasts by developing 10-year industry and occupational employment projections.
- Provide regional subject matter experts to provide context and background.

**Unemployment Rate** - August 2024

**4.0%**

Seasonally Adjusted



0.1%

**Total Unemployed** - August 2024

**87,746**

Seasonally Adjusted



-1,367

**Nonfarm Employment** - August 2024

**1,999,000**

Seasonally Adjusted



1,500

**Job Vacancies** - 2nd Quarter 2024

**57,686**



-4.0%

# QUALITYINFO.ORG IS YOUR SOURCE OF OREGON LABOR MARKET INFORMATION

Data resources we publish for Oregon can be found at our flagship website, [www.QualityInfo.org](http://www.QualityInfo.org). The website has a number of tools, original articles, and reports that dive into the nature of Oregon's workforce.

There are several resources that can be especially relevant for CTE.

The [Career Explorer Tool](#) provides a quick summary of hundreds of local careers. The tool allows you to sort, and filter on whether a career meets the definition of high-wage, high-demand, STEM, and much more.

The [Occupation Profile Tool](#) will let you dive into a much deeper analysis of a particular career.



- Home
- Tools
- Regional Info
- Data
- Publications
- Press Release

## OUR LATEST RESEARCH



### Sweat and Sunshine, A Farmer's Recipe – 2022 Census of Agriculture for Oregon

Jeff McAllister Sep 13

The sun peeks over the horizon. Wheat stalks rustle gently with the wind as the rooster crows, a familiar call signaling the beginning of the day's w...

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- Sep 5  
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- Aug 29  
[Oregon's Union Membership](#)

## OREGON ECONOMIC INDICATORS

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Seasonally Adjusted			
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## JOB & CAREER SEARCH

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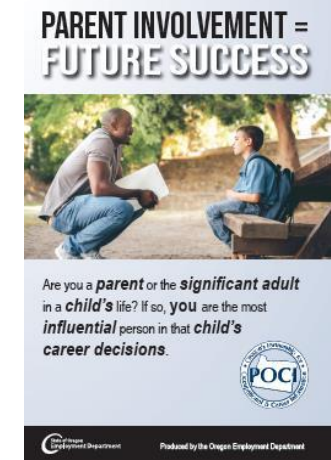
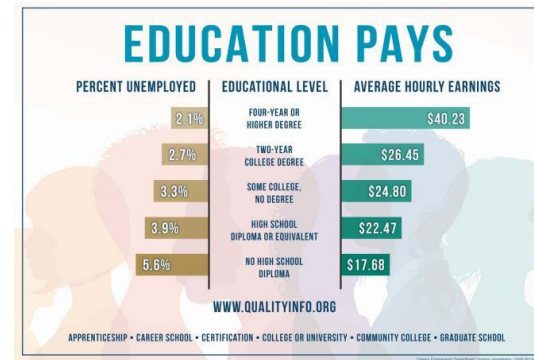
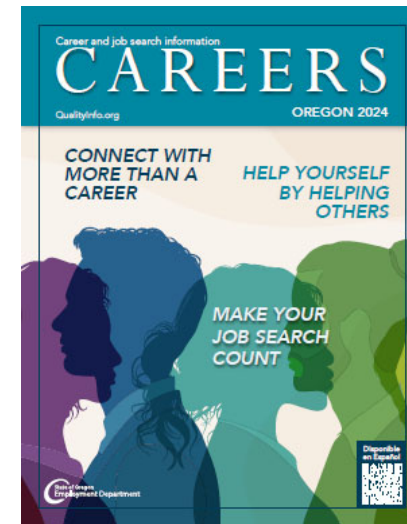
## WE ALSO PRODUCE PRINTED RESOURCES FOR A WIDE RANGE OF AUDIENCES

To widen the reach of labor market information we also produce printed resources to share with students and jobseekers.

To order hard copies of these resources you may go to our [publication order form](#). All printed resources are a free resource for the public.

You can also keep up with all local press releases, and economic information as it comes out by signing up to our [subscription service](#).

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# COMMON GOAL, COMMON LANGUAGE

Resources for CTE

## ALL THIS INFORMATION CAN BE OVERWHELMING

With our local economies being complex and containing a cornucopia of different jobs, it can be hard to know where to best focus the limited resources and programs tied to Career Technical Education.

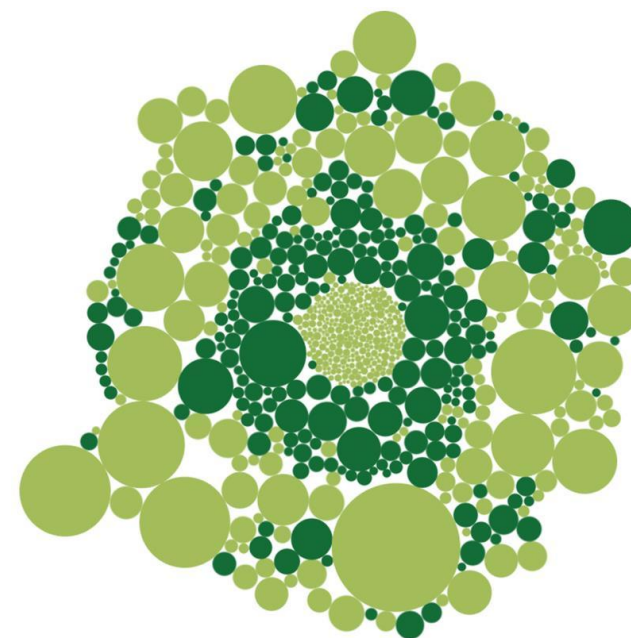
Part of the process to identify future CTE programs includes identifying how a program ties to careers that are in-demand, promote self-sufficiency, and support local industries.

In addition to basic labor market information, the Research Division also produce ways to categorize these careers in ways that can help focus our attention on careers and pathways that meet these program goals.

Let's take a look at what it means for a career to be high-demand, high-wage, and what it takes for workers to qualify for a particular job.

# 29,500

Distinct Job Titles Tracked  
by U.S. Census Bureau



## EXAMPLE: FINDING CAREERS TIED TO INDUSTRIAL AND ENGINEERING SYSTEMS

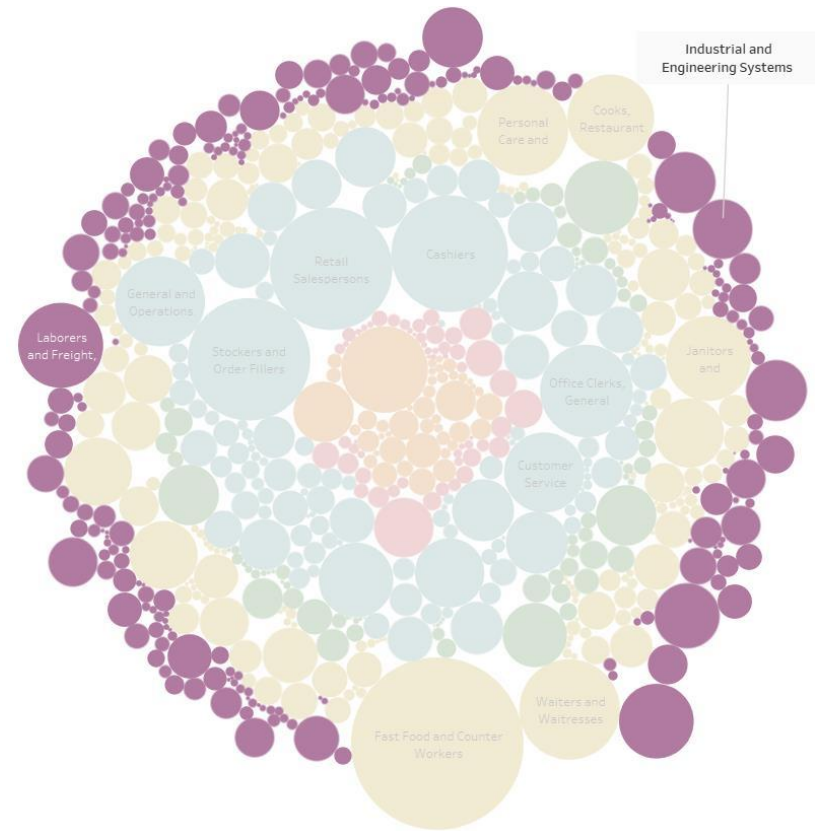
Let's say I want to Identify careers that could be supported by a CTE program in Industrial and Engineering System.

### 308 Distinct Occupations

Tied to the Industrial Career Learning Area

Simply getting a list of occupations can help narrow our focus, but rarely will it be all we need to get to an data-focused decision.

By using additional conditions, we can narrow down this list significantly.



## WHAT IS IN A DEFINITION

A **High-Wage Occupation** is an occupation with a median wage that is higher than the median wage for all occupations in a given area. The determination of High-Wage is specific to the area being looked at.

If we apply the condition of high-wage, we narrow the list of industrial-related occupations to **179** occupations.

A **High-Demand Occupation** is an occupations having more than the median number of total (growth plus replacement) openings statewide, or a particular area. The determination of High-demand is specific to the area being looked at.

If we apply the condition of high-wage, we narrow the list of industrial-related occupations to **116** occupations.

**\$49,400**

Median Wage for Oregon  
Jobs in 2023

**96%**

Job Openings tied to High-  
Demand Occupations



## FAMILIAR STORIES APPEAR WHEN WE CONTINUE TO APPLY THESE CONDITIONS

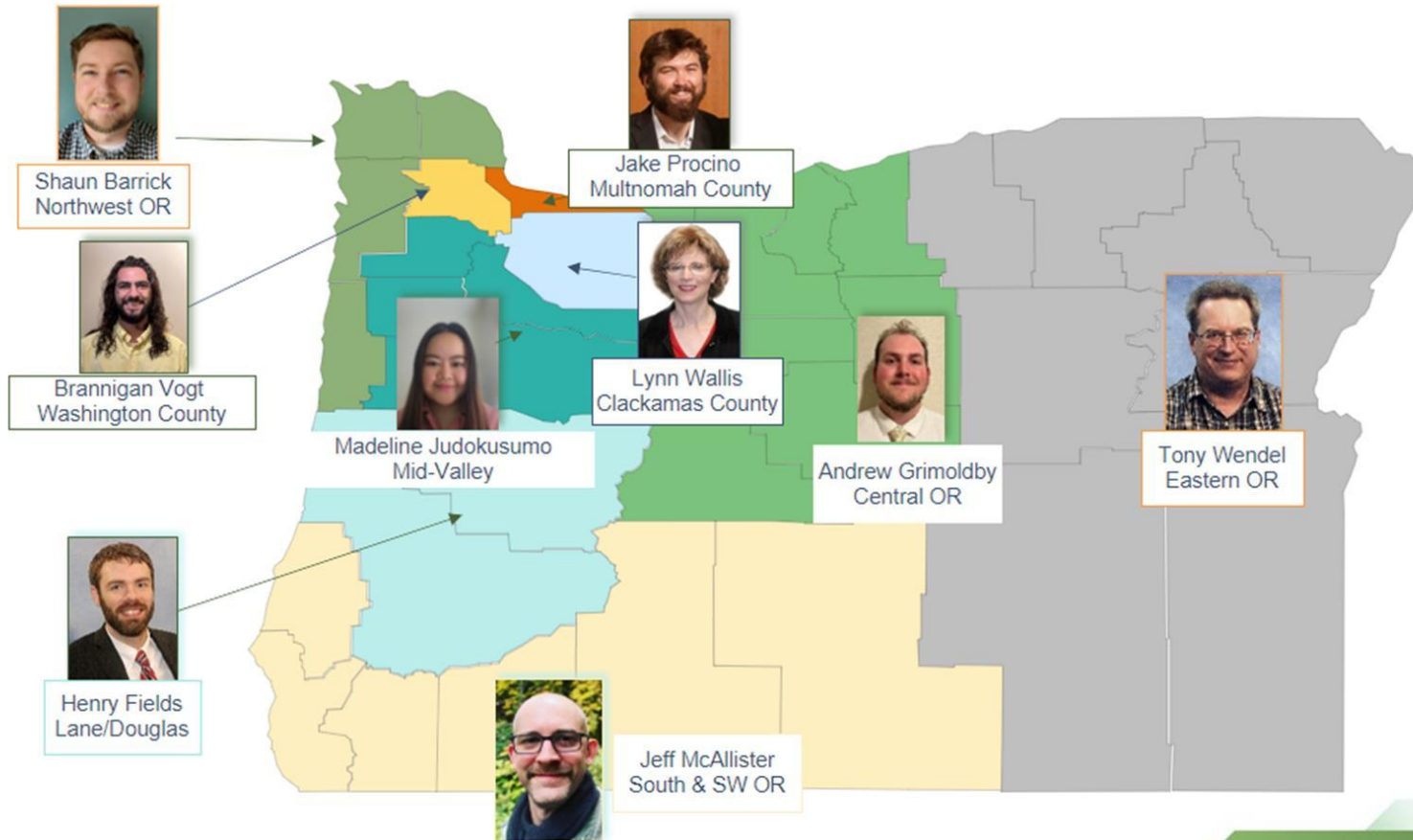


If we apply the condition of high-wage and high-demand to our analysis we narrow the list of industrial-related occupations to **66** occupations.

Finally, if we then apply the expectation that someone only needs up to an Associate's degree to work in career, we can narrow this list down to **52** occupations.

Let's work through a few real-world examples where Workforce Analysts have provided a more local focus.

# WORKFORCE ANALYSTS FOR 9 REGIONS OF OREGON



# EXAMPLE QUESTIONS

## CASE STUDY 1 – GIVE ME THE BIG PICTURE

### **Subject: Cottage Grove CTE pathways**

Quick review of what we're looking for:

- Career cluster (what kinds of jobs are available in these sectors?)
- Salary/pay range for those jobs
- Local/regional employers. We want to connect these programs with employers, so they have to be nearby
- Key skills needed for those jobs

Here are the CTE pathways identified:

- Business
- Food and Beverage – Culinary, management
- Creative services – graphic design
- Computer science – web design, basic coding
- Manufacturing – fabrication, design
- Construction
- Health Occupations
- Early Childhood development

## CASE STUDY 1 – GIVE ME THE BIG PICTURE

### Business

SOC	Occupation
11-1021	General and Operations Managers
11-3121	Human Resources Managers
13-1021	Buyers and Purchasing Agents
13-1071	Human Resources Specialists
13-1199	Project Management Specialists and Business Operations Specialists, All Other
13-2011	Accountants and Auditors
13-2082	Tax Preparers
15-2031	Operations Research Analysts
41-1011	First-Line Supervisors of Retail Sales Workers
43-3031	Bookkeeping, Accounting, and Auditing Clerks

### Food and Beverage – Culinary, management

SOC	Occupation
11-9051	Food Service Managers
13-1121	Meeting, Convention, and Event Planners
19-4011	Agricultural and Food Science Technicians
35-1011	Chefs and Head Cooks
35-1012	First-Line Supervisors of Food Preparation and Serving Workers
35-2021	Food Preparation Workers
35-3031	Waiters and Waitresses
51-3011	Bakers
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders
51-3093	Food Cooking Machine Operators and Tenders

## How to find more data on occupations

For occupational wages, employment growth, job listings, and work skills and activities use Qualityinfo.org's Occupational Profiles Report (link below).

### [Occupational Profiles Report](#)

- Enter either the Occupation Title or SOC into the search bar on that page.
- "Expand all" to view all levels of data, or select a particular category
- Select the globe on the floating menu to the right to look at specific areas of Oregon, including Lane.

## CASE STUDY 1 – GIVE ME THE BIG PICTURE

### Employer lookup tools

	UI Tax Records	Data Axle
<b>All Employers in Cottage Grove</b>	<u>392</u>	<u>578</u>
Professional Services	<u>23</u>	<u>3</u>
Accommodation and Food Services	<u>46</u>	<u>34</u>
Construction	<u>34</u>	<u>16</u>
Manufacturing	<u>12</u>	<u>5</u>
Computer Systems Design	<u>2</u>	<u>4</u>
Health	<u>84</u>	<u>4</u>
Individual and Family Services/Child Care	<u>2</u>	<u>23</u>

### How to find local businesses by industry

Qualityinfo.org has two business lookup tools with different strengths and focuses:

#### Unemployment Insurance (UI) Tax Records

[Link to tool](#)

Strengths: complete records, we have direct information and specific search capabilities

Weaknesses: cannot share employer contact info, industry coding can be complex

#### Data Axle (3rd party contracted company)

[Link to tool](#)

Strengths: contact information and physical location, businesses outside UI system

Weaknesses: can be somewhat inaccurate/dated, search is gated by specific industry

The number represents the number of businesses found in Cottage Grove. Other search options by industry or geography (such as county or ZIP code) are available in the tool

## CASE STUDY 2: SECTOR AND CAREER EXPLORATION

### **Subject:** Lane County Labor Stats

In Junction City we have a unique middle school CTE informational series. About twice a month I go into the 8th grade classrooms and present our programs of study, elective choices and careers in that field. I'd love to also include any labor stats each time if I can.

Key question: how can I boil down what middle schoolers need to know about health care or graphic design?

## CASE STUDY 2: SECTOR AND CAREER EXPLORATION

### Graphic design and computer science

Key occupations

[Graphic Designers](#)

[Software Developers](#)

[Multimedia Artists and Animators](#)

[Commercial and Industrial Designers](#)

Professional and Technical Services Industry

Establishments	Employment	Average Wage	Job Growth 2021-2031	Replacements and new job openings
1,330	6,279	\$72,776	18%	6,900

### Health sciences

Key occupations

[Registered Nurses](#)

[Medical Assistants](#)

[Respiratory Therapists](#)

[Physician Assistants](#)

Health Care and Social Assistance Industry

Establishments	Employment	Average Wage	Job Growth 2021-2031	Replacements and new job openings
2,650	25,628	\$60,346	18%	31,900

Key data points like number of replacements and job openings, wages, and what jobs are included.

Potential audiences include not just students but also teachers and parents



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Health Care and Social Assistance Industry

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### Occupation Profiles

#### Graphic Designers (271024) Oregon (All Counties)

Median Hourly Wage	2022 Employment	Job Openings per Year	10-Year Growth
\$29.52	3,837	387	15.2%

#### Description

Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects. Excludes Web and Digital Interface Designers (15-1255).



## CASE STUDY 3: OCCUPATION DEEP DIVE

**Subject:** Re: Couple quick labor related questions...

I need support finding occupational projections, wages, education level and any interesting demographic data within the emergency services cluster. I did a search using the Occupation and Wage tool, but was hoping for assistance to create one chart that has an expanded list that includes not only EMT, EMR, Paramedics, but Fire and Police occupations as well.

## CASE STUDY 3: OCCUPATION DEEP DIVE

Occupation	2022 Employed	2023 Average Hourly Wage	2021-2031 Growth	Typical Entry Education
Supervisors of Police and Detectives	1,250	\$55.88	10%	HS diploma or equivalent
Supervisors of Firefighting and Prevention Workers	753	\$49.26	11%	HS diploma or equivalent
Forest Fire Inspectors and Prevention Specialists	111	\$32.56	28%	HS diploma or equivalent
Psychiatric Aides	635	\$23.19	10%	HS diploma or equivalent
Security Guards	9,579	\$18.40	17%	HS diploma or equivalent
Fire Inspectors and Investigators	97	\$52.09	10%	Postsecondary training (non-degree)
Firefighters	3,406	\$33.10	10%	Postsecondary training (non-degree)
Paramedics	746	\$30.42	7%	Postsecondary training (non-degree)
Emergency Medical Technicians	1,377	\$21.80	7%	Postsecondary training (non-degree)
Emergency Management Directors	126	\$46.94	12%	Bachelor's degree

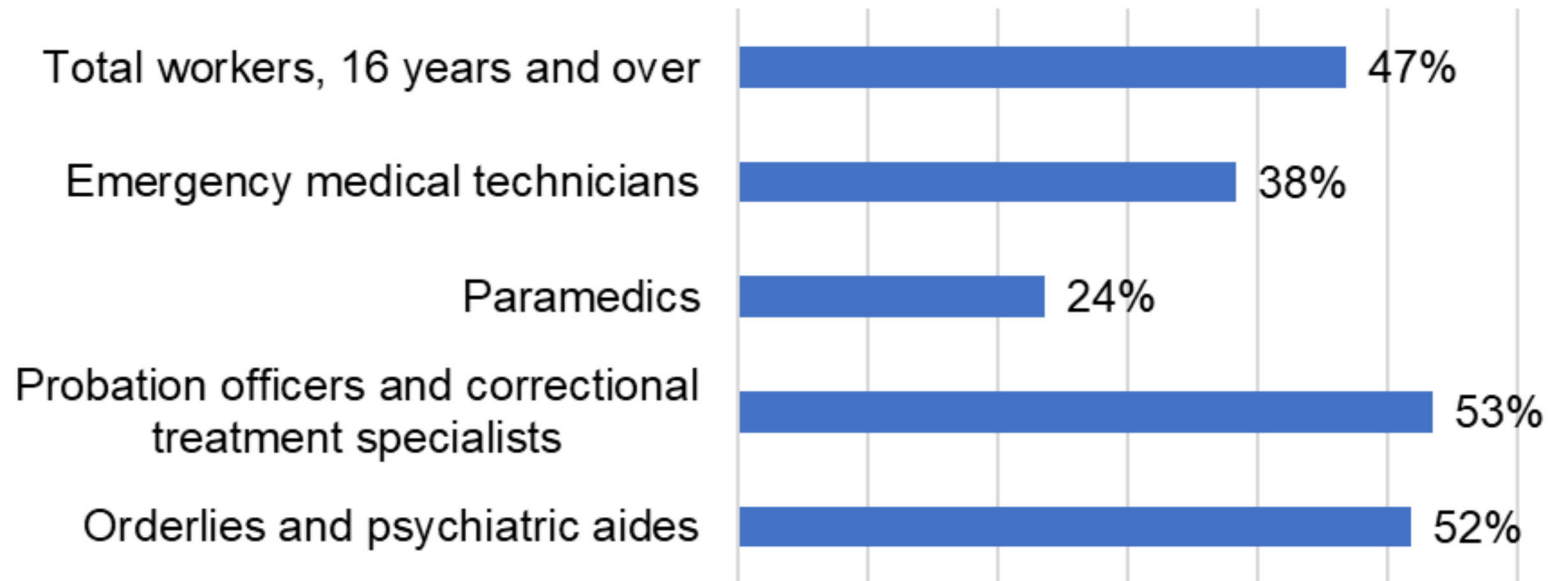
*Source: Oregon Employment Department, 2023 Wage Estimates and 2021-2031 Occupational Projections*

Expanding potential jobs and pathways in a specific occupation cluster.

Jobs can be sorted by typical entry ed., wages, demand, and more

## CASE STUDY 3: OCCUPATION DEEP DIVE

### Percentage of Workers who are Women U.S., 2022

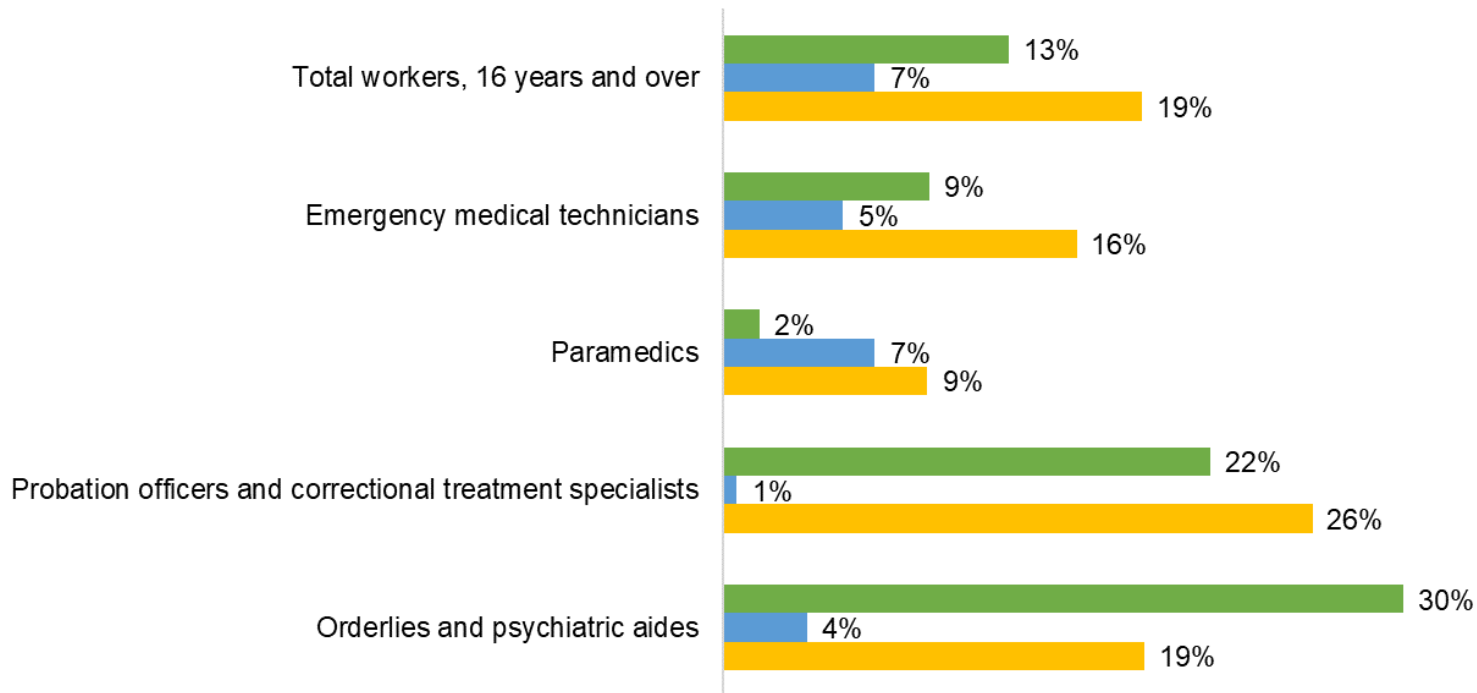


Source: Bureau of Labor Statistics

## CASE STUDY 3: OCCUPATION DEEP DIVE

Percentage of Workers by Race/Ethnicity  
U.S., 2022

■ Black or African American ■ Asian ■ Hispanic or Latino



Source: Bureau of Labor Statistics

## QUESTIONS AND DISCUSSION

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[Local Workforce Analyst Contacts](#)