Longitudinal Employer-Household Dynamics Workforce Data Products

2023 Goldschmidt Data Immersion Workshop

Presented by: Earlene K.P. Dowell

February 28, 2023

US Census Bureau

LEHD Program

Outline

I. LEHD Program and LED Partnership
II. Data Products and Tools and more

LEHD.CES.Census.Gov

- To review past webinars please visit the Learn More for more information.
- Find stories on how LEHD data is being used on our LED in Action tab.

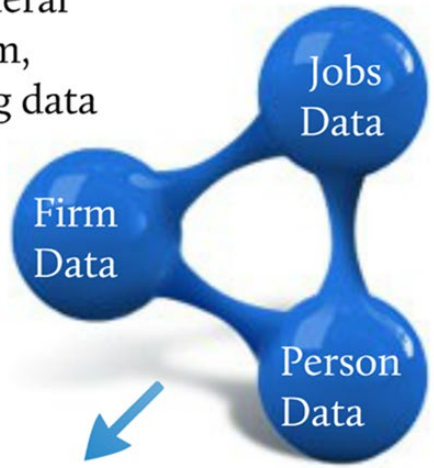
LEHD Program and LED Partnership

United States® Census Bureau

Program and Partnership

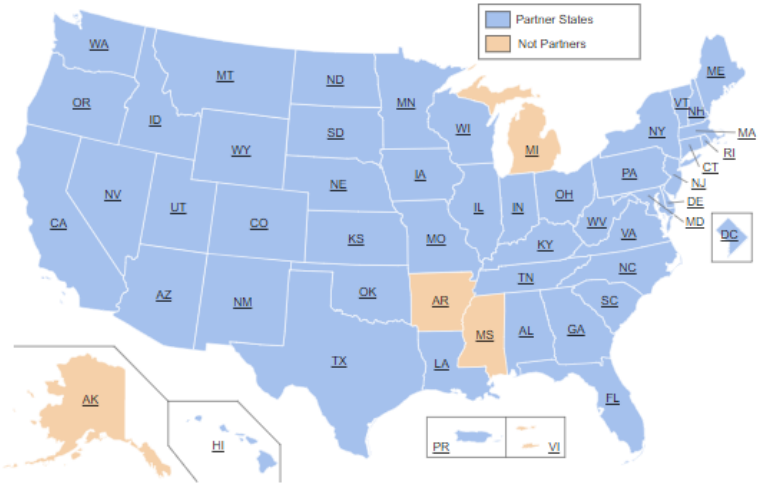
LEHD Program

An innovative federal statistical program, collecting existing data and ...



New linked national jobs data for the U.S.

..linking it together to provide new information sources at low cost



Alabama	Illinois	Montana	Rhode Island
Alaska	Indiana	Nebraska	South Carolina
Arizona	Iowa	Nevada	South Dakota
Arkansas	Kansas	New Hampshire	Tennessee
California	Kentucky	New Jersey	Texas
Colorado	Louisiana	New Mexico	Utah
Connecticut	Maine	New York	Vermont
District of Columbia	Maryland	North Carolina	Virginia
Delaware	Massachusetts	North Dakota	Washington
Florida	Michigan	Ohio	West Virginia
Georgia	Minnesota	Oklahoma	Wisconsin
Hawaii	Mississippi	Oregon	Wyoming
Idaho	Missouri	Pennsylvania	Puerto Rico
			Virgin Islands

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LEHD Data Tool

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Longitudinal Employer-Household Dynamics (LEHD)

Data Product	Explore the data, answer questions, or get visualizations	Bulk data for use in analysis process/software	Live queries for building web applications
QWI	QWI Explorer	LED Extraction Tool and Raw data download	Census Bureau API
LODES	OnTheMap OnTheMap for Emergency Management	Raw data download coming in the LED Extraction Tool in 2023	Future development
J2J	J2J Explorer	LED Extraction Tool and Raw data download	Future Development
PSEO	PSEO Explorer	Raw data download	Census Bureau API
VEO	VEO Explorer	Raw data download	Future Development

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America Counts Stories Behind the Numbers

United States Census Bureau

Partners Researchers Educators Survey Respondents News NAICS Codes Jobs About Us Contact Us Help

Topics Data & Maps Surveys & Programs Resource Library Search data, events, resources, and more

More Women in Manufacturing Jobs in Every Age Group

// Census.gov / America Counts: Stories Behind the Numbers / More Women in Manufacturing Jobs in Every Age Group

Manufacturing Opens More Doors to Women

October 03, 2022

Written by: Earlene K.P. Dowell

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J2J Explorer

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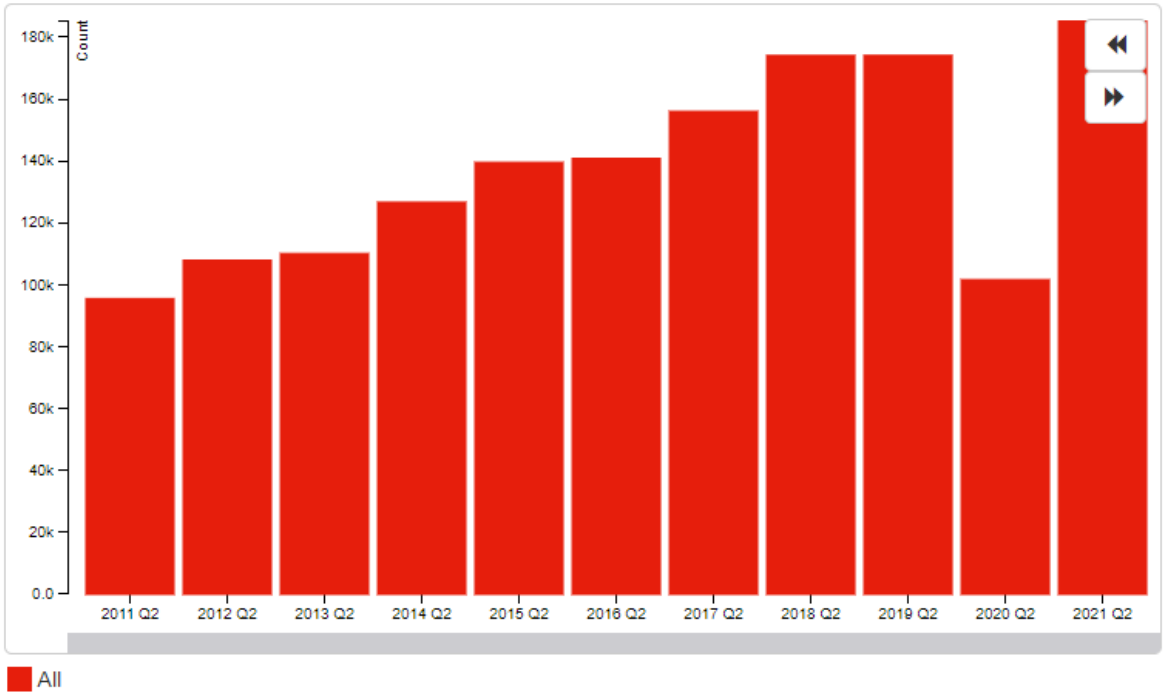
J2J Explorer Women in Manufacturing over the past 10 Years

United States Census Bureau **J2J Explorer**

Guided Entry | Advanced Settings | Clear Settings | LEHD Home | Help

Table | Line | Bar | Map | Bipartite | Matrix | Go full screen | Export data



Job-to-Job Flows to Manufacturing by Year/Quarter filtered by Sex

Q2 Series 2011 - 2021

Indicator

Job-to-Job Flows (J2J)

Job flows with a short or no observed nonemployment spell

X-Axis: Year/Quarter

Group: None

2021 Q2, 2020 Q2, 2019 Q2, 2018 Q2, 2017 Q2 and 6 Others

Filters

Firm Characteristics

Origin NAICS Sector
All

Destination NAICS Sector
Manufacturing

Worker Characteristics

Sex

Geography

Destination State
All

Origin State
All

Destination Metro Area
All

Origin Metro Area

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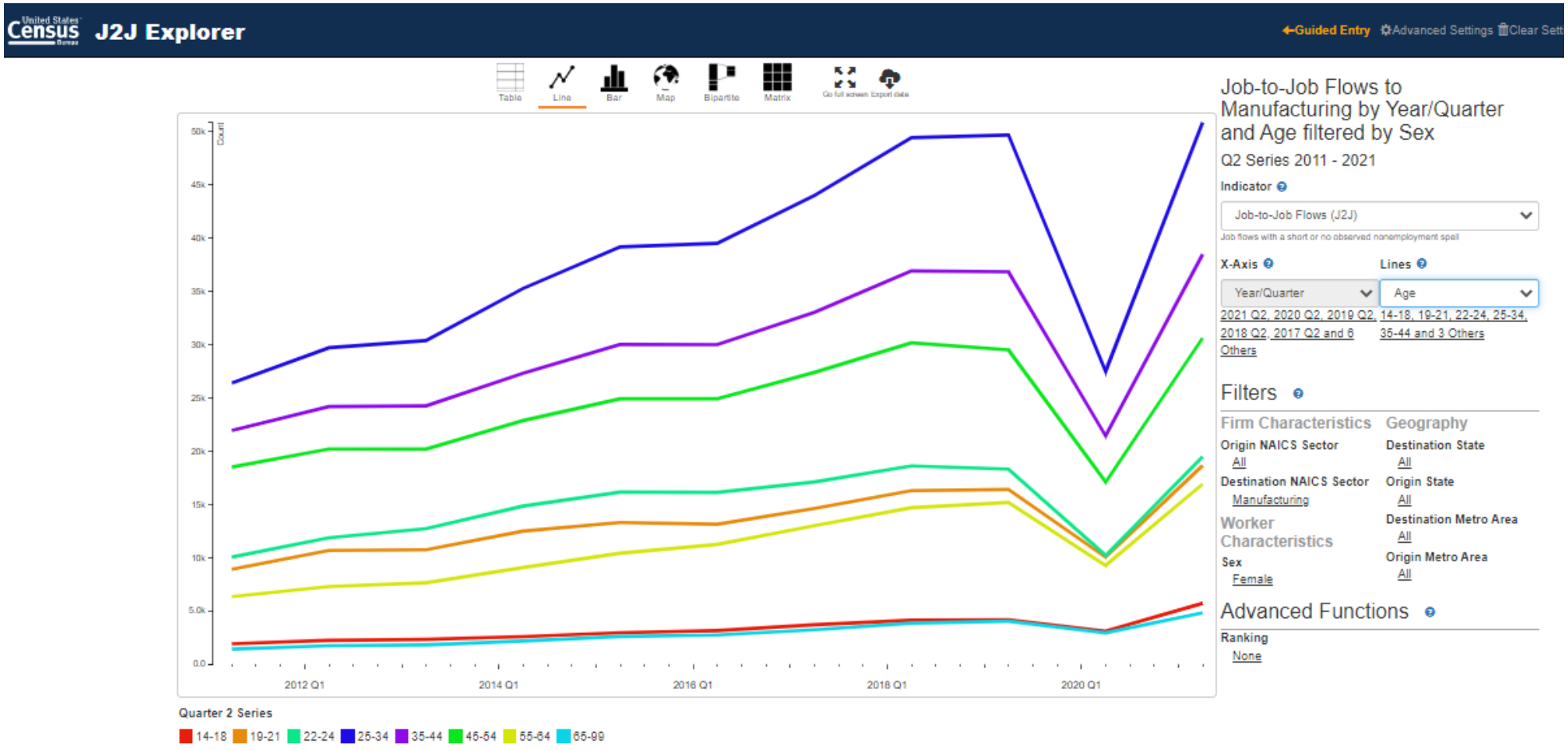
Women in Manufacturing by Age



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QWI Explorer

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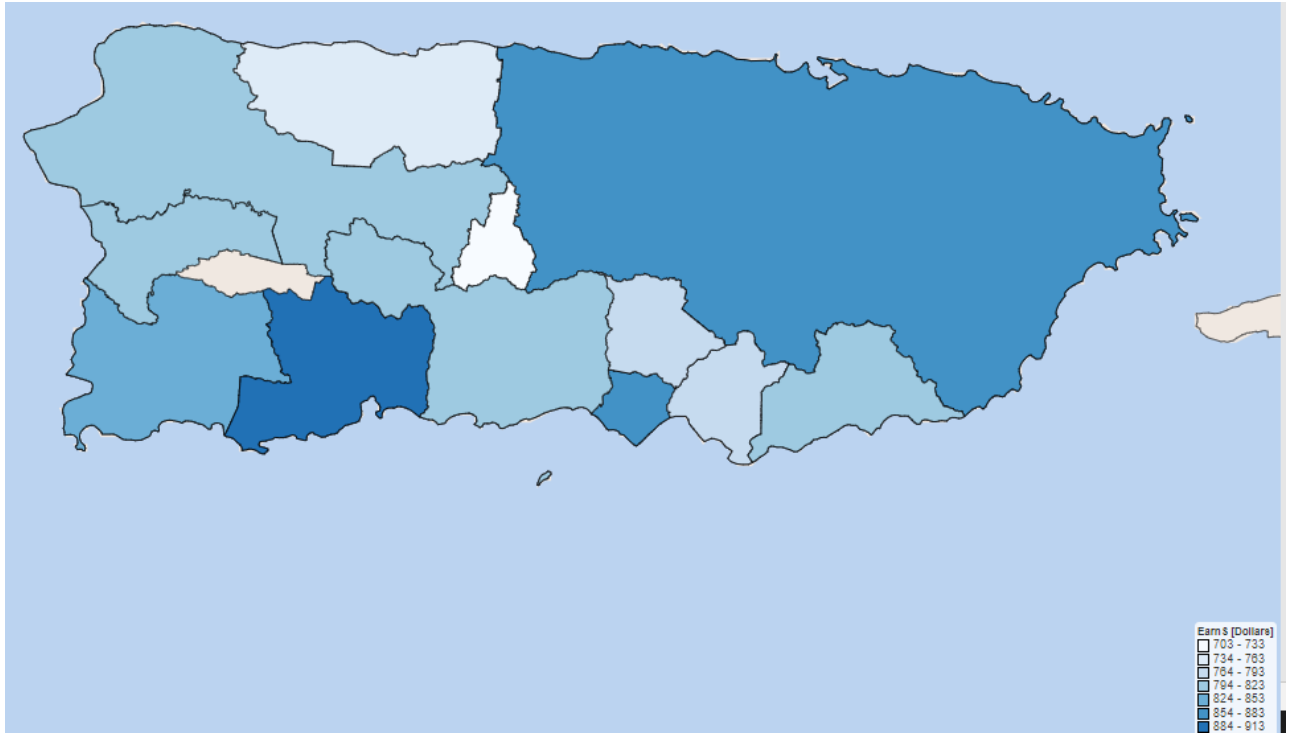
Puerto Rico Now in QWI Explorer



	14-18	19-21	22-24	25-34	35-44	45-54	55-64	65-99
Aguadilla-Isabela, PR	820	1,020	1,287	2,009	2,484	2,603	2,607	2,211
Arecibo, PR	749	977	1,252	1,714	2,119	2,520	2,445	2,267
Coamo, PR	780	945	1,078	1,681	1,990	2,131	2,172	1,945
Coco, PR	771	1,002	1,213	1,620	1,913	1,932	2,014	1,697
Guayama, PR	816	911	1,236	2,024	3,012	3,630	3,169	1,866
Jayuya, PR	703	934	1,495	2,187	2,492	3,006	2,503	1,774
Mayagüez, PR	808	991	1,303	1,841	2,112	2,404	2,286	2,125
Ponce, PR	820	991	1,223	1,752	2,282	2,575	2,541	2,507
San Germán, PR	837	1,029	1,224	1,587	1,773	2,138	2,071	1,934
San Juan-Bayamón-Caguas, PR	865	1,123	1,478	2,238	3,034	3,651	3,492	2,939
Santa Isabel, PR	854	990	1,186	2,305	3,059	3,180	3,446	1,794
Yauco, PR	913	1,012	1,232	1,709	2,117	2,284	2,227	2,157
Nonmetropolitan, nonmicropolitan, PR	993	1,331	1,525	1,909	2,279	2,508	2,462	2,060

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Women in Manufacturing in Puerto Rico

Puerto Rico

Indicator

Emp - Beginning of Quarter Employment: Cour

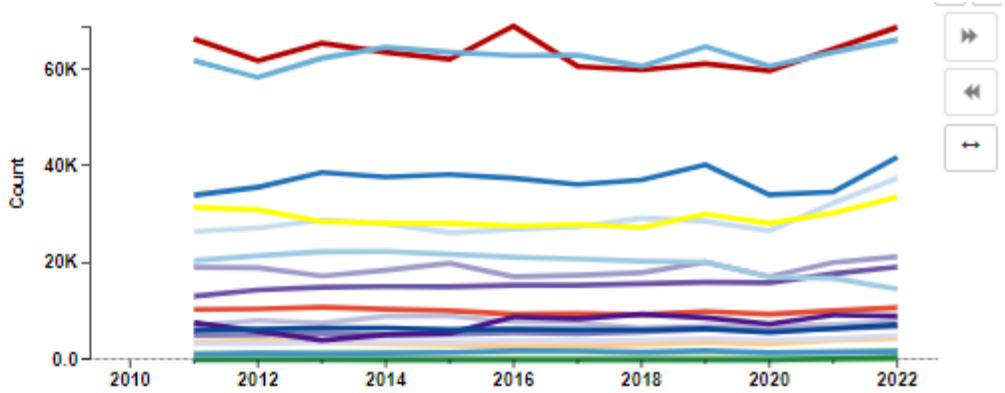
Get Data | Share | Get Report

Filters/Aggregations

Time: X-Axis
Geography: None
Industries: Group
Firm Ownership: All Private Ownership
Firm Age/Size: None
Worker Sex: Female

QWI Status Flags

- No data available in this category for this quarter.
- Data not available to compute this estimate.
- Aggregate of cells not released because component cells do not meet U.S. Census Bureau publication standards.



X-Axis: Yearly Averages
13 Years Selected
Normalize on X-Axis

Group: NAICS Sectors
20 NAICS Sectors Selected
Normalize on Group

	Manufacturing	Wholesale Trade	Retail Trade	Transportation and Warehousing	Information	Finance and Insurance	Real Estate and Rental and Leasing	Professional, Scientific, and Technical Services	Man of Co and En
2018	27,300	9,306	59,789	4,053	6,591	17,973	5,833	15,705	
2019	30,088	9,998	61,046	4,411	7,028	20,109	6,344	16,050	
2020	28,159	9,446	59,676	4,116	6,973	17,203	6,063	15,933	
2021	30,292	10,111	64,148	4,376	7,241	20,103	6,449	17,784	
2022	33,578	10,755	68,614	5,036	7,865	21,271	6,969	19,174	

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OnTheMap and OnTheMap for Emergency Management

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OnTheMap for Emergency Management

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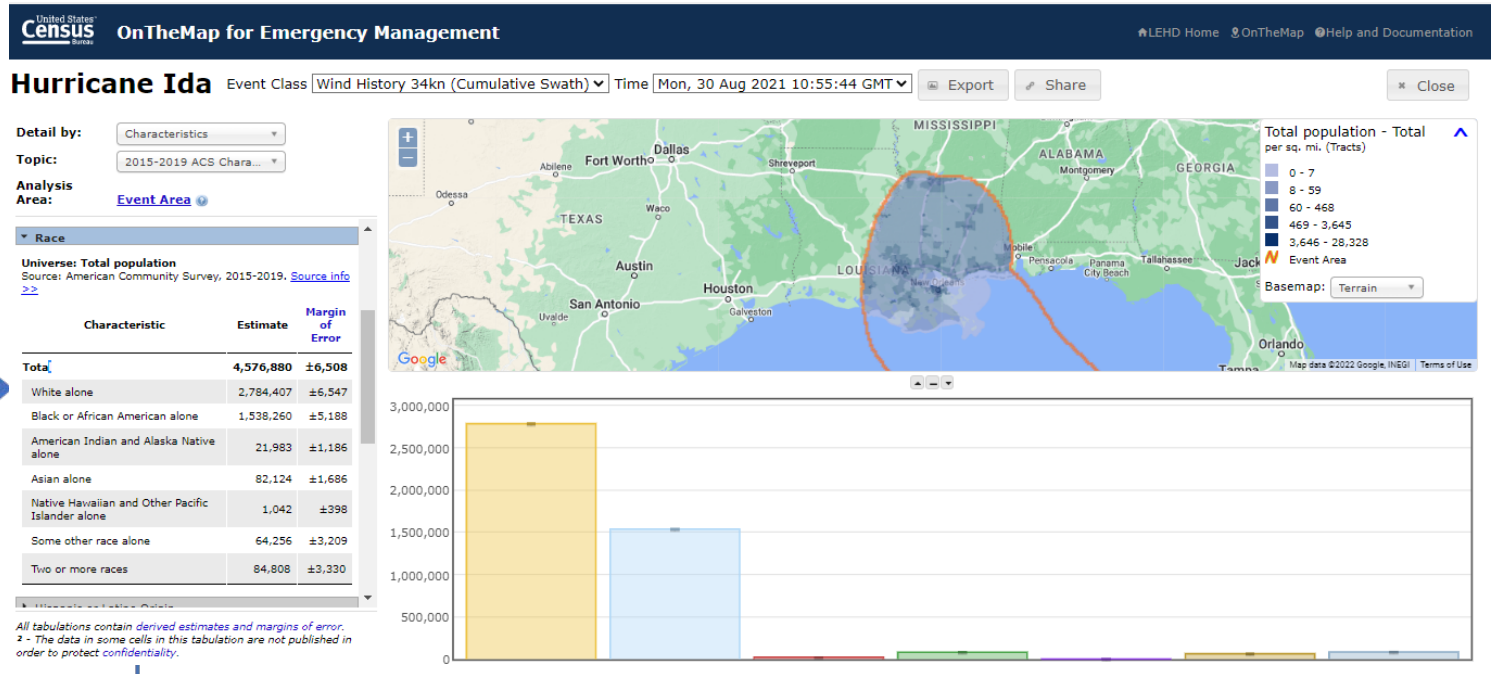
Hurricanes, Floods, Winter Storms

Disaster Areas

Wildfires

Demographic & Economic Data



New Public Data Service for Emergency Preparedness & Response

- Comprehensive Reports
- Real-time Data Updates
- Easy-to-use & Interoperable
- Historical Event Archive
- Flexible Analyses & Visualizations

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U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov

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Social, Physical, and Economical Vulnerabilities

United States Census Bureau **OnTheMap for Emergency Management**

LEHD Home | OnTheMap | Help and Documentation

Emergency Declaration: EM-3591

Time Wed, 11 Jan 2023 20:00:02 GMT | Export | Share | Close

Detail by: Characteristics

Topic: 2015-2019 ACS Chara...

Analysis Area: Event Area

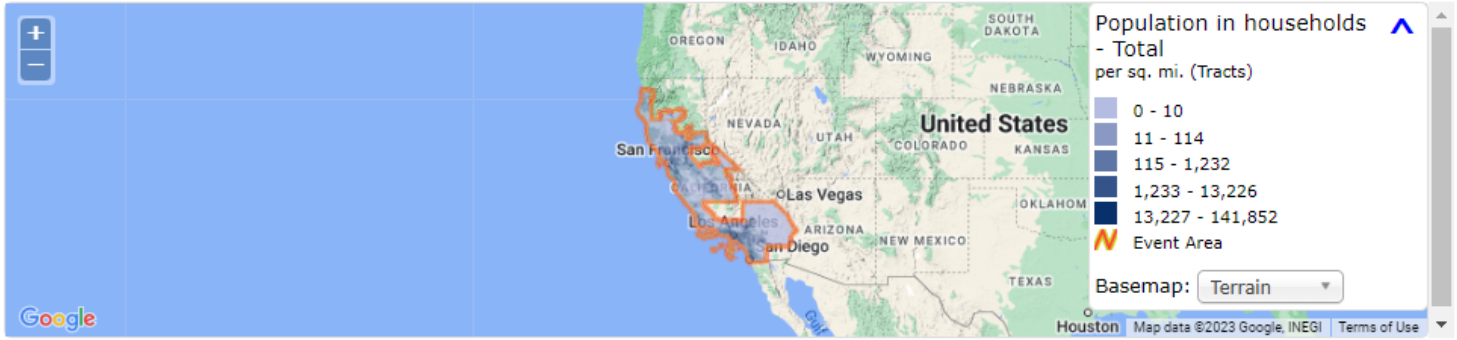
Household Type

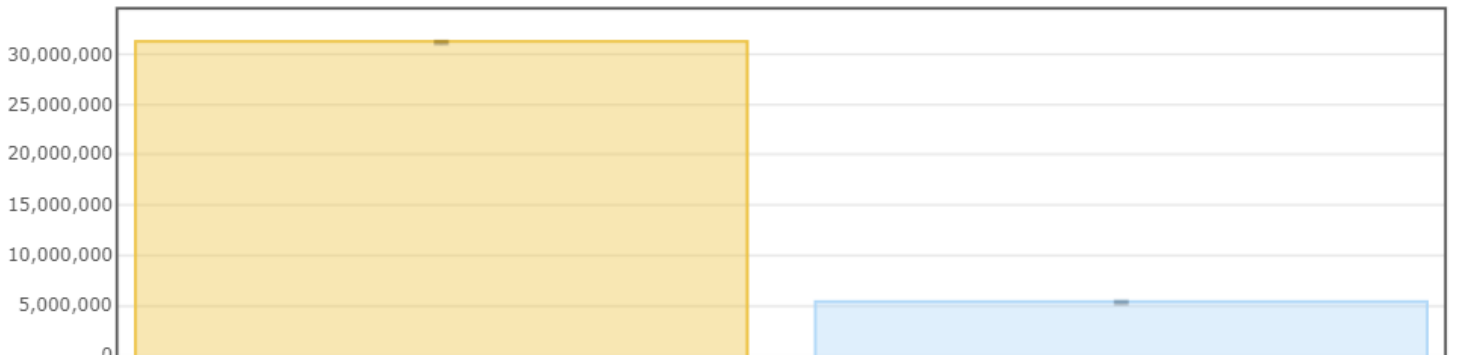
Universe: Population in households
Source: American Community Survey, 2015-2019. Source info >>

Characteristic	Estimate	Margin of Error
Total	**36,662,820**	**±7,339**
In family households	31,232,332	±20,753
In nonfamily households	5,430,488	±19,778

- Race
- Hispanic or Latino Origin
- Ability to Speak English by Age
- Ability to Speak English by Language Spoken at Home
- Disability Status by Poverty Status
- Disability Status by Age
- Ratio of Income to Poverty Level in the Past 12 Months

All tabulations contain derived estimates and margins of error.





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LODES Data and OnTheMap

United States Census Bureau OnTheMap

LEHD Home | Help and Documentation | Reload | Text-Only

Start | Base Map | Selection

Save | Load | Feedback | Previous Extent | Hide Tabs

Welcome to OnTheMap!

Start an analysis by using one of the tools below (Search, Import Geography, or Load .OTM file). Hover over the Help icons located throughout the application to see Help tips for using specific functionality. Sections in the control panel can be collapsed or opened by clicking the section title

2019 data now available!
Read New Data Notice (11/2/2021)

Search

Search

Search All Names

Import Geography

Import from KML
Import from SHP
Import from GPS

Load .OTM File

Click the "Load" button below to load a .OTM file.

Load

Seattle, Portland, San Francisco, San Jose, Las Vegas, Los Angeles, San Diego, Phoenix, Denver, El Paso, Oklahoma City, Dallas, Houston, Chicago, Detroit, Columbus, Memphis, Charlotte, Jacksonville, Boston, New York, Philadelphia, Washington

1000 km
500 mi

-108.29722, 29.47181

Note: The U.S. Census Bureau reviewed this data product for unauthorized disclosure of confidential information and approved the disclosure avoidance practices applied to this release. CBDRB-FY21-249.

Accessibility | Information Quality | FOIA | Data Protection and Privacy Policy | U.S. Department of Commerce | Census Home
Source: U.S.Census Bureau, Center for Economic Studies, LEHD | e-mail: CES.OnTheMap.Feedback@census.gov

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Work Area Profile Analysis

United States Census Bureau OnTheMap

LEHD Home | Help and Documentation | Reload | Text-Only

Start | Base Map | Selection | Results

Work Area Profile Analysis
enter your own subtitle

Display Settings
Characteristic Filter: NAICS Industry Sector: Manufacturing
Year: 2019

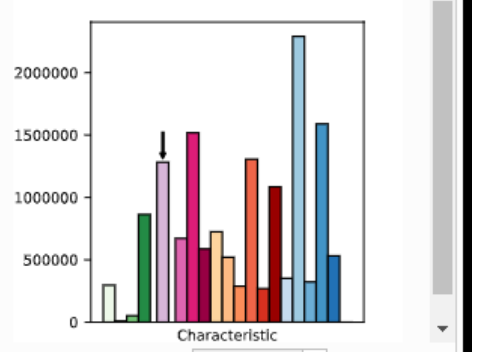
Map Controls
Color Key
Thermal Overlay
Point Overlay
Selection Outline
Identify | Zoom to Selection
Clear Overlays | Animate Overlays

Report/Map Outputs
Detailed Report
Export Geography
Print Chart/Map

Legends
5 - 2,337 Jobs/Sq.Mile
2,338 - 9,336 Jobs/Sq.Mile
9,337 - 21,000 Jobs/Sq.Mile

Change Settings

Save | Load | Feedback | Previous Extent | Hide Tabs | Hide Chart/Report



View as Bar Chart

Professional, Scientific, and Technical Services	1,305,886	9.0%
Management of Companies and Enterprises	269,192	1.8%
Administration & Support, Waste Management and Remediation	1,084,601	7.5%
Educational Services	351,587	2.4%
Health Care and Social Assistance	2,290,709	15.7%
Arts, Entertainment, and Recreation	322,464	2.2%
Accommodation and Food Services	1,588,908	10.9%
Other Services (excluding Public	531,526	3.7%

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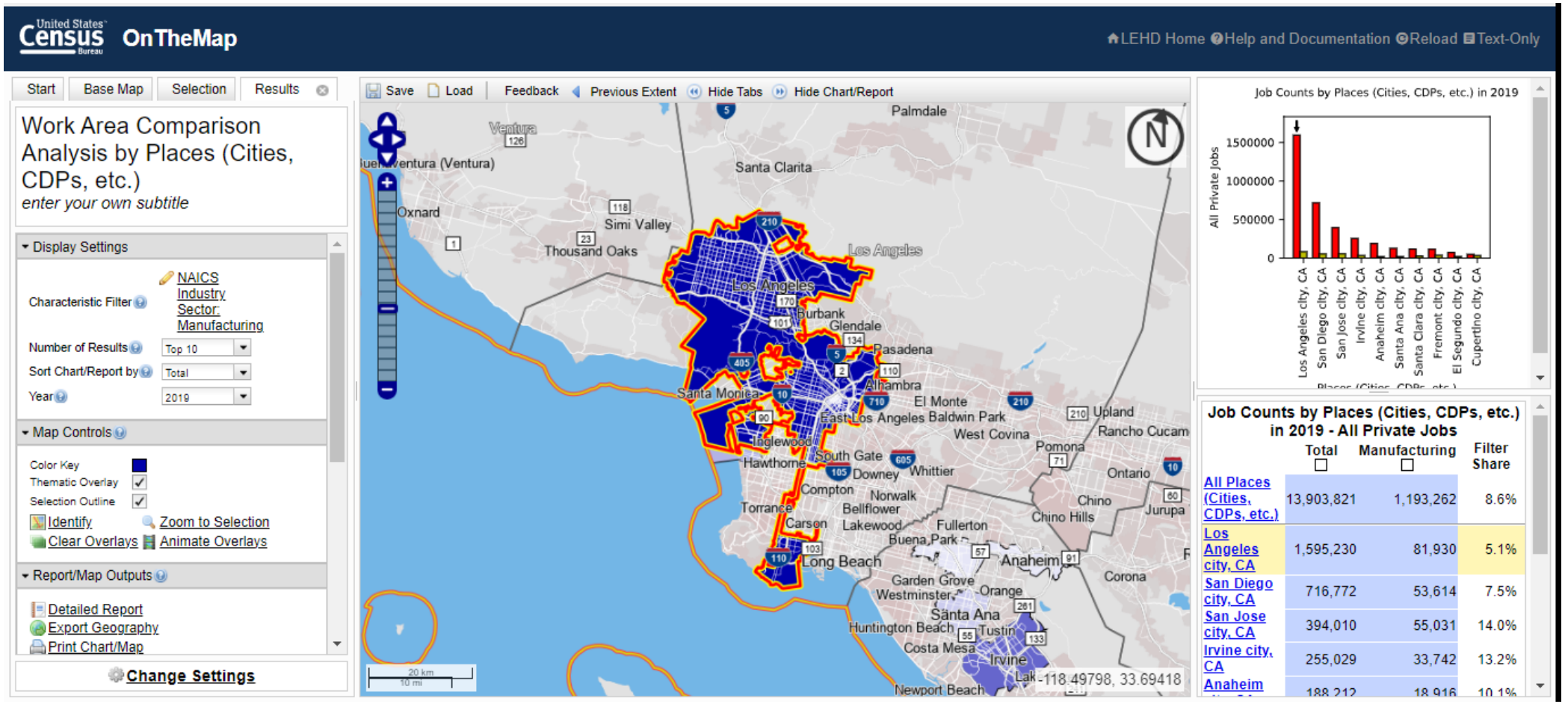
Work Area Comparison Analysis

LEHD Program



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Employment Outcomes Concepts

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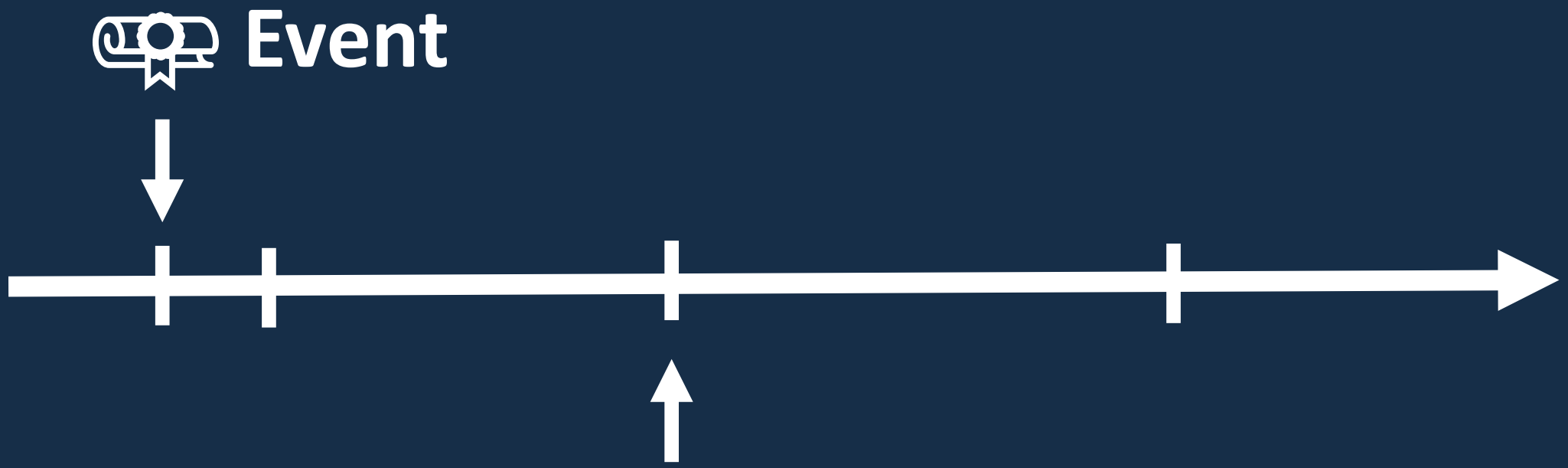
Career Timeline

Employment Outcomes



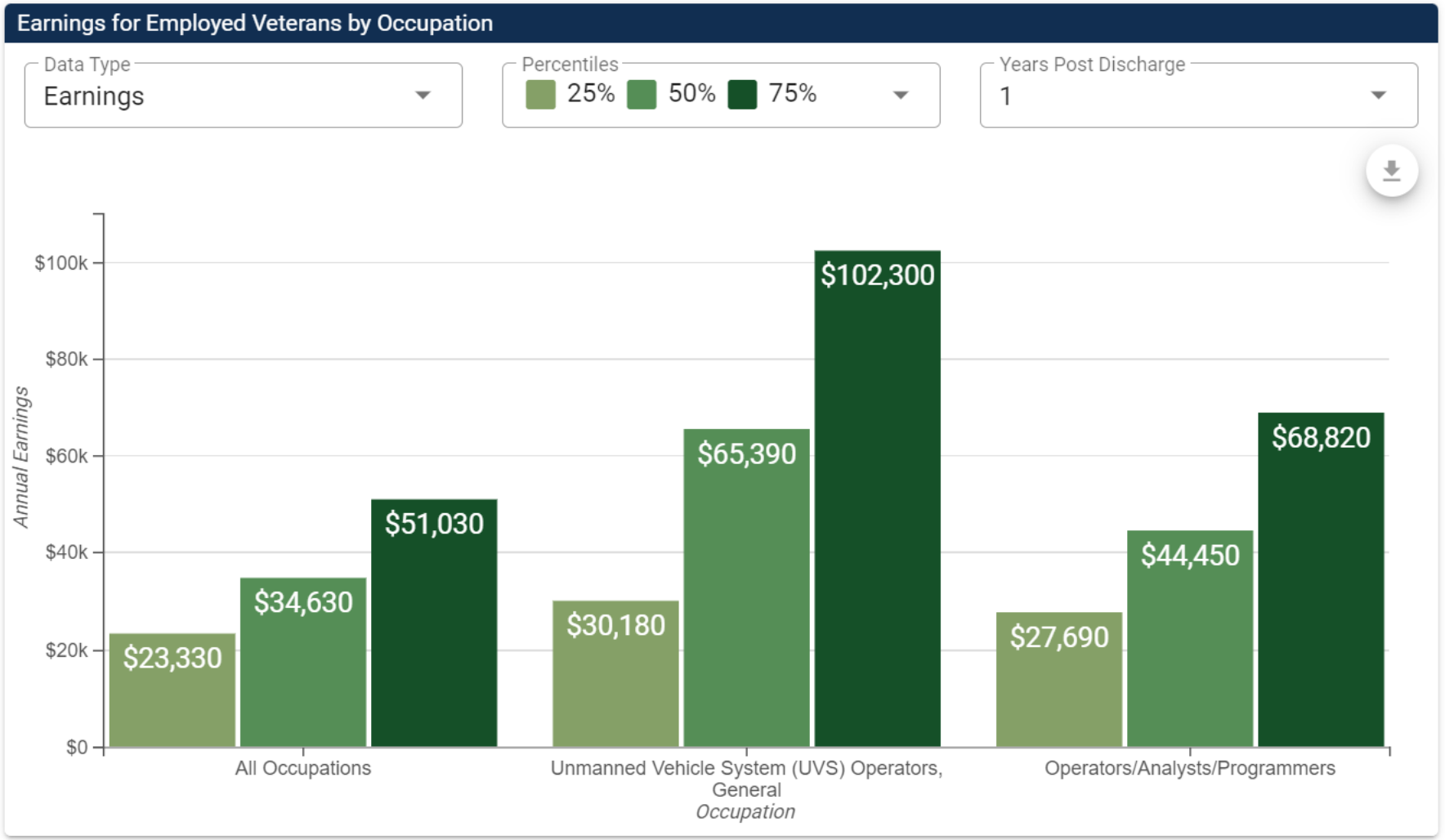
25%	50%	75%
40k	50k	60k

VEO Explorer

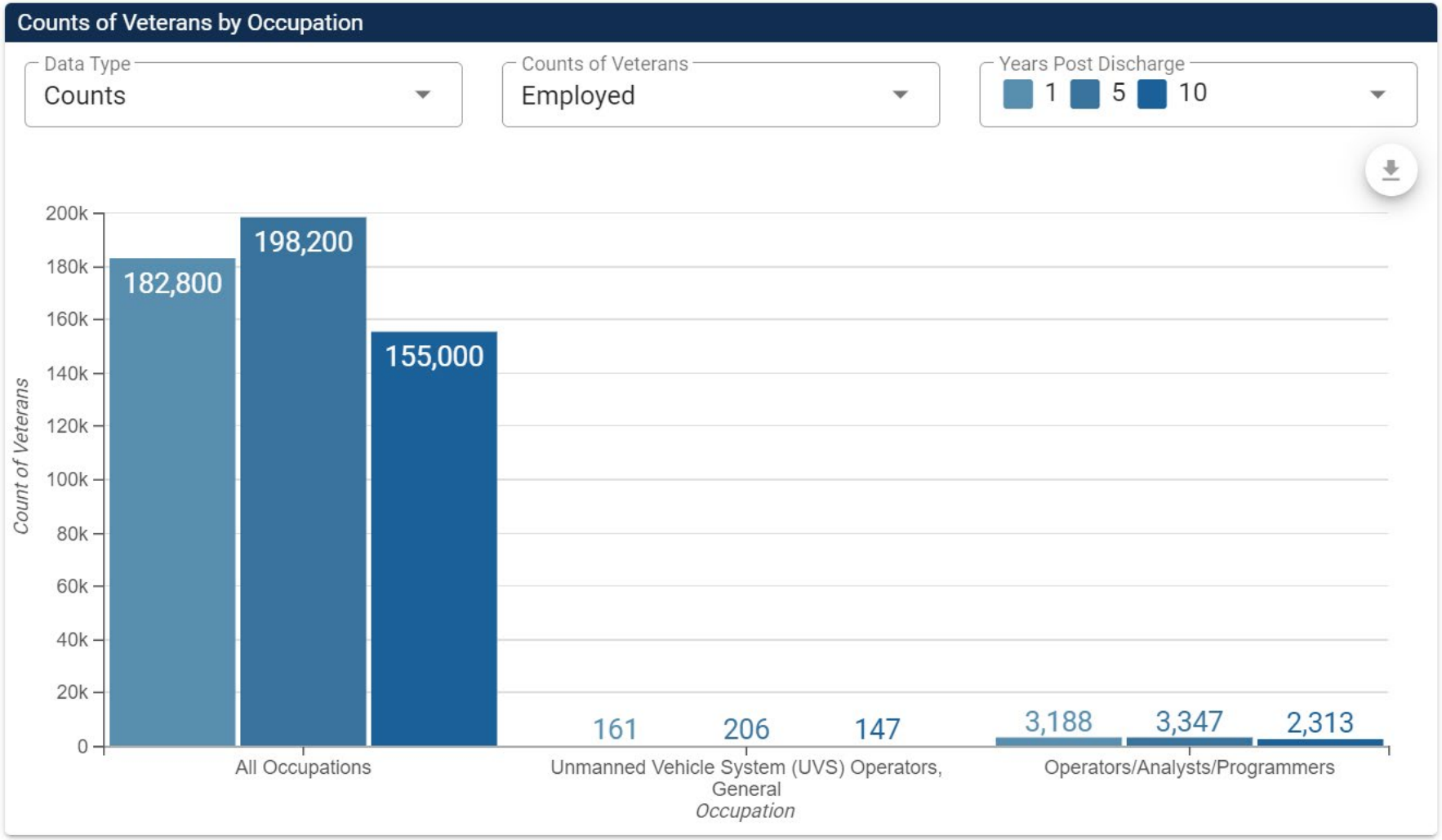
Direct link: VEO Explorer
or
Search: “census veteran employment”

United States® Census Bureau

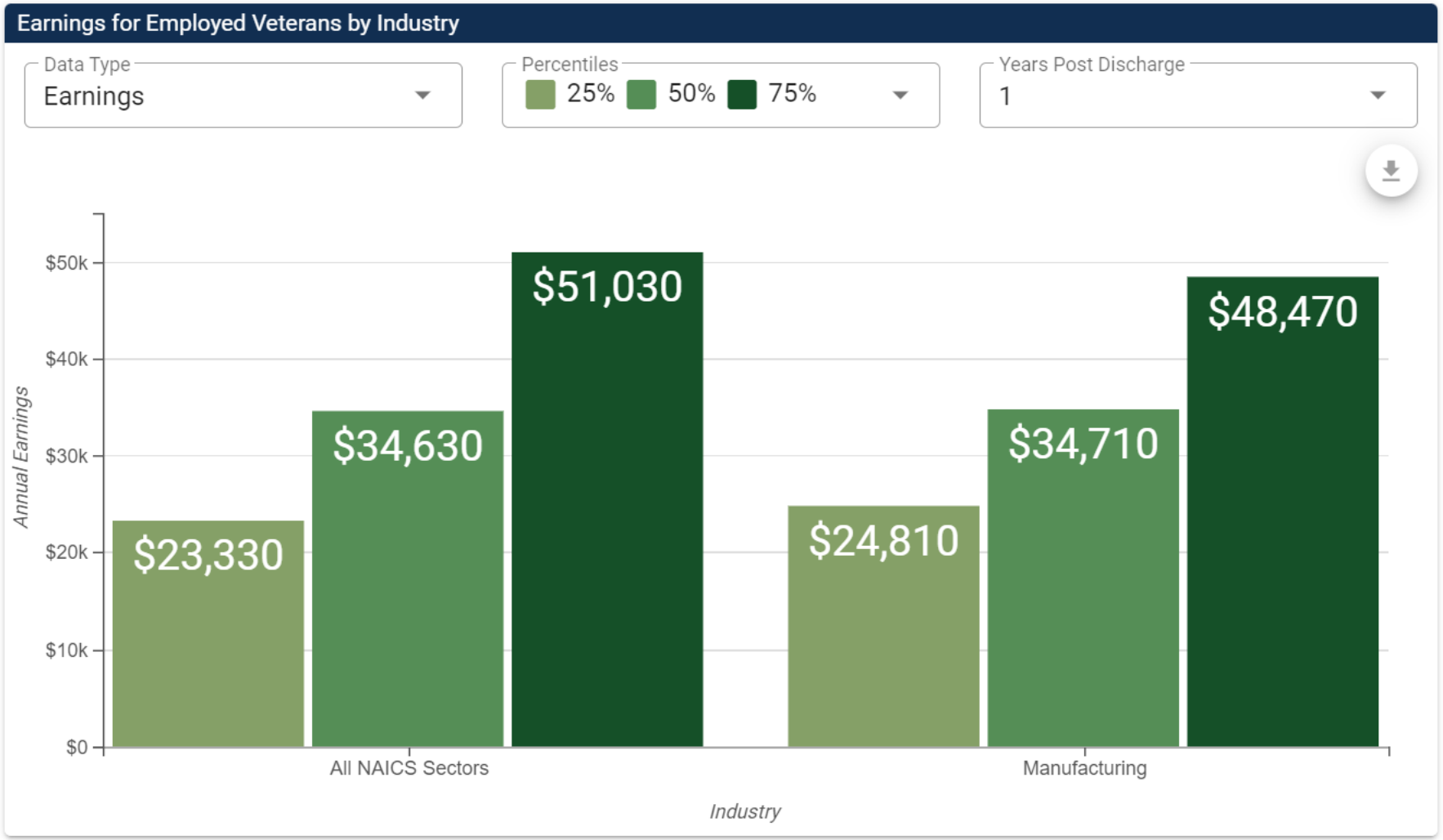
VEO Earnings by Military Occupation



VEO Counts of Veterans by Military Occupation



VEO Earnings by Industry



PSEO Explorer

Direct link: PSEO Explorer
or
Search: “census college employment”

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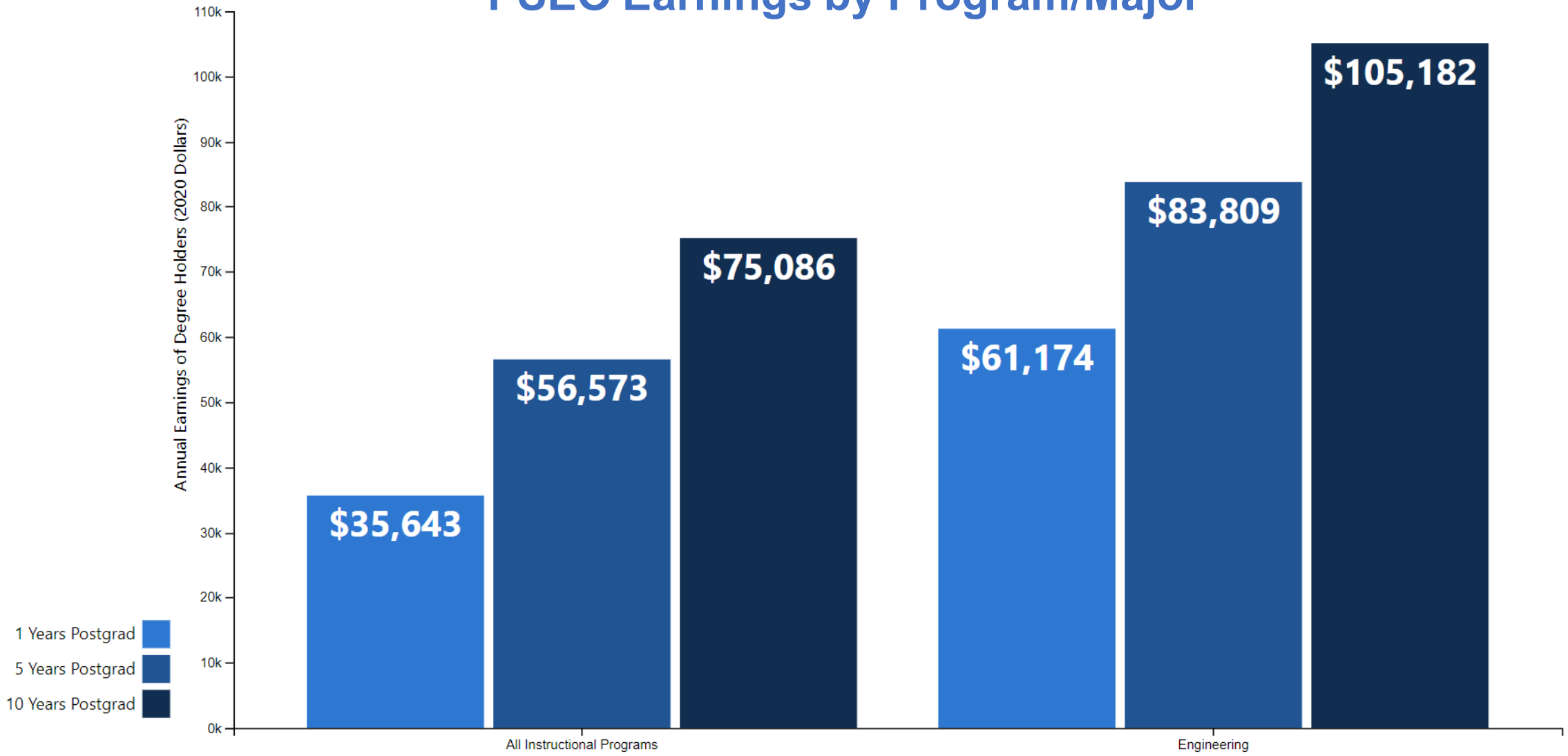
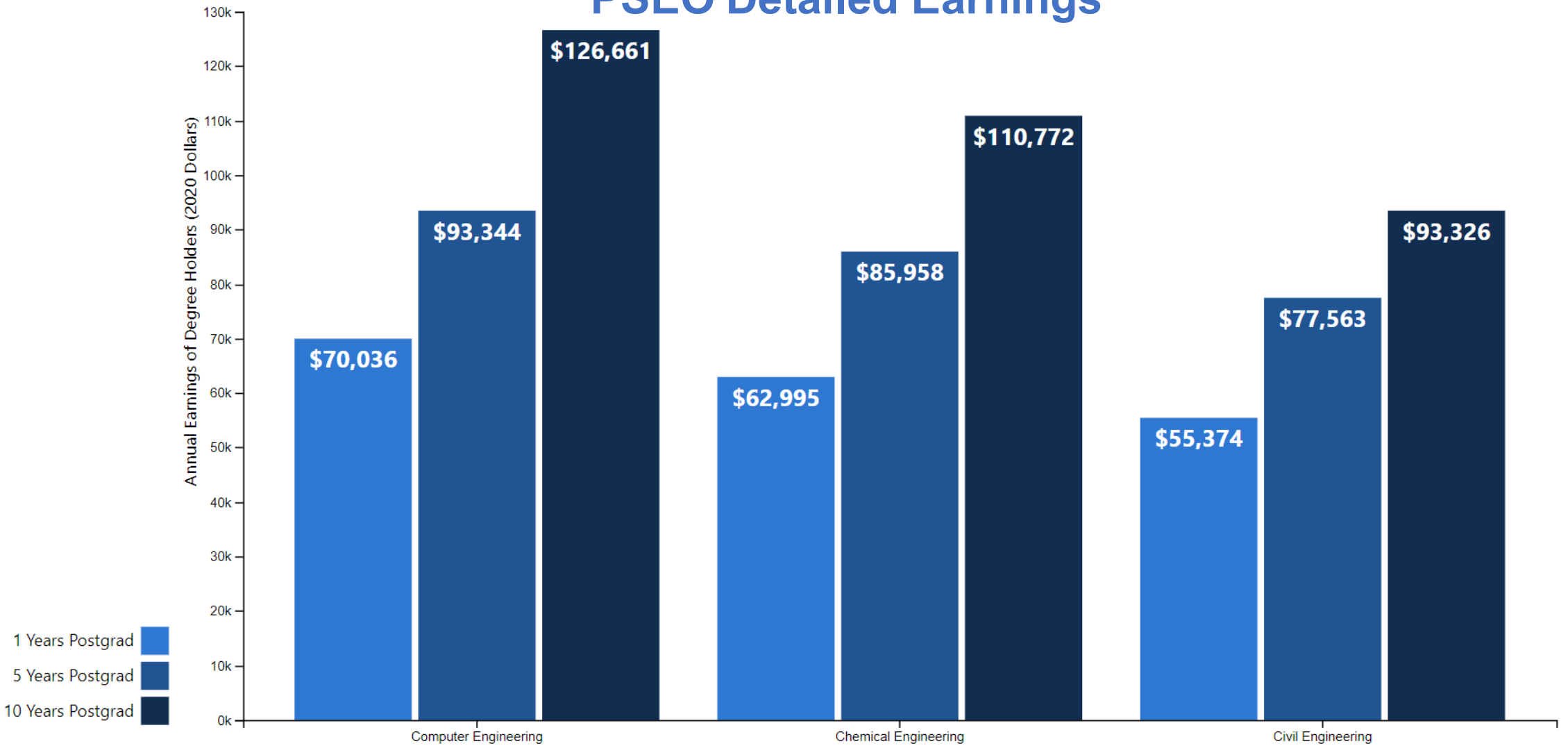
PSEO Earnings by Program/Major



PSEO Detailed Earnings



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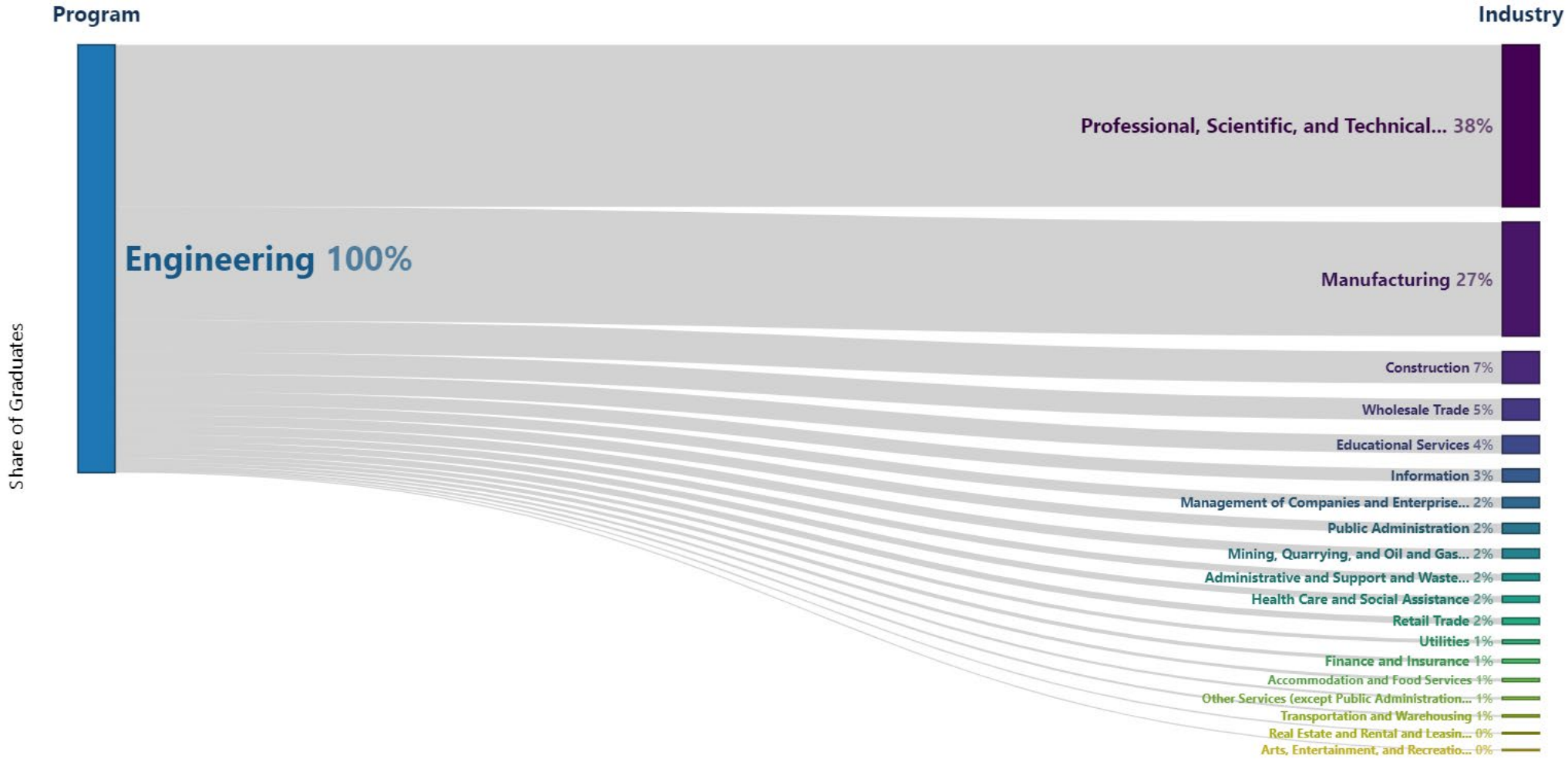
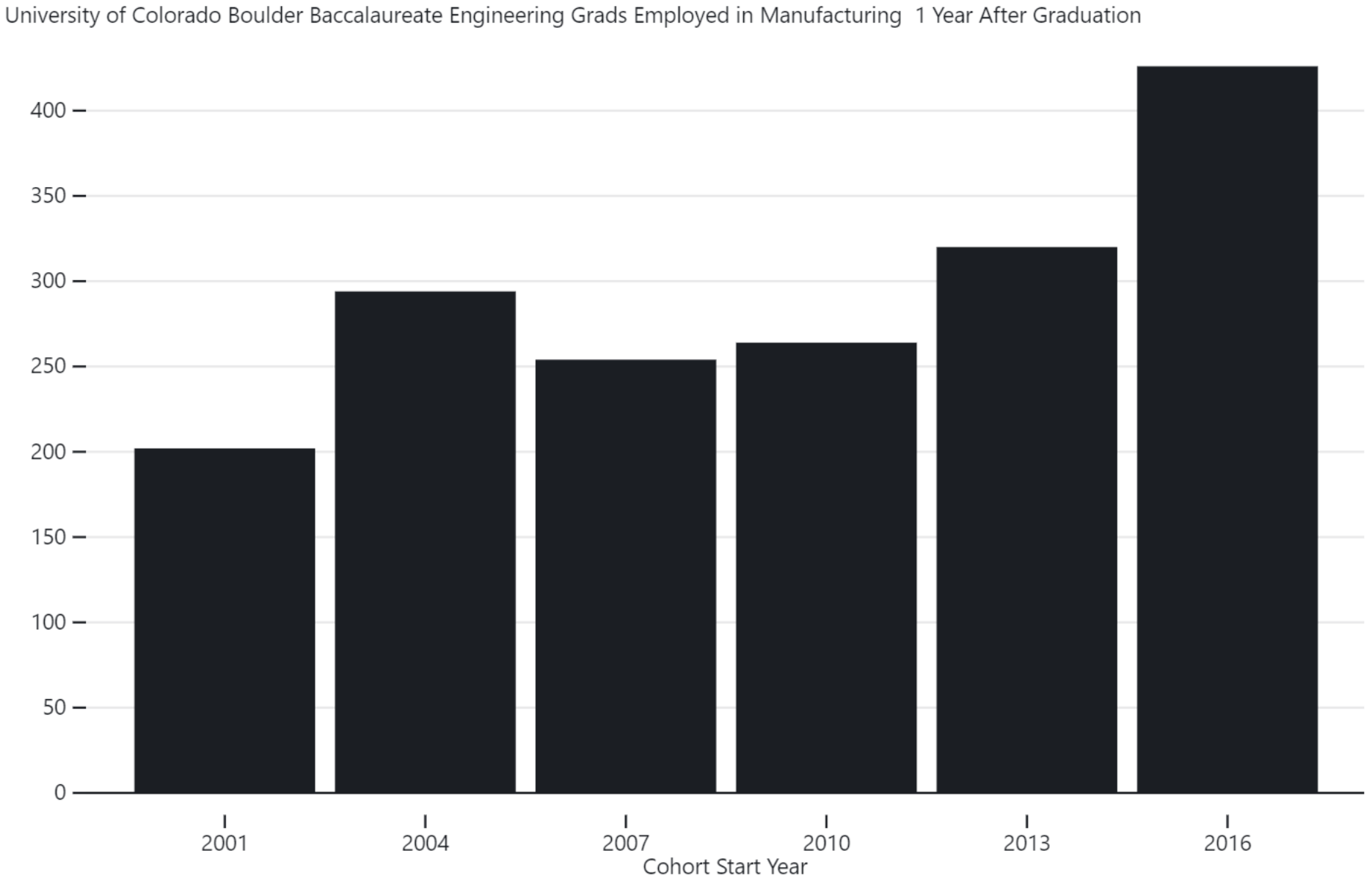
PSEO Flows – Number of Graduates by Industry



Source: observablehq.com/@jodyhoonstarr



United States Census Bureau

LEHD Program

Summary and Resources

Help and Documentation

Quarterly Workforce Indicator
lehd.ces.census.gov/applications/help/qwi_explorer.html

Job-to-Job Flows
lehd.ces.census.gov/applications/help/j2j_explorer.html

OnTheMap
lehd.ces.census.gov/applications/help/onthemap.html

OnTheMap for Emergency Management
lehd.ces.census.gov/applications/help/onthemap_em.html

Post Secondary Employment Outcomes
lehd.ces.census.gov/data/pseo_experimental.html

Veteran Employment Outcomes
lehd.ces.census.gov/data/veo_experimental.html

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2023 Local Employment Dynamics (LED) Partnership Virtual Workshop
March 28-30, 2023, 12-5pm

LEHD Program

Mar 28

2023 Local Employment Dynamics (LED) Partnership Virtual Workshop

https://www.eventbrite.com/e/2023-local-employment-dynamics-led-partnership-virtual-workshop-tickets-518058586177

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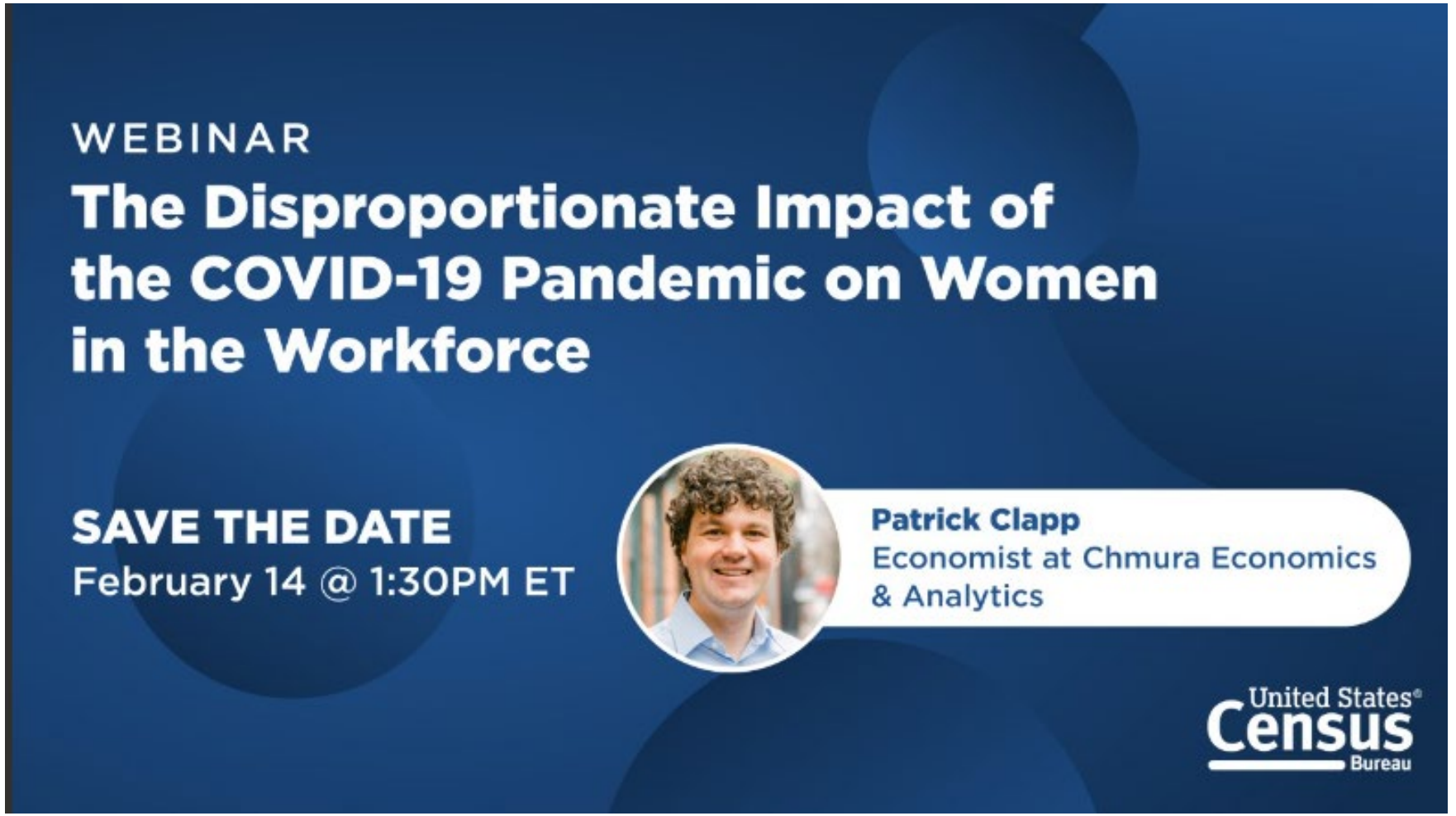
LED Webinar Series



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Q & A and Thank You!

Contact Information:

Earlene K.P. Dowell

Earlene.KP.Dowell@Census.Gov

Jody Hoon-Starr

Jody.Alexander.Hoon-Starr@Census.Gov

For detailed questions concerning the 2020 Decennial, contact:

301-763-INFO or 800-923-8282

To schedule additional training with a Census Data Dissemination Specialist in your area, please call 844-ASK-DATA

Or email us at: census.askdata@census.gov

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