

DEED's 2014-2024 Employment Outlook (EO) Tool Tutorial

Step 1: Go to <http://www.mn.gov/deed/data/data-tools/employment-outlook/>

Step 2: Click on "Use the data tool" (<https://apps.deed.state.mn.us/lmi/projections/>)

Step 2

Start New Search | Download Data

Long-Term Occupation Projections
Click column headings to sort data.

SOC Code	Occupation	Estimated Employment 2014	Projected Employment 2024	Percent Change 2014 -2024	Numeric Change 2014 -2024	2014 - 2024 Replacement Openings*	2014 - 2024 Total Openings**
250000	Education, Training, and Library Occupations	164,217	168,231	2.4%	4,014	35,750	39,920
410000	Sales and Related Occupations	289,094	299,882	3.7%	10,788	84,840	96,260
230000	Legal Occupations	21,103	22,093	4.6%	990	3,650	4,700
390000	Personal Care and Service Occupations	157,791	179,613	13.8%	21,822	30,630	52,600
000000	Total, All Occupations	3,007,000	3,137,000	4.3%	130,000	696,940	860,360
150000	Computer and Mathematical Occupations	93,503	101,315	8.3%	7,812	13,680	22,430
310000	Healthcare Support Occupations	91,474	107,588	17.6%	16,114	20,060	36,320
470000	Construction and Extraction Occupations	111,861	120,583	7.7%	8,722	17,390	26,130
190000	Life, Physical, and Social Science Occupations	25,954	27,305	5.2%	1,351	7,350	8,740
350000	Food Preparation and Serving Related Occupations	231,542	243,330	5%	11,788	87,390	100,030
510000	Production Occupations	223,616	219,029	-2%	-4,587	49,720	53,990

Step 3: Click on "Start New Search".

Step 4: Select from either "Occupation Projections" or "Industry Projections".

Step 5: Select a geographic area, Click on "Select".

**to select multiple areas, hold down the "Ctrl" key and click*

Step 6: Type a job title into the text box, click on "Enter";

Step 7: Or select an occupational group, click on "View Data of Selected Occupations" or "View Detailed Occupations" or "* View All Data"

Step 6

You have chosen the following Area(s):
Minnesota
Central Minnesota

Enter a job or occupation title
accountants

Or select one or more occupations from the list below
(Multiple selections: Ctrl+Click)

- 00 - Total, All Occupations
- 11 - Management Occupations
- 13 - Business and Financial Operations Occupations
- 15 - Computer and Mathematical Occupations
- 17 - Architecture and Engineering Occupations
- 19 - Life, Physical, and Social Science Occupations
- 21 - Community and Social Service Occupations
- 23 - Legal Occupations
- 25 - Education, Training, and Library Occupations
- 27 - Arts, Design, Entertainment, Sports, and Media Occ

Step 7

Step 4

1. Select a dataset

Occupation Projections
 Long-Term **Step 4**
 Short-Term
 Long-Term High Growth/High Pay
 Long-Term High Demand/High Pay

Industry Projections
 Long-Term **Step 4**
 Short-Term
 Long-Term High Growth/High Pay

2. Select an area:
Area Definitions
(Multiple selections: Ctrl+Click)

- U S
- U S
- Minnesota **Step 5**
- Minnesota Planning area
- Central Minnesota
- Northeast Minnesota
- Northwest Minnesota
- Seven County Mpls-St Paul, MN
- Southeast Minnesota
- Southwest Minnesota

Step 8: Select the occupation(s) you are interested in, click on "View Data of Selected Occupations".

Step 8

You have chosen the following Area(s):
Minnesota
Central Minnesota

Select Specific Occupations
(Multiple selections: Ctrl+Click)

- 131199 - Business Operations Specialists, All Other
- 132000 - Financial Specialists
- 132011 - Accountants and Auditors
- 132021 - Appraisers and Assessors of Real Estate
- 132031 - Budget Analysts
- 132041 - Credit Analysts
- 132051 - Financial Analysts
- 132052 - Personal Financial Advisors
- 132053 - Insurance Underwriters
- 132061 - Financial Examiners

Step 8

Employment Outlook (E) x MNDEED - LMI - Project x

State of Minnesota [US] | https://apps.deed.state.mn.us/lmi/projections/Results.aspx?dataset=1&geog=27010

EMPLOYMENT AND ECONOMIC DEVELOPMENT

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Employment Outlook

Start New Search Download Data

Long-Term Occupation Projections
Click column headings to sort data.

Step 9

SOC Code	Occupation	Estimated Employment 2014	Projected Employment 2024	Percent Change 2014 - 2024	Numeric Change 2014 - 2024	2014 - 2024 Replacement Openings*	2014 - 2024 Total Openings**
132051	Financial Analysts	6,071	6,372	4.9%	301	1,250	1,550
132031	Budget Analysts	323	318	-1.5%	-5	80	80
132041	Credit Analysts	2,762	2,870	3.9%	108	1,200	1,310
132011	Accountants and Auditors	27,477	29,410	7%	1,933	7,330	9,260

Central Minnesota

SOC Code	Occupation	Estimated Employment 2014	Projected Employment 2024	Percent Change 2014 - 2024	Numeric Change 2014 - 2024	2014 - 2024 Replacement Openings*	2014 - 2024 Total Openings**
132051	Financial Analysts	95	102	7.3%	7	20	20
132031	Budget Analysts	49	56	14.2%	7	10	10
132041	Credit Analysts	162	166	2.4%	4	70	70
132011	Accountants and Auditors	1,816	2,040	12.3%	224	480	700

* Replacement Openings: Net replacement openings is an estimate of the need for new work force entrants to replace workers who leave an occupation. It estimates the net movement of 1) experienced workers who leave an occupation and start working in another occupation, stop working altogether, or leave the geographic area, minus 2) experienced workers who move into such an opening. It thus does not represent the total number of jobs to be filled due to the need to replace workers.

** Total Openings: Total job openings represent the sum of employment increases and net replacements. If employment change is negative, job openings due to growth are zero and total job openings equals net replacements.

Step 9: Occupation Projections include “Numeric Change”, which is a count of new jobs created; and “Replacement Openings”, which is a count of existing jobs that will need to be filled due to current workers who start working in another occupation, leave the geographic area, or stop working altogether or retire.

Step 10: “SOC Code” from occupation projections is a hyperlink leading to detailed occupation data from DEED’s [Occupational Employment Statistics](#)

Employment Outlook (E) x Detailed Occupation Data x

State of Minnesota [US] | https://apps.deed.state.mn.us/lmi/projections/detail.asp?code=132011&geog=270100000

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DETAILED OCCUPATION DATA

132011 Accountants and Auditors

Occupational Description: Prepare, analyze, and interpret accounting records to prepare financial statements, give advice or audit and evaluate statements prepared by others, install or advise on systems of recording costs or other financial and budgetary data. Exclude: #1 Examiners and Collectors, and Revenue Agents (132011)

Occupational Employment Statistics (OES) Wage Data
Wages Updated to First Quarter, 2016

Geography	Employment	Emp. %	Mean	Mean \$K	10th	25th	Median	75th	90th
Minnesota	26,510	821	\$34,122hr	\$6,411hr	\$20,832hr	\$25,509hr	\$31,099hr	\$38,859hr	\$50,329hr
US	128,910	7,261	\$28,779hr	\$5,111hr	\$20,220hr	\$25,449hr	\$32,021hr	\$42,730hr	\$55,185hr

* Standard error, a measure of the statistical reliability of the estimate.

Leading Industries for Accountants and Auditors	OES Employment	OES Median Wage	Other Regional Data for Accountants and Auditors	Employment	Median Wage	% Change 2014 - 2024
Professional and Business Services	13,300	\$37,400hr	Minnesota	26,510	\$34,122hr	7.0%
Financial Activities	1,130	\$31,330hr	Minnesota St. Paul-Bloomington, MN-WI MetroSA	21,750	\$32,070hr	6.2%
Trade, Transportation and Utilities	2,290	\$30,900hr	St. Cloud, MN MetroSA	20,900	\$32,200hr	12.3%
Manufacturing	2,290	\$33,400hr	St. Cloud, MN MetroSA	1,740	\$20,130hr	N/A
Education and Health Services	1,000	\$28,500hr	St. Cloud, MN MetroSA	1,300	\$20,360hr	7.9%
Public Administration	1,390	\$31,170hr	St. Cloud, MN MetroSA	1,300	\$27,780hr	4.1%
Governance	800	\$33,800hr	St. Cloud, MN MetroSA	1,240	\$27,060hr	0.8%
Information	640	\$26,770hr	St. Cloud, MN MetroSA	1,070	\$27,600hr	5.6%
Other Services	520	\$29,900hr	St. Cloud, MN MetroSA	960	\$27,780hr	4.1%
Leisure and Hospitality	100	\$23,770hr	St. Cloud, MN MetroSA	800	\$27,060hr	0.8%
Nature, Resources and Mining	60	\$27,540hr	St. Cloud, MN MetroSA	520	\$25,130hr	N/A
Northwest Balance of State			St. Cloud, MN MetroSA	860	\$27,400hr	N/A
Southwest Balance of State			St. Cloud, MN MetroSA	770	\$26,700hr	N/A
Southwest Balance of State			St. Cloud, MN MetroSA	730	\$27,510hr	N/A
Rochester, MN MetroSA			St. Cloud, MN MetroSA	630	\$27,160hr	N/A
St. Cloud, MN MetroSA			St. Cloud, MN MetroSA	610	\$29,100hr	N/A
La Crosse, WI-MN MetroSA			St. Cloud, MN MetroSA	440	\$25,970hr	N/A
Marquette, WI MetroSA			St. Cloud, MN MetroSA	360	\$29,840hr	N/A
St. Cloud, MN MetroSA			St. Cloud, MN MetroSA	360	\$27,060hr	N/A
Northwest Balance of State			St. Cloud, MN MetroSA	140	\$25,190hr	N/A

Step 11: Industry Projections include “Numeric Change”, which is a count of new jobs created.

Employment Outlook (E) x MNDEED - LMI - Project x

State of Minnesota [US] | https://apps.deed.state.mn.us/lmi/projections/Results.aspx?dataset=5&geog=27010

EMPLOYMENT AND ECONOMIC DEVELOPMENT

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Employment Outlook

Start New Search Download Data

Long-Term Industry Projections
Click column headings to sort data.

Step 11

Step 12

NAICS Code	Industry	Estimated Employment 2014	Projected Employment 2024	Percent Change 2014 - 2024	Numeric Change 2014 - 2024
5413	Architectural and Engineering Services	19,641	20,682	5.3%	1,041
5414	Specialized Design Services	1,867	1,898	1.6%	31
5415	Computer Systems Design and Rel Services	33,698	39,965	18.5%	6,267
5417	Scientific Research and Development Svc	8,310	8,492	2.1%	182
5416	Management & Technical Consulting Svc	15,863	18,783	18.4%	2,920
5412	Accounting and Bookkeeping Services	16,321	16,785	2.8%	464
541	Professional and Technical Services	140,893	153,363	8.8%	12,470
5418	Advertising and Related Services	11,747	11,889	1.2%	142
5411	Legal Services	18,165	17,884	-1.5%	-281
5419	Other Professional & Technical Services	15,281	16,995	11.1%	1,704

Central Minnesota

NAICS Code	Industry	Estimated Employment 2014	Projected Employment 2024	Percent Change 2014 - 2024	Numeric Change 2014 - 2024
5413	Architectural and Engineering Services	607	579	-4.6%	-28
5414	Specialized Design Services	66	82	24.2%	16
5415	Computer Systems Design and Rel Services	955	1,039	8.7%	84
5417	Scientific Research and Development Svc	202	255	26.2%	53
5416	Management & Technical Consulting Svc	357	470	31.6%	113
5412	Accounting and Bookkeeping Services	1,455	1,611	10.7%	156
541	Professional and Technical Services	5,913	6,641	12.3%	728

Long Term Industry Projections

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Area Name	NAICS Code	Title	Estimate 2014	Estimate 2024	Projected 2024	Projected 2024	Percent Change	Total Change
1	Minnesota	5417 Scientific	2014	8310	2024	8492	2.1	182
2	Minnesota	5415 Computer	2014	33698	2024	39965	18.5	6267
3	Minnesota	5414 Specialize	2014	1867	2024	1898	1.6	31
4	Minnesota	5413 Architect	2014	19641	2024	20682	5.3	1041
5	Minnesota	5416 Managem	2014	15863	2024	18783	18.4	2920
6	Minnesota	5411 Legal Serv	2014	18165	2024	17884	-1.5	-281
7	Minnesota	5419 Other Pro	2014	15281	2024	16985	11.1	1704
8	Minnesota	5412 Accountin	2014	16321	2024	16785	2.8	464
9	Minnesota	541 Professor	2014	140893	2024	153363	8.8	12470
10	Minnesota	5418 Advertisir	2014	11747	2024	11889	1.2	142
11	Central M	5417 Scientific	2014	202	2024	255	26.2	53
12	Central M	5415 Computer	2014	955	2024	1039	8.7	84
13	Central M	5414 Specialize	2014	66	2024	82	24.2	16
14	Central M	5413 Architect	2014	607	2024	579	-4.6	-28
15	Central M	5416 Managem	2014	357	2024	470	31.6	113
16	Central M	5412 Accountin	2014	1455	2024	1611	10.7	156
17	Central M	5411 Legal Serv	2014	768	2024	769	0.1	1
18	Central M	5419 Other Pro	2014	1165	2024	1444	23.9	279
19	Central M	541 Professor	2014	5913	2024	6641	12.3	728
20	Central M	5418 Advertisir	2014	338	2024	392	15.9	54
21	Central M	5417 Scientific	2014	202	2024	255	26.2	53
22	Central M	5415 Computer	2014	955	2024	1039	8.7	84

Step 12: Click “Download Data” to sort the data in Excel.

For additional help, contact your **DEED Regional Analyst:**
<http://mn.gov/deed/data/regional-lmi/index.jsp>