



Overview of Center for Workforce Research and Information Data Products

Mark McInerney, Director

Hunter Morancy, Senior
Economic Research Analyst

Agenda

- 1) Introduction to the Center for Workforce Research and Information (CWRI) and the data the we produce. Use the data to understand how the COVID-19 pandemic has impacted Maine's labor market and the economic recovery that has ensued.
- 2) Explore the new MaineEARNNS website and the expanded features of the Maine Post-Secondary Outcome Report.
- 3) Learn how to build customized reports using the CWRI website and other features by exploring occupational employment and wage data and the CWRI job outlook.
- 4) Explore regional labor market information tools.

Section 1:
Overview of CWRI
Prevailing Workforce Conditions



- CWRI works in collaboration with the U.S. Department of Labor to produce Maine Labor Market Information (LMI)
- LMI: data on jobs and wages by industry and occupation, unemployment, labor force, projections, demographic information and more

CWRI Data Programs

Monthly [Payroll Jobs](#) and [Labor Force](#) estimates

[By Occupation](#): employment and wage estimates for more than 600 occupations

[By Industry](#): employment and wages by industry and location for all Maine employers covered by the unemployment insurance system

[MaineEARNs](#): connects employment outcomes to higher education and other training/education data sources

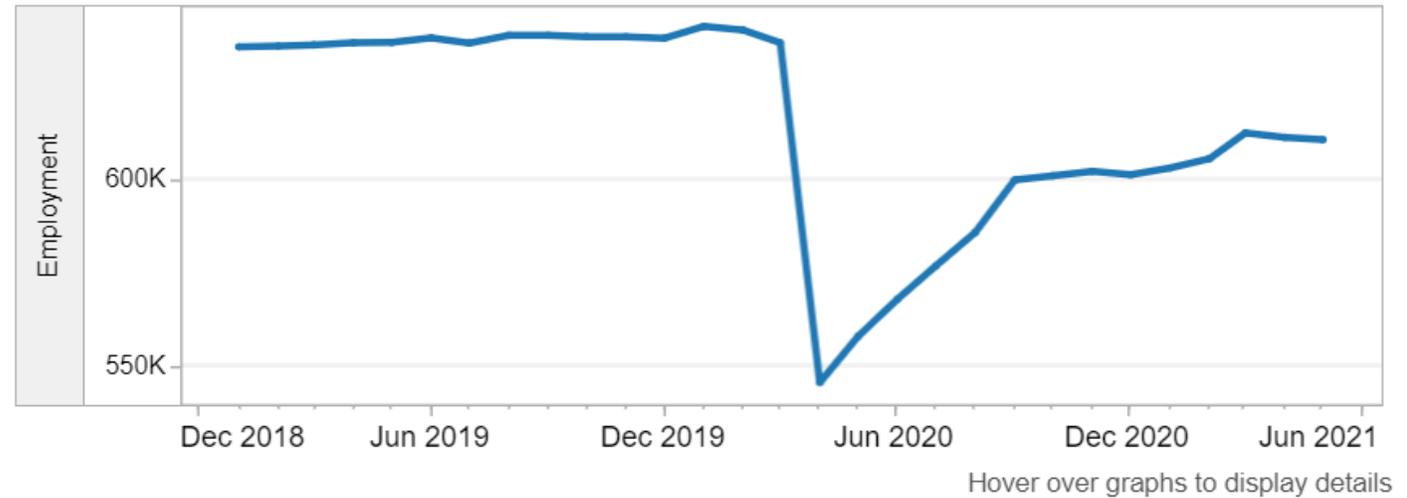
[10-year job outlook](#) and [High-wage, In Demand Jobs list](#)

Statewide, 94,500 payroll jobs were lost last spring, about 65,100 net job losses have been recovered

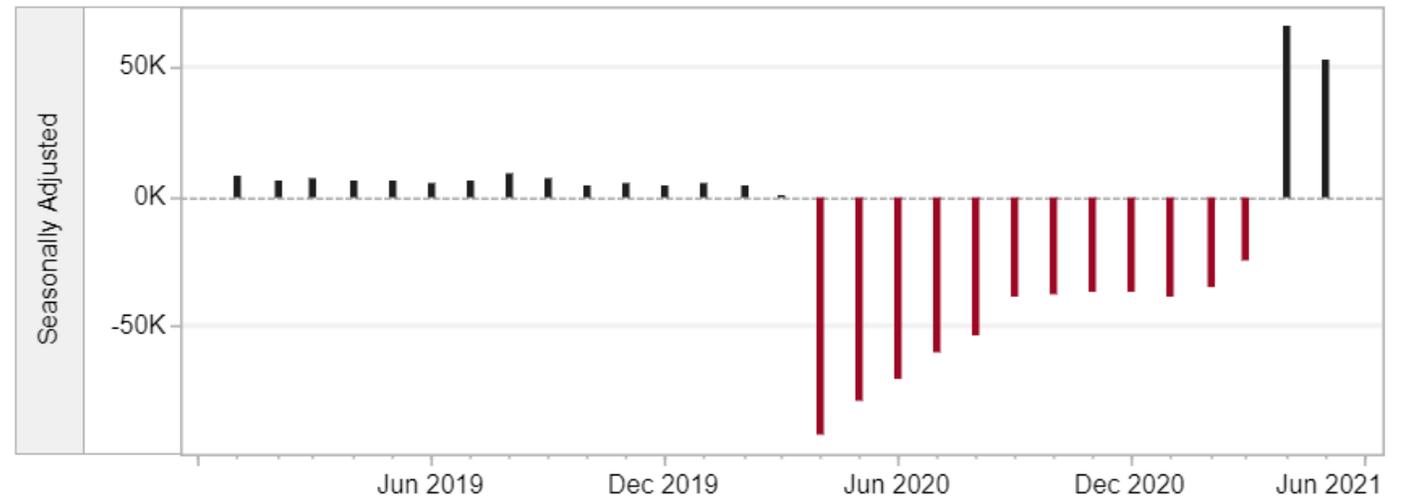
The state gained nearly 9,400 nonfarm payroll jobs so far in 2021, though little change in April and May

There remain 29,400 fewer jobs than in February 2020, before the pandemic affected the labor market. Maine had 4.6 percent fewer jobs than 15 months earlier, compared to the national 5.0 percent decrease.

Maine
Total Nonfarm



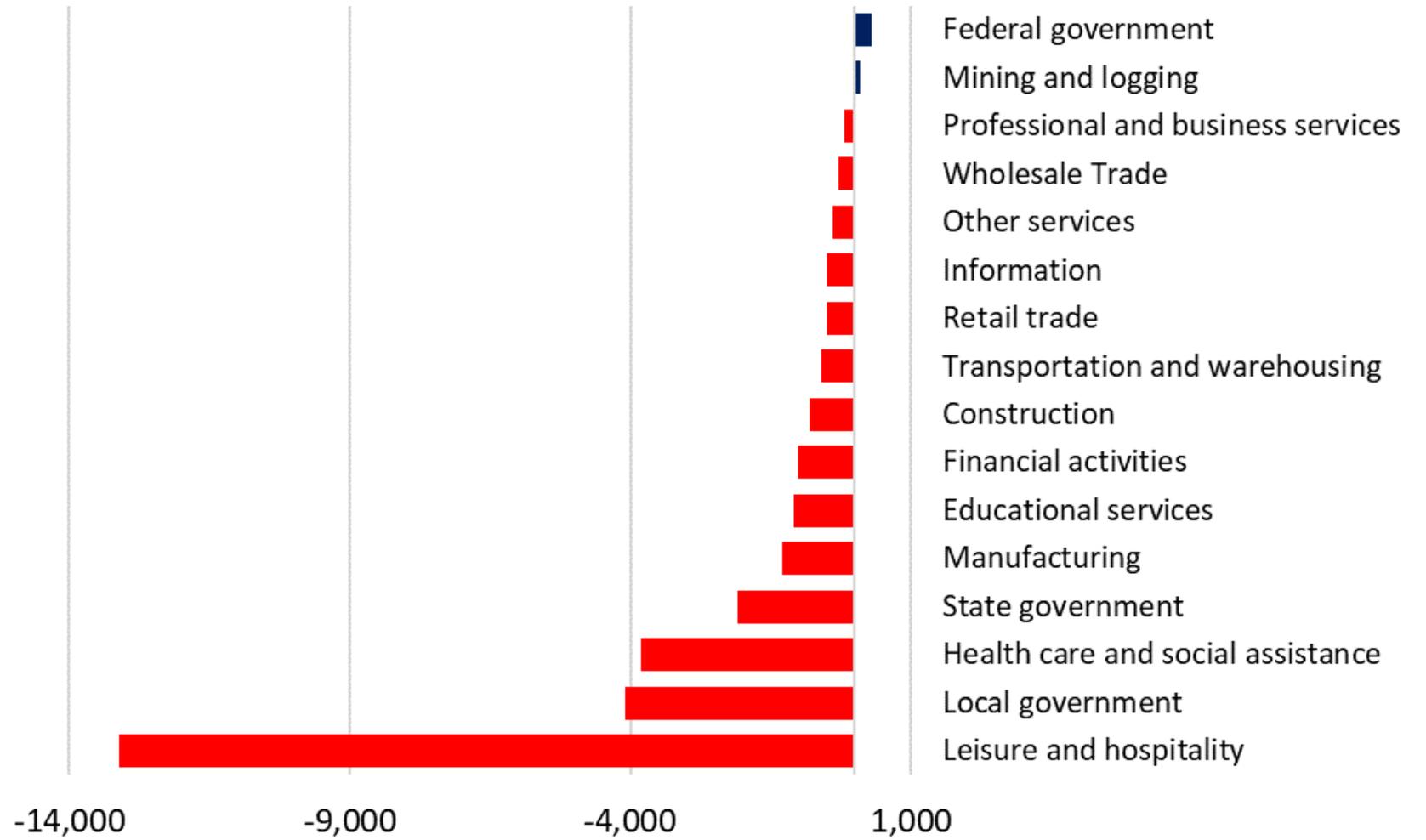
Over-the-Year Change



Net job losses have been heavily concentrated in sectors of the economy in which goods and services are delivered in-person and where close contact with customers, coworkers, clients and students is typically required.

Jobs remained down the most in leisure and hospitality, public and private education (K-12 and higher education), and healthcare and social assistance.

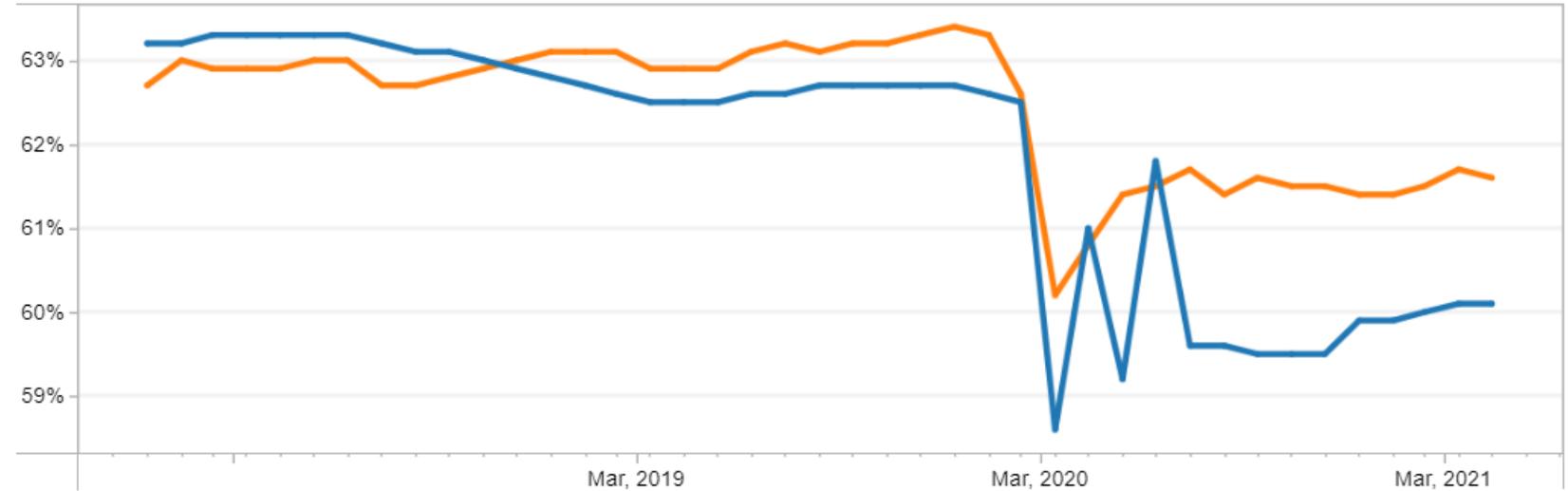
Net Change in Jobs by Industry from February 2020 to May 2021



Personal safety concerns, school closures and hybrid learning, limited childcare and other factors have prevented many jobless people from searching for work

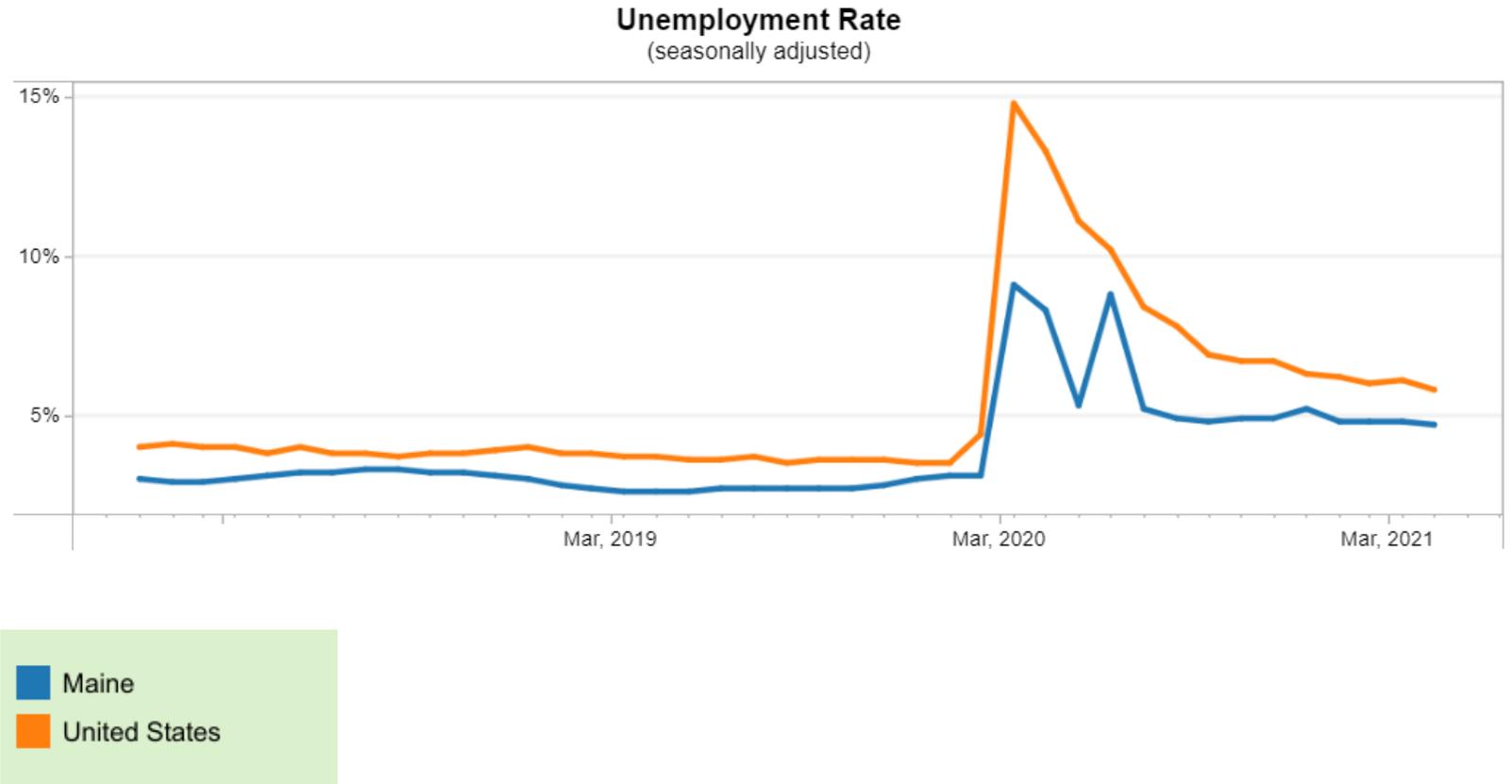
The labor force participation rate has increased but remains 2.5 percentage points lower than before the pandemic

Labor Force Participation Rate
(seasonally adjusted)



The unemployment rate peaked just over 9 percent in April 2020, since decreasing to 4.7 percent as the labor market has recovered

If participation was as high as it was 15 months earlier, the number of unemployed would be 28,500 higher and the unemployment rate would be 8.5 percent.



Section 2:
**New Maine Post-Secondary Outcomes
Report**



Maine Education and Attainment Research Navigation System

MaineEARNs: a data series derived from a variety of sources.

Designed to shed light on the effect on earnings of education program completions, and other economic events, over time.

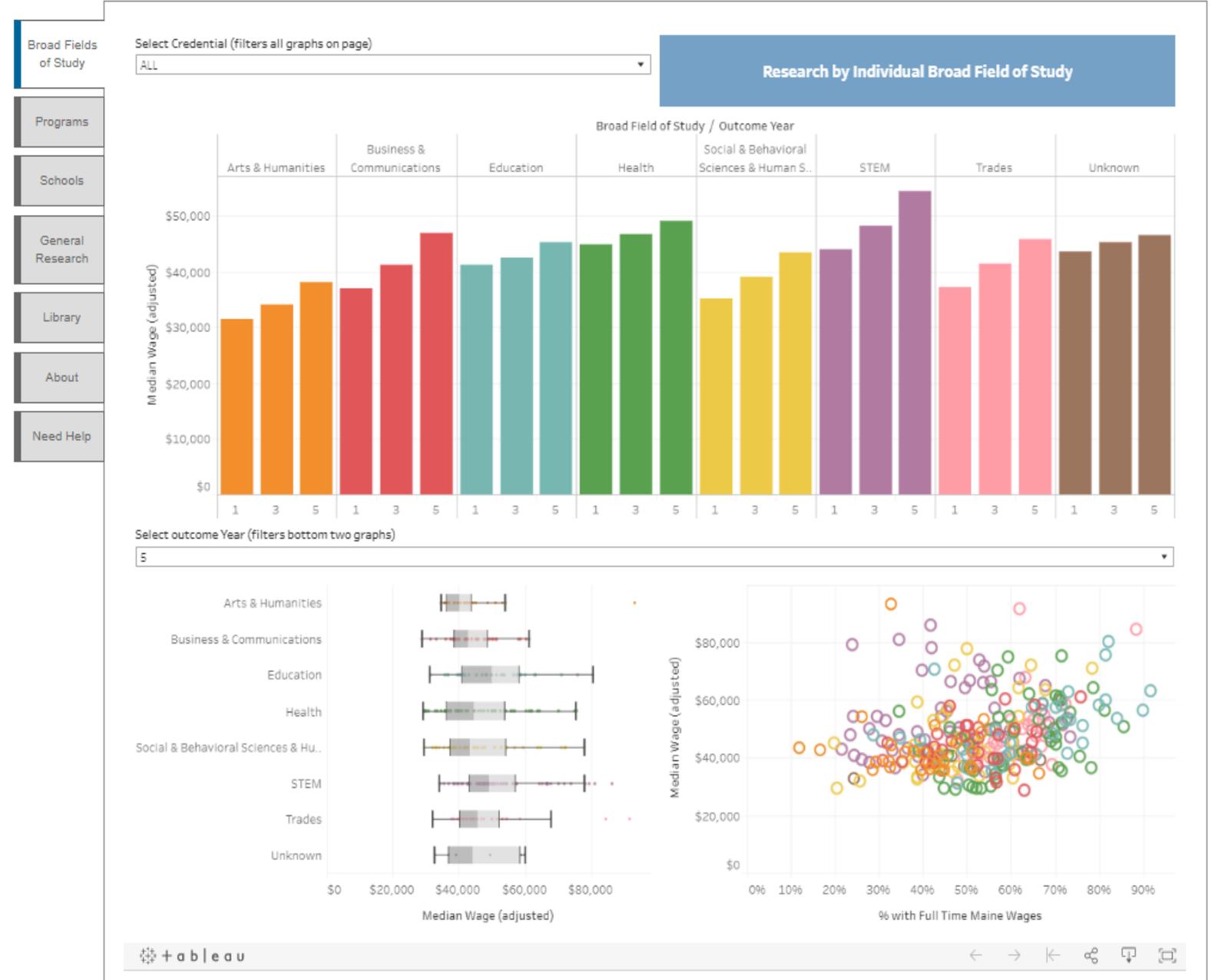
Our [new website](#) was launched earlier this month, providing information on earnings outcomes for graduates of University of Maine System and Maine Community College System schools.

Informs students, parents, job seekers, educators, administrators, policy makers about available educational credentials and training programs

Search by Broad field of Study:

academic programs are grouped into broad categories to allow data users to take top-down view of available credentials in Maine

MaineEARNs By Broad Field of Study



Data users can further drill down on the By Program tab

Start by selecting a broad field or specific area of study

Aggregated wage and employment outcomes over time are presented: number of graduates, percent with Maine wages, median wages and average age at graduation

Broad Fields of Study

Page 1: General Statistics | **Graduates by Industry** | **Program Information**

Broad Field of Study: Area of Study:

Credential: Cohort:

Maine Labor Market Outcomes of Graduates

View the percent working in Maine, percent working in four consecutive quarters in Maine at a full time equivalent wage, and the median adjusted annual wage.

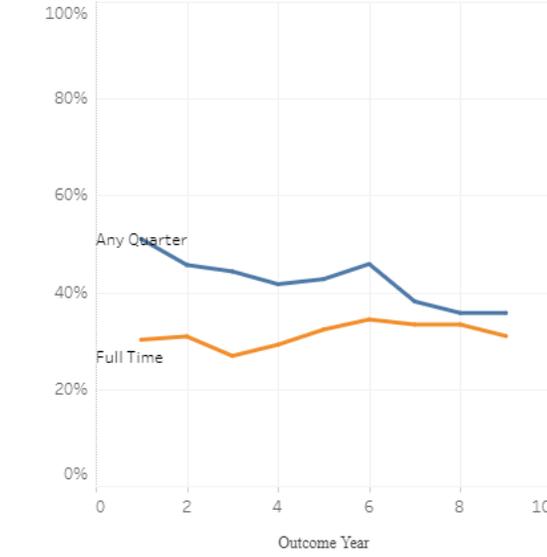


149 Graduates



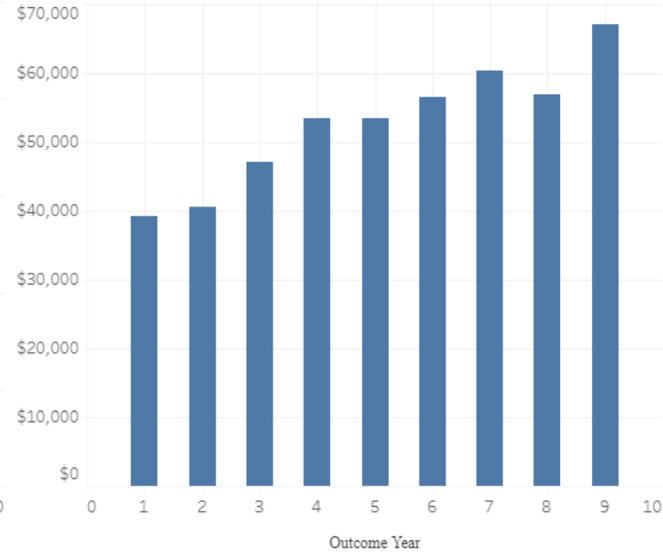
Average age at graduation: 24

Graduates Working in Maine



Outcome Year	Any Quarter (%)	Full Time (%)
1	50	30
2	45	30
3	45	28
4	42	30
5	42	32
6	45	35
7	38	33
8	35	33
9	35	31

Median Adjusted Annual Wage



Outcome Year	Median Adjusted Annual Wage (\$)
1	39,000
2	40,000
3	47,000
4	53,000
5	53,000
6	57,000
7	60,000
8	57,000
9	67,053

Average age at graduation for graduates of *Biochemistry* was 23. In the latest outcome year available, year 9, 31% worked full time for four consecutive quarters in Maine at a median wage of \$67,053. Click the button on top to see which industries graduates of *Biochemistry* are working in, or for more information on the program.

General Statistics **Page 2: Graduates by Industry** **Program Information**

Broad Field of Study: All Programs Area of Study: Business Administration

Credential: ALL Cohort: 2009-2011

Graduates by Industry

MaineEARNs industry data displays the top 5 sectors graduates where information is available. The first graph displays the number of full time earners , while the second shows the number of full time earners.

Graduates Working Full Time

Industry	Period 1	Period 8
Retail Trade	38	20
Manufacturing	22	18
Health Care and Social Assistance	18	19
Educational Services	15	17

Wages by Industry

Outcome Year	Manufacturing	ALL	Other Industry
1	\$60,000	\$43,000	\$33,000
2	\$75,000	\$45,000	\$37,000
3	\$78,000	\$45,000	\$37,000
4	\$72,000	\$53,000	\$44,000
5	\$75,000	\$53,000	\$39,000
6	\$78,000	\$55,000	\$45,000
7	\$75,000	\$58,000	\$50,000
8	\$75,000	\$55,000	\$53,000

Next is the graduates by industry section

See which industries graduates are working in and how this industry composition changes over time

The data display will show the top five industries students enter from the program selected and their wages

Data users can also explore programs by available credentials and see which schools offer that program

The program information pages contains a description of the program, a map of schools where students can obtain a degree in that area of study and a list of credentials students can earn in that field of study.

MaineEARNs By Program

Broad Fields of Study | **Programs** | Schools | General Research | Library | About | Need Help

General Statistics | **Graduates by Industry** | Page 3: Program Information

Area of Study: Nursing

Where can you study this program?

Nursing Description:

A practice-focused program that prepares registered nurses for increasingly complex evidence-based nursing practice, including translating research into practice, evaluating evidence, applying research in decision-making, and implementing viable clinical innovations to change practice. Includes instruction in healthcare delivery systems, health economics and finance, health policy, research methods, translating evidence into practice.

Credentials you can earn in Nursing:

	Number of Graduates (wit..	% Full Time in Maine 3 Years ..	Adjusted Median Wage ..
Associate Degree	374	75%	\$54,870
Associate in Science	1,079	77%	\$56,823
Bachelor Degree	1,511	62%	\$59,762
Diploma	1		
Master's Degree	242	72%	\$91,243
Post Master's	15	93%	\$101,914

Typical occupations, employment and average annual opening students of *Nursing* may enter.

SOC Code	Occupation Name	Typical Education Level	Typical Job Training	2018 Sta... tewide ...	Annu... al To...
29-1141	Registered Nurses	Bachelor's Degree	None	14,858	917
11-9111	Medical and Health Services Managers	Bachelor's Degree	None	2,179	199

+ a b | e a u

MaineEARNs by School

Broad Fields of Study

Programs

Schools

General Research

Library

About

Need Help

MaineEARNs by School

Use filters to select school or program and see chart below to view the resulting labor market information.

School Name

SOUTHERN MAINE COMMUNITY COLLEGE

Credential

Associate in Applied Science

Area of Study

(All)

Select years after graduation when evaluating labor market information (Defaults to 3):

3

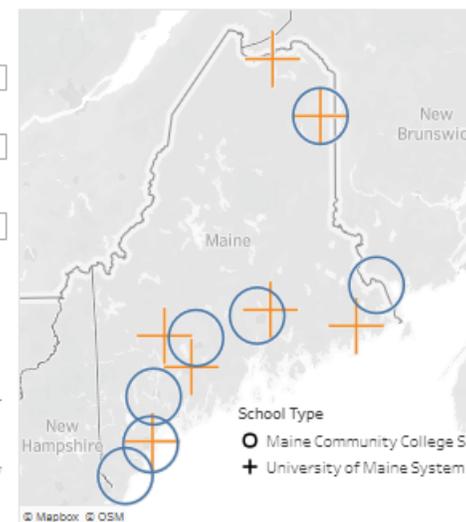
Select the range of wages you would like ... (Defaults to all):

\$23,165

\$65,117

Map Displays a list of Participating MaineEARNs Schools

Hover to view the name of desired school:



		Number of Graduates	% Full Time in Maine 3 Years Aft..	Adjusted Median Wage 3 Years after..
Associate in Applied Science	ALL	2,270	54%	\$30,270
	Criminal Justice	255	56%	\$40,992
	Communications & New Media	205	42%	\$33,216
	Culinary Arts	182	46%	\$30,767
	Fire Science Technology	172	71%	\$51,508
	Human Services	169	44%	\$32,655
	Information Technology	163	65%	\$44,824
	Electrical Engineering Technology	138	62%	\$45,970
	Medical Assisting	137	61%	\$32,386
	Architectural & Engineering Design	128	49%	\$39,697
	Early Childhood Education	108	43%	\$27,598

tableau

Navigation icons: back, forward, search, and other controls.

Or search by School

A great tool for non-traditional students, students interested in a specific institution or substate region and seeking information about available programs

Section 3:
How to Create Custom Reports
By Exploring Occupational Data
and the CWRI Job Outlook



- Unemployment Rate
- Nonfarm Payroll Jobs
- Wages by Occupation
- High-Wage, In-Demand Jobs
- Unemployment Insurance Data
- Industry Data
- Job Outlook
- What Maine Graduates Earn
- Demographics

[Data Release Schedule](#)

Recent Updates

- June 17, 2021 - UI Statewide Claims, Week Ending June 12 ([HTML](#))
- June 7, 2021 - Presentation: Maine's Labor Market Barriers ([PDF](#))
- June 4, 2021 - Selected Regular Unemployment Compensation Program Indicators, April 2021 ([HTML](#))
- May 26, 2021 - Average Weekly Wage, Weekly Benefit Amounts, and Monetary Eligibility Requirements Under the Maine Unemployment Insurance Program, 1938-2021 ([HTML](#))
- May 10, 2021 - Job Outlook to 2028 by Educational Requirement ([HTML](#))
- [\[More Data...\]](#) [\[More Publications...\]](#)

Employment

- Labor Force
- Nonfarm Payroll Jobs
- Job Outlook
- Jobs in Demand
- Maine Employers
- More...

Unemployment

- Maine and U.S. Unemployment Rates
- County, Town, and LMA Unemployment Rates
- Unemployment Insurance
- More...

Income & Wages

- by Occupation
- by Industry
- High-Wage In-Demand Jobs
- Maine Post-Secondary Outcomes Report (MPSO), MaineEARNs
- More...

Research

- County Profiles
- Demographics
- Characteristics of UI Claimants
- Workers with Disabilities
- More...

Resources for

- Job Seekers
- Employers
- Survey Respondents

Job Outlook to 2028 by Educational Requirement

May 10, 2021 - The educational requirements of the workforce are continually evolving. Some jobs require little, and others extensive experience or education, with a whole range in between. As the occupational structure of the labor market changes the educational requirements of the workforce also shift. ([Read more](#))

Select whether interested in Detailed Occupations or major groups

Then type to search for the occupation

Filter Major Groups: Detailed Occupations Only

Select Occupational Group: Sales and Related

Select Occupation (multiple values): Cashiers

Wage Type: Hourly Annual

Geography: Statewide County Balance of State Metropolitan Statistic... Workforce Investmen...

Area Name: (All) Maine

2020 Hourly Occupation Cashiers
Geography: **Statewide**
Occupational Group: **All**

Area Name	Occupation Title	Estimated Employment	Average Wage	25th Percentile	Median Wage	75th Percentile
Maine	Cashiers	12,230	\$13.26	\$12.21	\$12.57	\$13.91

Blank cells indicate that an estimate is not available. Certain estimates are suppressed from publication to meet confidentiality or data quality requirements. Wage estimates above the processing limits of the statistical software are also blank. Only annual wages are provided for teaching occupations and certain others, resulting in blank cells in the hourly wage type.

Note: Data for Maine (Statewide), the metropolitan areas of Bangor, Lewiston-Auburn, Portland-South Portland, Portsmouth NH-ME, Dover-Durham NH-ME, and the Balance of State Areas, are derived from the May 2019 Occupational Employment Statistics survey. County-level estimates are locally developed using the same OES methodology but have not been reviewed by the U.S. Bureau of Labor Statistics.

Source: Maine Department of Labor, Center for Workforce Research and Information.

o-net **Display Summary Report for Occupation - select from table above** (link opens in new window)

Occupation Title	SOC Code	ONET URL
Cashiers	41-2011	http://online.onetcenter.org/link/summary/41-2011.00

Support clients with current employment and wage information for approximately 600,000 Maine jobs

Navigate Maine Occupational data by Major Groups (22 large categories of jobs grouped together, performing similar tasks) or Detailed Occupations (over 600)

Occupational Employment and Wage Statistics

<https://www.maine.gov/labor/cwri/oes1.html>

Occupational employment and wages are available for different geographic areas

Select the geographic area of interest:

Statewide

Workforce Investment Regions

County

Metropolitan Areas

Interactive Occupational Emp & \ x +

maine.gov/labor/cwri/oes1.html

Occupational Employment and Wage Estimates, 2020

Excel Downloadable Files:
Maine Statewide, Metropolitan Areas, Counties, and Nonmetropolitan Balance of State Areas

- [All available statistics, including relative errors, entry-level, experienced, and full percentile distribution wage rates](#)
- [Tableau data table providing employment, mean \(average\), and full percentile distribution wage rates](#)

Load times may vary

How to export charts and tables

Lookup Table Graph Wage Range Descriptions Tips

Filter Major Groups: Detailed Occupations Only

Select Occupational Group: Sales and Related

Wage Type:
 Hourly
 Annual

Geography:
 Statewide
 County
 Balance of State
 Metropolitan Statistic...
 Workforce Investmen...

Area Name:
 (All)
 Maine

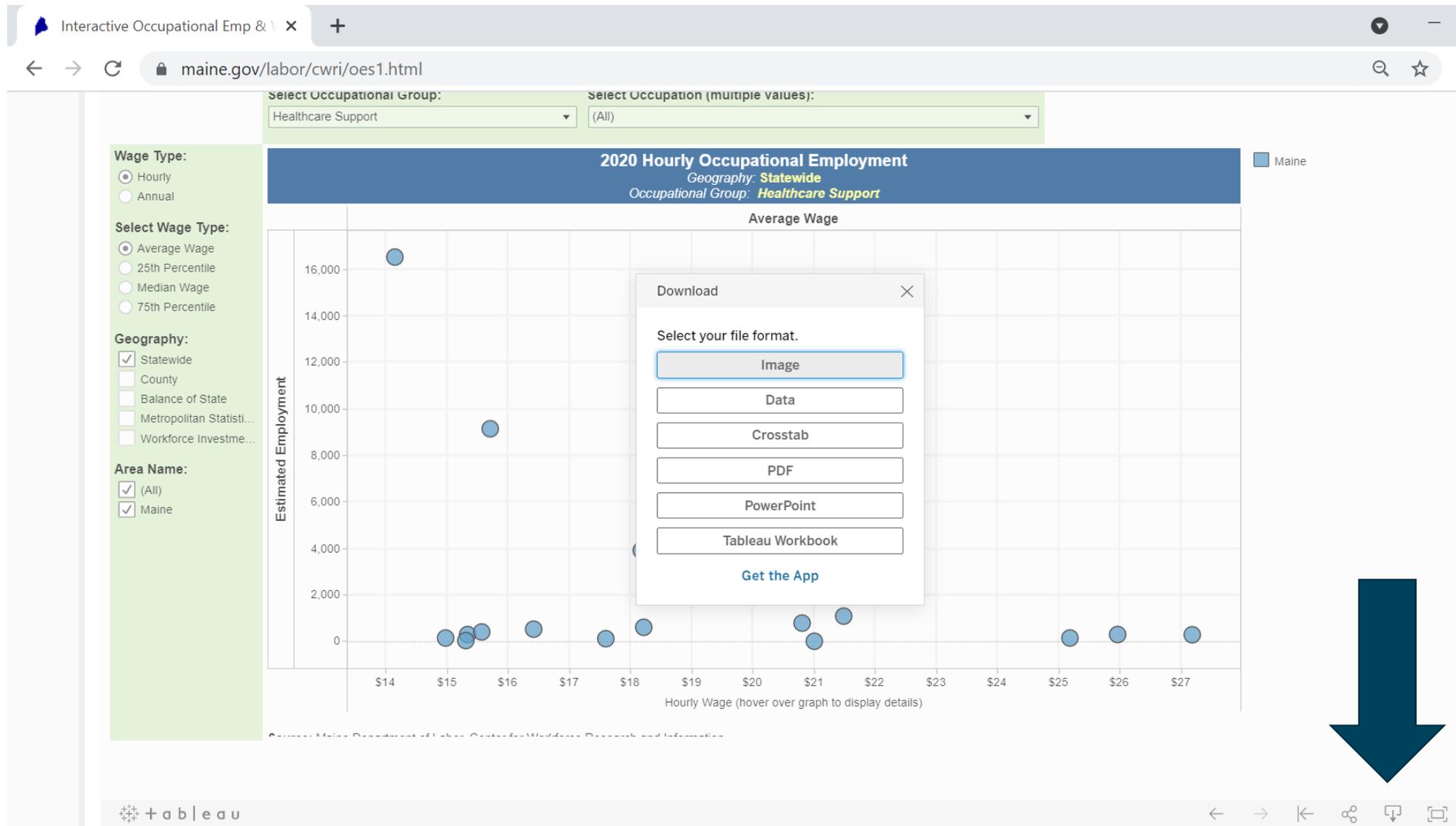
2020 Hourly Occupation
Geography: **Statewide**
Occupational Group: **All**

Area Name	Occupation Title	Estimated Employment
Maine	Cashiers	12,230

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Source: Maine Department of Labor, Center for Workforce Research and Information.



All charts and tables can be downloaded as an image file or in other formats easily sharable with a client, job seeker or can be used in a presentation, report, grant application, ect.

Interactive Occupational Emp & \ x +

maine.gov/labor/cwri/oes1.html

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Center for Workforce Research and Information cwri

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Search CWRI Search

Home → Data → Occupational Employment and Wages → Occupational Employment and Wage Estimates

Occupational Employment and Wage Estimates, 2020

Excel Downloadable Files:
Maine Statewide, Metropolitan Areas, Counties, and Nonmetropolitan Balance of State Areas

- All available statistics, including relative errors, entry-level, experienced, and full percentile distribution wage rates.
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How to export charts and tables

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Filter Major Groups: Detailed Occupations Only

Select Occupational Group: Sales and Related

Wage Type:

- Hourly
- Annual

Geography:

- Statewide
- County

2020 Hourly Occupational Employment
Geography: **Statewide**
Occupational Group: **All**

Area Name	Occupation Title	Estimated Employment	Average Wage	25th Percentile	Median Wage	75th Percentile
Maine	Cashiers	12,230	\$13.26	\$12.21	\$12.57	\$13.91

View More
Interactive Data Tools

Open link in new tab
Open link in new window
Open link in incognito window
Save link as...
Copy link address
Inspect Ctrl+Shift+I

For even more detail, the CWRI website contains downloadable Microsoft Excel Spreadsheets alongside the interactive data visualizations for each data program

Job Outlook

Job Outlook

<https://www.maine.gov/labor/cwri/outlook.html>

CWRI produces a ten-year job outlook

Find which occupations are expected to grow or decline over the next ten years

Many data users focus on occupations with expected **job growth**, missing some crucial dynamics

There is a constant flow of people into and out of the labor force. Opportunity is created when workers retire, move up the career ladder or find opportunities with a different employer

Annual Total Job Openings can be used to capture the dynamics of the labor market

- Limitations: a good measure of opportunity but also points to occupations where turnover is high (which may be a sign of a job that workers are quick to leave)

Occupational Outlook

Among the 690 occupations with employment in Maine

The total number of jobs is expected to increase in 230 and decrease in 460 between 2018 and 2028

62 percent of job openings are expected in occupations in which the number of jobs is projected to decrease

38 percent are expected in occupations in which the number of jobs is projected to increase

- most openings in those occupations will stem from replacement needs rather than from job growth

Job outlook data available for detailed occupations and major occupational groups

Occupations can be filtered based on the education/training typically required of that occupation

Job Outlook

maine.gov/labor/cwri/outlook.html

Data Files:

- [View entire Tableau data set as spreadsheets](#)

How to export charts and tables

Statewide Employment Projections to 2028

Lookup Occupation Growing/Declining Occupations Industry Growing/Declining Industries High-Demand Jobs Definitions

Filter Major Group: (All) Major Groups Only Detailed Occupations Only

Select an Occupational Group: Total, All Occupational Groups

Select a Detailed Occupation: (All)

Education/Training Required: Null

SOC Code: (All)

Employment and Job Openings in Maine in 2018 and Projected 2028
 Occupation Group: **Total, All Occupational Groups**
 Education/Training Required: **All**

Job Title	2018 Employment	2028 Employment	Net Growth	Percent Change	Annual Growth Openings	Annual Exits & Transfers	Annual Total Openings	Annual Openings Rate	Wage Year	Average Wage (Hourly)	Median Wage (Hourly)
Total, All Occupations	678,132	662,358	-15,774	-2.3%	-1,577	76,730	75,153	11.1%	2019	\$23.30	\$18.45
Office and Administrative Support Occupations	95,201	88,070	-7,131	-7.5%	-713	10,819	10,106	10.6%	2019	\$18.51	\$17.54
Sales and Related Occupations	67,424	61,920	-5,504	-8.2%	-550	8,978	8,428	12.5%	2019	\$18.66	\$13.71
Food Preparation and Serving Related Occupations	59,437	61,428	1,991	3.4%	199	10,525	10,724	18.0%	2019	\$13.83	\$12.08
Management Occupations	46,755	46,389	-366	-0.8%	-37	3,938	3,901	8.3%	2019	\$47.07	\$41.51
Healthcare Practitioners and Technical Occupations	43,481	45,587	2,106	4.8%	211	2,434	2,645	6.1%	2019	\$41.16	\$32.29
Education, Training, and Library Occupations	41,807	40,076	-1,731	-4.1%	-173	3,714	3,541	8.5%	2019	\$23.58	\$21.75
Transportation and Material Moving Occupations	39,746	38,401	-1,345	-3.4%	-134	4,764	4,630	11.6%	2019	\$17.09	\$15.56
Production Occupations	37,372	34,387	-2,985	-8.0%	-298	4,168	3,870	10.4%	2019	\$20.08	\$18.68
Personal Care and Service Occupations	34,098	35,413	1,315	3.9%	132	5,052	5,184	15.2%	2019	\$15.92	\$13.41
Construction and Extraction Occupations	33,290	31,795	-1,495	-4.5%	-150	3,566	3,416	10.3%	2019	\$21.71	\$20.91

High Wage In Demand Jobs

High Wage In Demand Jobs

<https://www.maine.gov/labor/cwri/data/oes/hwid.html>

Enables a focused search of the job outlook

- limit search to occupations where wages are above the state median
- and job openings are projected to be high over the next ten years

Display:
 Bar Graph
 Table
 Bubble Graph

Occupation
 (All) ▼

SOC Code
 (All) ▼

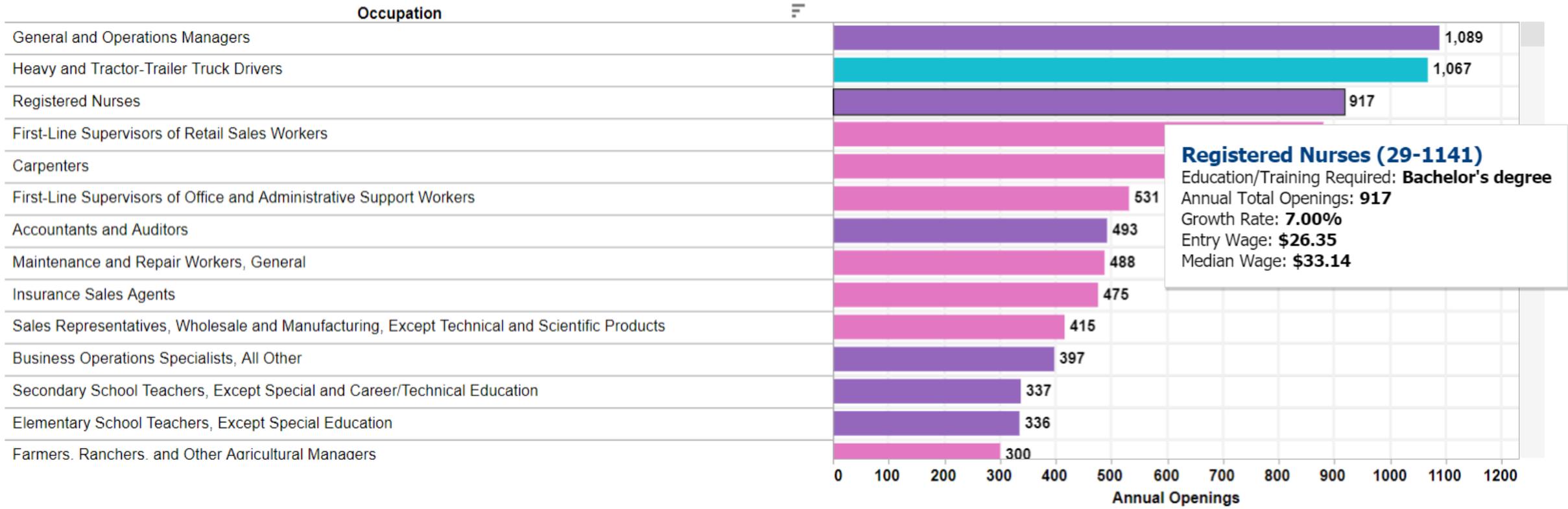
Typical Education Required
 (All) ▼

Typical Education Level Required (Graph Only)

- Associate's degree
- High school diploma or equivalent
- Postsecondary non-degree award
- Bachelor's degree
- Master's degree
- Some college, no degree
- Doctoral or professional degree
- No formal educational credential

Maine High-Wage, In-Demand Jobs by Education

Education Requirement: **All**



Section 4:
Regional Labor Market Information Tools

Regional LMI Tools

County Profiles: contain a synthesis of information including employment, wages, labor force, population, demographics, educational attainment, income and poverty [produced by CWRI, the U.S. Census Bureau, and the U.S. Bureau of Economic Analysis]

<https://www.maine.gov/labor/cwri/county-economic-profiles/countyProfiles.html>

Regional Projections: CWRI recently published 2019-2029 regional projections. Ten-year job outlook for each workforce investment regions:

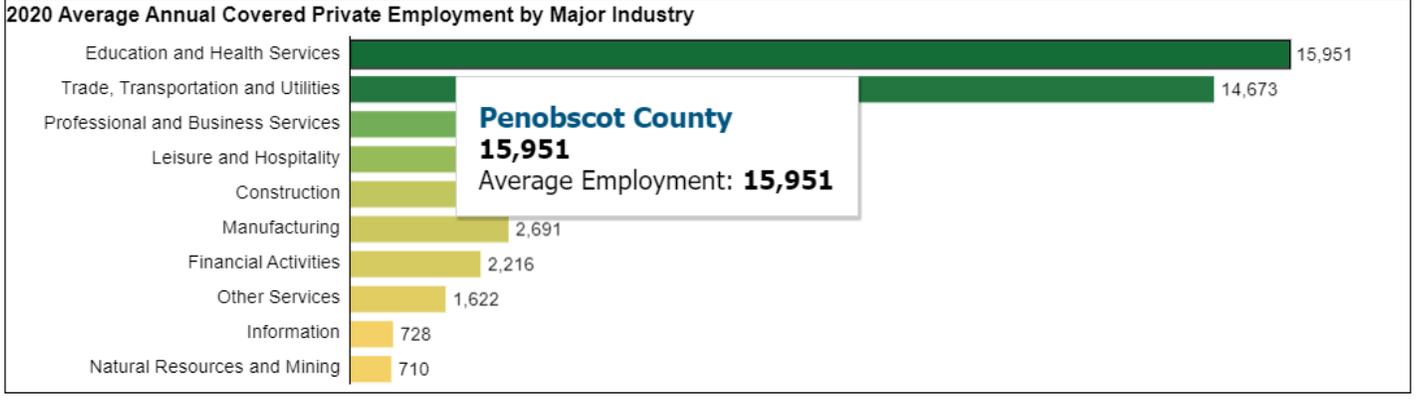
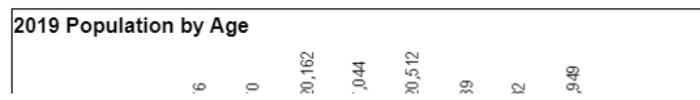
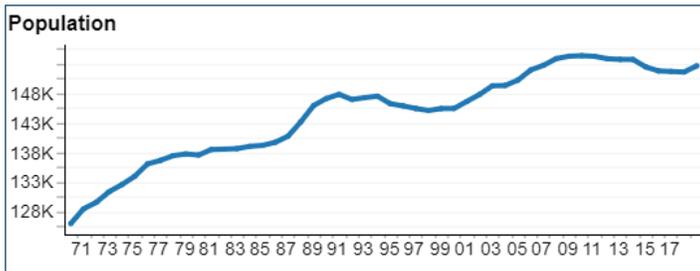
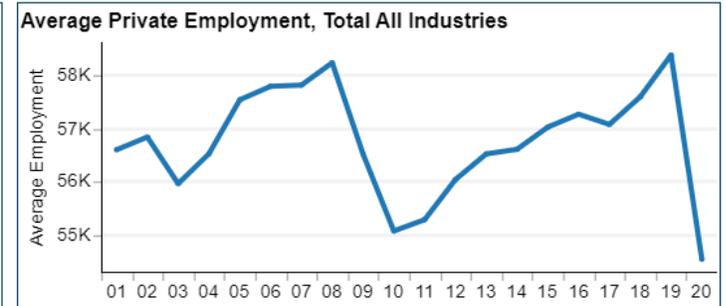
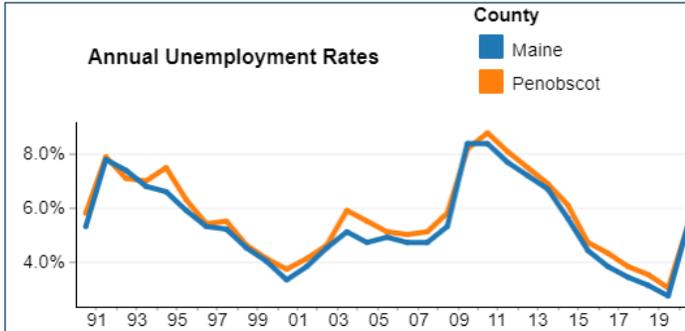
- Coastal Counties
- Central-Western Region
- Northeastern Counties

Projections include annual total job openings by occupation, growing/declining occupations by education level

<https://www.maine.gov/labor/cwri/outlookRegional.html>

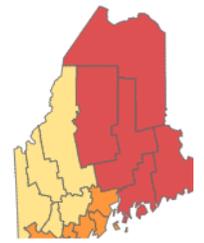
- Androscoggin
- Aroostook
- Cumberland
- Franklin
- Hancock
- Kennebec
- Knox
- Lincoln
- Oxford
- Penobscot
- Piscataquis
- Sagadahoc
- Somerset
- Waldo
- Washington
- York

Penobscot County



Regional Employment Projections to 2029

- Statewide Employment Projections
- Statewide Demographic Projections
- Regional Employment Projections

Region	County		
Coastal Counties	Cumberland, Knox, Lincoln, Sagadahoc, Waldo, York	■	
Central-Western	Androscoggin, Franklin, Kennebec, Oxford, Somerset	■	
Northeastern Counties	Hancock, Penobscot, Piscataquis, Washington, Aroostook	■	

[Lookup](#) |
 [Occupation](#) |
 [Growing/Declining Occupations](#) |
 [Definitions](#)

Display

Graph
 Table

Region

Coastal Counties Region
 Central-Western Region
 Northeast Region

Top

25

Education Requirement:

All
 High School Diploma or Less
 Some College or Associate's Degree
 Bachelor's Degree or Higher

■ Some college, no degree

25 Occupations with the Largest Projected Annual Openings by Region

SOC Code	Job Title	Openings
31-1014	Nursing Assistants	520
43-3031	Bookkeeping, Accounting, and Auditing Clerks	446
53-3032	Heavy and Tractor-Trailer Truck Drivers	377
25-9041	Teacher Assistants	377
31-9092	Medical Assistants	377
49-3023	Automotive Service Technicians and Mechanics	377
39-5012	Hairdressers, Hairstylists, and Cosmetologists	377
43-4151	Order Clerks	377
15-1151	Computer User Support Specialists	106
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	102
23-2011	Paralegals and Legal Assistants	102
33-2011	Firefighters	77

Nursing Assistants (31-1014)

Annual Total Openings: **520**

Education/Training Required: **Postsecondary non-degree award**

Annual Openings Rate: **11.4%**

Median Hourly Wage (2018):

Maine Employer Locator

Employer Locator

<https://www.maine.gov/labor/cwri/employers.html>

Search by business name, industry, occupation or keyword

Search results based on typical staffing patterns (employer industry code)

Filter by Location and distance/radius

<https://www.maine.gov/labor/cwri/employers2.html>

Search by business name, location and/or size

Filter by county/town of public record

and/or Size Class

Lincolnhealth-Miles Campus-Hsp	Damariscotta	250-499
Lincolnhealth-St Andrews	Boothbay Harbor	100-249
Main Street Grocery	Damariscotta	50-99
Maine Marine Resources Dept	West Boothby Hbr	50-99

COMPANY DETAIL (select from table above)

Employer Name Bigelow Laboratory For Ocean	Business Description Laboratories	Year Established 1974	Employer Size 50-99
Address 60 Bigelow Dr	City East Boothbay	Zip Code 04544	
Contact Deborah Bronk	Contact Title President	Phone (207) 315-2567	Toll Free -
Contact Email DBRONK@BIGELOW.ORG		Web Site BIGELOW.ORG	
NAICS 541714	Industry Group Professional and Technical Services	NAICS Title Research and Dev in Biotech (except Nano)	

Hover over a mark on the map to display the company name. Click a mark to view on Google map.



Optional Search Criteria

Employer Size Range

From: To:

County

- (All)
- Androscoggin
- Aroostook
- Cumberland
- Franklin
- Hancock
- Kennebec
- Knox
- Lincoln
- Oxford
- Penobscot
- Piscataquis
- Sagadahoc
- Somerset
- Waldo
- Washington
- York

City

Thank you
Questions?