

DEED's 2016-2026 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** "Use the data tool" (<https://apps.deed.state.mn.us/lmi/projections/>)

Step 3 → Start New Search | Download Data

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

SOC Code	Occupation	Estimated Employment 2016	Projected Employment 2026	Percent Change 2016-2026	Numeric Change 2016-2026	2016-2026 Labor Market Exit/Opening*	2016-2026 Occupational Transfer Openings*	2016-2026 Total Openings**
000000	Total, All Occupations	3,097,300	3,278,900	5.9%	181,600	1,480,027	1,950,251	3,611,878
110000	Management Occupations	236,316	249,678	5.7%	13,362	76,453	108,509	198,324
130000	Business and Financial Operations Occupations	177,222	192,016	8.3%	14,794	54,002	107,892	176,698
150000	Computer and Mathematical Occupations	100,985	110,159	9.1%	9,174	17,971	50,346	77,491
170000	Architecture and Engineering Occupations	55,330	59,926	8.3%	4,596	14,513	26,510	45,619
190000	Life, Physical, and Social Science Occupations	26,096	28,789	10.3%	2,693	6,812	16,646	26,151
210000	Community and Social Service Occupations	63,422	69,174	9.1%	5,752	26,725	44,692	77,169
230000	Legal Occupations	21,531	23,406	8.7%	1,875	5,543	7,927	15,345
250000	Education, Training, and Library Occupations	172,960	184,770	6.8%	11,810	75,921	73,837	161,568
270000	Arts, Design, Entertainment, Sports, and Media Occ.	54,952	56,941	3.6%	1,989	23,067	30,284	55,340

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"

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

Enter a job or occupation title
accountants **Step 6**

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 → View Data of Selected Occupations
Step 7 → View Detailed Occupations
* View All Data

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
- Minnesota Planning area
- Central Minnesota
- Northeast Minnesota
- Northwest Minnesota
- Seven County Mpls-St Paul, MN
- Southeast Minnesota
- Southwest Minnesota

Step 5

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

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

Step 9: Occupation Projections include "Numeric Change", which is a count of new jobs created; "Labor Market Exit Openings", which is a count of existing jobs that will need to be filled due to current workers who stop working altogether or retire; and "Occupational Transfer Openings", which is the projected number of workers transferring to a different job.

Step 10: "SOC Code" from occupation projections is a hyperlink leading to detailed occupation data from DEED's Occupational Employment Statistics

Employment Outlook Step 9

Start New Search | Download Data

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

Minnesota

SOC Code	Occupation	Estimated Employment 2016	Projected Employment 2026	Percent Change 2016 - 2026	Numeric Change 2016 - 2026	2016 - 2026 Labor Market Exit Openings*	2016 - 2026 Occupational Transfer Openings*	2016 - 2026 Total Openings**
132051	Financial Analysts	6,681	7,327	9.7%	646	1,395	4,401	6,442
132031	Budget Analysts	440	472	7.3%	32	123	209	364
132011	Accountants and Auditors	30,134	32,963	9.4%	2,829	9,313	18,153	30,295
132041	Credit Analysts	3,542	3,772	6.5%	230	841	2,099	3,170

Central Minnesota

SOC Code	Occupation	Estimated Employment 2016	Projected Employment 2026	Percent Change 2016 - 2026	Numeric Change 2016 - 2026	2016 - 2026 Labor Market Exit Openings*	2016 - 2026 Occupational Transfer Openings*	2016 - 2026 Total Openings**
132051	Financial Analysts	152	162	6.6%	10	31	99	140
132031	Budget Analysts	49	53	8.2%	4	14	23	41
132011	Accountants and Auditors	1,681	1,997	18.8%	316	543	1,058	1,917
132041	Credit Analysts	199	209	5%	10	47	117	174

* Labor Market Exit Openings are the projected number of workers leaving an occupation and exiting the labor market entirely (most labor force exits are related to workers retiring). Occupational transfers are the projected number of workers permanently leaving an occupation and transferring to a different occupation.
** Total Openings represent the sum of job openings from employment growth, labor force exits, and occupational transfers.

Step 9: Occupation Projections include "Numeric Change", which is a count of new jobs created; "Labor Market Exit Openings", which is a count of existing jobs that will need to be filled due to current workers who stop working altogether or retire; and "Occupational Transfer Openings", which is the projected number of workers transferring to a different job.

Step 10: "SOC Code" from occupation projections is a hyperlink leading to detailed occupation data from DEED's Occupational Employment Statistics

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

DETAILED OCCUPATION DATA

132011 Accountants and Auditors

Occupational Description: Examine, 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. Excludes Tax Examiners and Collectors, and Revenue Agents (13-2061).

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

Geography	Employment	Hourly Wage	Mean	50th	25th	Median	75th	90th
Minnesota	26,500	\$21.83	\$24.12	\$18.41	\$20.83	\$25.06	\$31.09	\$38.81
U.S.	1,226,910	7.36	\$26.77	\$11.11	\$22.22	\$25.44	\$32.62	\$43.73

Percentiles

Industry	OES Employment	OES Median Wage	Other Regional Data For Accountants and Auditors	OES Employment	Median Wage	Projections % Change 2016 - 2024
Professional and Business Services	13,380	\$31.40	Minnesota: Paul Bunyon, MN vs Minnesota	25,500	\$31.08	7.0%
Financial Activities	3,130	\$31.23	Minnesota: St. Paul, MN vs Minnesota	21,750	\$32.07	N/A
Trade, Transportation and Utilities	2,290	\$33.80	State: County, WI vs St. Paul, MN	20,910	\$32.25	6.7%
Manufacturing	2,390	\$33.40	Central Minnesota	1,740	\$25.13	12.3%
Education and Health Services	1,690	\$23.60	Northwest Minnesota	1,320	\$26.58	N/A
Public Administration	1,360	\$31.17	Southwest Minnesota	1,240	\$27.68	7.0%
Construction	820	\$33.80	Southwest Minnesota	1,390	\$27.60	5.6%
Information	640	\$27.77	Northwest Minnesota	960	\$27.78	4.1%
Other Services	520	\$23.60	Northwest Minnesota	430	\$27.60	0.6%
Leisure and Hospitality	370	\$23.77	Southwest Minnesota	320	\$25.13	N/A
Natural Resources and Mining	90	\$27.54	Northwest Minnesota	480	\$27.48	N/A
			Central Minnesota	770	\$26.25	N/A
			Southwest Minnesota	730	\$27.91	N/A
			Northwest Minnesota	650	\$27.16	N/A
			Ill. County, MN vs Minnesota	910	\$29.10	N/A
			La Crosse, WI vs Minnesota	440	\$26.97	N/A
			Madison, WI vs Minnesota	360	\$23.24	N/A
			Grand Forks, ND vs Minnesota	330	\$27.60	N/A
			Northwest Minnesota	140	\$25.18	N/A

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

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

Employment Outlook Step 11

Start New Search | Download Data

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

Minnesota

NAICS Code	Industry	Estimated Employment 2016	Projected Employment 2026	Percent Change 2016 - 2026	Numeric Change 2016 - 2026
5419	Other Professional & Technical Services	15,156	18,400	21.4%	3,244
5414	Specialized Design Services	1,941	2,610	3.6%	69
5418	Advertising and Related Services	11,784	12,100	2.7%	316
5415	Computer Systems Design and Rel Services	37,245	42,300	13.6%	5,055
5416	Management & Technical Consulting Svc	27,183	35,000	28.8%	7,817
5413	Architectural and Engineering Services	21,738	24,800	14.1%	3,062
5417	Scientific Research and Development Svc	7,865	8,800	11.9%	935
5412	Accounting and Bookkeeping Services	17,119	18,600	8.7%	1,481

Central Minnesota

NAICS Code	Industry	Estimated Employment 2016	Projected Employment 2026	Percent Change 2016 - 2026	Numeric Change 2016 - 2026
5419	Other Professional & Technical Services	1,222	1,601	31%	379
5414	Specialized Design Services	65	68	4.6%	3
5418	Advertising and Related Services	484	395	-18.4%	-89
5415	Computer Systems Design and Rel Services	1,029	1,184	15.1%	155
5416	Management & Technical Consulting Svc	401	455	13.5%	54
5413	Architectural and Engineering Services	1,085	1,400	29%	315
5417	Scientific Research and Development Svc	192	264	37.5%	72
5412	Accounting and Bookkeeping Services	1,730	2,288	32.3%	558

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>

Excel spreadsheet showing industry data with columns for Area Name, NAICS Code, Title, Estimate Year, Employment, Projected Year, Employment, Percent Change, and Total Change.

Area Name	NAICS Code	Title	Estimate Year	Employment	Projected Year	Employment	Percent Change	Total Change
1	Minnesota	5419 Other Professional & Technical Services	2016	15,156	2026	18,400	21.4	3,244
2	Minnesota	5417 Scientific Research and Development Svc	2016	7,865	2026	8,800	11.9	935
3	Minnesota	5412 Accounting and Bookkeeping Services	2016	17,119	2026	18,600	8.7	1,481
4	Minnesota	5415 Computer Systems Design and Rel Services	2016	37,245	2026	42,300	13.6	5,055
5	Minnesota	5414 Specialized Design Services	2016	1,941	2026	2,010	3.6	69
6	Minnesota	5413 Architectural and Engineering Services	2016	21,738	2026	24,800	14.1	3,062
7	Minnesota	5418 Advertising and Related Services	2016	11,784	2026	12,100	2.7	316
8	Minnesota	5416 Management & Technical Consulting Svc	2016	27,183	2026	35,000	28.8	7,817
9	Minnesota	5417 Scientific Research and Development Svc	2016	192	2026	264	37.5	72
10	Central Minnesota	5419 Other Professional & Technical Services	2016	1,222	2026	1,601	31	379
11	Central Minnesota	5412 Accounting and Bookkeeping Services	2016	1,730	2026	2,288	32.3	558
12	Central Minnesota	5415 Computer Systems Design and Rel Services	2016	1,029	2026	1,184	15.1	155
13	Central Minnesota	5414 Specialized Design Services	2016	65	2026	68	4.6	3
14	Central Minnesota	5413 Architectural and Engineering Services	2016	1,085	2026	1,400	29	315
15	Central Minnesota	5418 Advertising and Related Services	2016	484	2026	395	-18.4	-89
16	Central Minnesota	5416 Management & Technical Consulting Svc	2016	401	2026	455	13.5	54
17	Central Minnesota	5417 Scientific Research and Development Svc	2016	192	2026	264	37.5	72
18	Central Minnesota	5412 Accounting and Bookkeeping Services	2016	1,730	2026	2,288	32.3	558