

Nontraditional Occupations for Women in Minnesota with Projected High Demand/High Pay (2018-2028)

SOC Code	Occupational Title	Total Employment	Median Hourly Wage	Median Annual Wage	2018-2028 Growth Rate	2018-2028 Net Project Growth	2018-2028 Labor Market Exit Openings	Current Demand Indicator	Education Requirements	Training Requirements
519162	Computer Numerically Controlled Tool Programmers	1,270	\$31.66	\$65,841	22.6	160	226	Four Stars	Postsecondary non-degree award	Long term on the job training
499052	Telecommunications Line Installers and Repairers	1,970	\$23.79	\$49,490	16.3	327	505	Three Stars	High school diploma or equivalent	Short term on the job training
537081	Refuse and Recyclable Material Collectors	2,320	\$20.09	\$41,789	16.1	282	1,034	Three Stars	High school diploma or equivalent	Short term on the job training
473012	Helpers--Carpenters	690	\$18.00	\$37,433	14.3	104	257	Three Stars	High school diploma or equivalent	Short term on the job training
472073	Operating Engineers and Other Construction Equipment Operators	9,270	\$34.63	\$72,018	13.1	1,287	3,566	Five Stars	High school diploma or equivalent	Short term on the job training
472152	Plumbers, Pipefitters, and Steamfitters	10,480	\$38.68	\$80,439	13.1	1,269	3,017	Five Stars	High school diploma or equivalent	Short term on the job training
472051	Cement Masons and Concrete Finishers	3,950	\$26.93	\$56,011	13.0	598	1,430	Four Stars	High school diploma or equivalent	Short term on the job training
473011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	270	\$28.08	\$58,410	12.6	26	72	Four Stars	High school diploma or equivalent	None
291021	Dentists, General	1,690	\$98.42	\$204,701	11.7	242	471	Three Stars	Graduate or professional degree	Short term on the job training
472021	Brickmasons and Blockmasons	1,650	\$35.37	\$73,569	11.3	231	619	Three Stars	High school diploma or equivalent	Long term on the job training
499021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	3,730	\$29.27	\$60,879	10.7	448	1,202	Five Stars	Postsecondary non-degree award	Unavailable
472061	Construction Laborers	12,120	\$23.73	\$49,366	10.6	1,932	6,401	Five Stars	High school diploma or equivalent	Short term on the job training
472181	Roofers	1,770	\$27.63	\$57,481	10.4	223	575	Three Stars	High school diploma or equivalent	Long term on the job training
373013	Tree Trimmers and Pruners	410	\$23.16	\$48,179	9.5	73	330	Four Stars	High school diploma or equivalent	Short term on the job training
472111	Electricians	9,840	\$33.36	\$69,394	9.5	1,090	3,701	Five Stars	Postsecondary non-degree award	Long term on the job training
172051	Civil Engineers	5,350	\$44.79	\$93,163	8.8	507	1,221	Five Stars	Bachelor's degree	Long term on the job training
172112	Industrial Engineers	10,290	\$44.76	\$93,101	8.8	861	2,056	Five Stars	Bachelor's degree	Short term on the job training
119021	Construction Managers	6,090	\$45.63	\$94,924	8.3	651	1,714	Five Stars	Bachelor's degree	Long term on the job training
373011	Landscaping and Groundskeeping Workers	14,010	\$16.78	\$34,899	8.2	1,600	8,318	Five Stars	High school diploma or equivalent	None
499062	Medical Equipment Repairers	1,290	\$24.47	\$50,905	8.1	69	383	Four Stars	Associate's degree	Short term on the job training
172041	Chemical Engineers	220	\$52.93	\$110,110	7.5	16	46	Three Stars	Bachelor's degree	Short term on the job training
131051	Cost Estimators	3,880	\$31.59	\$65,727	7.3	328	1,185	Four Stars	High school diploma or equivalent	Long term on the job training
472031	Carpenters	16,890	\$25.88	\$53,827	7.1	1,703	7,751	Four Stars	High school diploma or equivalent	Unavailable
537021	Crane and Tower Operators	540	\$26.72	\$55,582	7.1	34	157	Three Stars	High school diploma or equivalent	Short term on the job training
173022	Civil Engineering Technologists and Technicians	2,520	\$33.59	\$69,859	6.8	149	748	Five Stars	Associate's degree	Long term on the job training
533032	Heavy and Tractor-Trailer Truck Drivers	34,540	\$24.64	\$51,248	6.6	2,535	16,449	Five Stars	High school diploma or equivalent	Short term on the job training
537051	Industrial Truck and Tractor Operators	9,160	\$21.08	\$43,848	6.6	431	2,034	Four Stars	High school diploma or equivalent	Short term on the job training
493031	Bus and Truck Mechanics and Diesel Engine Specialists	6,850	\$25.91	\$53,898	6.4	476	2,121	Five Stars	High school diploma or equivalent	Long term on the job training
499041	Industrial Machinery Mechanics	7,970	\$29.52	\$61,412	6.4	439	2,211	Four Stars	Postsecondary non-degree award	Long term on the job training
171012	Landscape Architects	520	\$38.43	\$79,950	5.9	16	67	Three Stars	Bachelor's degree	Long term on the job training
113071	Transportation, Storage, and Distribution Managers	2,750	\$47.26	\$98,302	5.5	133	538	Four Stars	Bachelor's degree	Short term on the job training
474011	Construction and Building Inspectors	1,330	\$36.95	\$76,856	5.5	68	693	Three Stars	High school diploma or equivalent	Short term on the job training
514041	Machinists	10,420	\$25.73	\$53,505	5.5	736	4,556	Four Stars	Postsecondary non-degree award	Short term on the job training
533033	Light Truck Drivers	14,850	\$19.54	\$40,647	5.5	988	7,555	Five Stars	High school diploma or equivalent	Short term on the job training
537062	Laborers and Freight, Stock, and Material Movers, Hand	40,530	\$17.73	\$36,890	5.0	2,218	20,516	Five Stars	High school diploma or equivalent	Short term on the job training
172071	Electrical Engineers	3,900	\$49.26	\$102,458	4.8	192	820	Five Stars	Bachelor's degree	Short term on the job training
172141	Mechanical Engineers	7,600	\$40.67	\$84,582	4.8	405	1,617	Five Stars	Bachelor's degree	Short term on the job training
514121	Welders, Cutters, Solderers, and Brazers	9,380	\$23.21	\$48,287	4.6	460	2,595	Five Stars	High school diploma or equivalent	Unavailable
474051	Highway Maintenance Workers	4,650	\$26.92	\$55,991	4.3	238	2,267	Five Stars	High school diploma or equivalent	Short term on the job training
473013	Helpers--Electricians	110	\$22.47	\$46,732	4.2	6	48	Three Stars	High school diploma or equivalent	Long term on the job training
339032	Security Guards	10,520	\$18.20	\$37,862	4.1	458	5,851	Three Stars	High school diploma or equivalent	Short term on the job training
333021	Detectives and Criminal Investigators	1,280	\$38.61	\$80,302	3.9	65	361	Three Stars	Bachelor's degree	Long term on the job training
499071	Maintenance and Repair Workers, General	21,150	\$23.57	\$49,009	3.9	1,042	9,483	Five Stars	High school diploma or equivalent	Short term on the job training
493042	Mobile Heavy Equipment Mechanics, Except Engines	3,140	\$30.62	\$63,698	3.5	114	1,047	Four Stars	Postsecondary non-degree award	Short term on the job training
492022	Telecommunications Equipment Installers and Repairers, Except Line Installers	3,330	\$24.34	\$50,618	3.4	127	1,059	Three Stars	High school diploma or equivalent	Short term on the job training
172111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	420	\$44.91	\$93,428	3.3	13	82	Four Stars	Bachelor's degree	Moderate term on the job training
173025	Environmental Engineering Technologists and Technicians	400	\$24.94	\$51,861	3.3	25	257	Four Stars	Associate's degree	Short term on the job training
291011	Chiropractors	1,370	\$45.15	\$93,918	3.2	44	244	Three Stars	Graduate or professional degree	Short term on the job training
518021	Stationary Engineers and Boiler Operators	1,490	\$30.97	\$64,403	3.2	41	423	Four Stars	High school diploma or equivalent	Moderate term on the job training
519023	Mixing and Blending Machine Setters, Operators, and Tenders	1,570	\$22.19	\$46,140	3.2	82	779	Three Stars	High school diploma or equivalent	Short term on the job training
173027	Mechanical Engineering Technologists and Technicians	1,260	\$30.44	\$63,299	2.6	36	467	Four Stars	Associate's degree	Moderate term on the job training
513023	Slaughterers and Meat Packers	5,590	\$16.49	\$34,297	2.4	100	1,742	Four Stars	High school diploma or equivalent	Long term on the job training
173024	Electro-Mechanical and Mechatronics Technologists and Technicians	460	\$26.89	\$55,942	2.3	12	177	Four Stars	Associate's degree	Long term on the job training
173026	Industrial Engineering Technologists and Technicians	3,840	\$27.35	\$56,902	2.3	77	1,133	Five Stars	Associate's degree	Moderate term on the job training
513022	Meat, Poultry, and Fish Cutters and Trimmers	4,090	\$16.31	\$33,937	2.2	114	2,145	Three Stars	High school diploma or equivalent	Short term on the job training
113051	Industrial Production Managers	5,300	\$51.07	\$106,221	1.9	100	1,162	Five Stars	Bachelor's degree	Short term on the job training
493053	Outdoor Power Equipment and Other Small Engine Mechanics	830	\$19.51	\$40,572	1.5	9	238	Three Stars	Postsecondary non-degree award	Short term on the job training
435021	Couriers and Messengers	970	\$17.30	\$35,979	1.4	21	585	Three Stars	High school diploma or equivalent	Short term on the job training
373012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	1,000	\$17.62	\$36,650	-0.2	-1	266	Three Stars	High school diploma or equivalent	Short term on the job training
493023	Automotive Service Technicians and Mechanics	11,690	\$22.23	\$46,241	-0.3	-46	4,005	Five Stars	Postsecondary non-degree award	Unavailable
493041	Farm Equipment Mechanics and Service Technicians	1,720	\$24.22	\$50,382	-0.5	-9	529	Three Stars	Postsecondary non-degree award	Long term on the job training

172072	Electronics Engineers, Except Computer	1,140	\$49.20	\$102,325	-1.2	-13	215	Four Stars	Bachelor's degree	Short term on the job training
173023	Electrical and Electronic Engineering Technologists and Technicians	1,990	\$31.31	\$65,125	-1.4	-27	641	Five Stars	Associate's degree	Unavallable
519032	Cutting and Slicing Machine Setters, Operators, and Tenders	1,700	\$21.49	\$44,702	-1.9	-37	805	Four Stars	High school diploma or equivalent	Short term on the job training
412022	Parts Salespersons	4,530	\$18.52	\$38,538	-2.4	-130	2,185	Three Stars	High school diploma or equivalent	Short term on the job training
514111	Tool and Die Makers	1,930	\$28.82	\$59,955	-6.2	-112	639	Three Stars	Postsecondary non-degree award	Short term on the job training
514122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	1,270	\$23.94	\$49,807	-6.2	-52	209	Three Stars	High school diploma or equivalent	Short term on the job training
519161	Computer Numerically Controlled Tool Operators	5,310	\$22.53	\$46,849	-6.9	-233	929	Four Stars	High school diploma or equivalent	Short term on the job training
151251	Computer Programmers	3,330	\$44.36	\$92,275	-8.9	-437	753	Three Stars	Bachelor's degree	Short term on the job training
172061	Computer Hardware Engineers	570	\$53.52	\$111,334	-11.1	-150	247	Four Stars	Bachelor's degree	Long term on the job training

The US Department of Labor defines non-traditional careers for women as one in which 25% or fewer of those employed in the field are women.
Source: MN DEED Employment Outlook, MN DEED Occupational Employment Statistics, Bureau of Labor Statistics Current Population Survey (CPS)