

Northeast Minnesota Long-Term Occupation Projections April 25, 2011

Northeast Minnesota by Broad Category

<u>SOC Code</u>	<u>Occupation</u>	<u>Estimated Employment 2009</u>	<u>Projected Employment 2019</u>	<u>Percent Change 2009 - 2019</u>	<u>Numeric Change 2009 - 2019</u>	<u>2009 - 2019 Replacement Openings*</u>	<u>2009 - 2019 Total Openings**</u>
<u>000000</u>	Total, All Occupations	154,500	168,297	8.9%	13,797	35,590	49,387
<u>110000</u>	Management Occupations	7,187	7,454	3.7%	267	1,480	1,747
<u>130000</u>	Business and Financial Operations Occupations	7,004	7,831	11.8%	827	1,480	2,307
<u>150000</u>	Computer and Mathematical Occupations	1,785	2,077	16.4%	292	330	622
<u>170000</u>	Architecture and Engineering Occupations	1,934	2,126	9.9%	192	390	582
<u>230000</u>	Legal Occupations	803	884	10.1%	81	140	221
<u>250000</u>	Education, Training, and Library Occupations	8,400	8,836	5.2%	436	1,870	2,306
<u>290000</u>	Healthcare Practitioners and Technical Occupations	10,437	12,507	19.8%	2,070	2,190	4,260
<u>310000</u>	Healthcare Support Occupations	8,415	10,940	30%	2,525	890	3,415
<u>350000</u>	Food Preparation and Serving Related Occupations	14,074	14,759	4.9%	685	4,810	5,495
<u>390000</u>	Personal Care and Service Occupations	6,851	8,226	20.1%	1,375	1,670	3,045
<u>410000</u>	Sales and Related Occupations	14,626	15,172	3.7%	546	4,590	5,136
<u>430000</u>	Office and Administrative Support Occupations	21,242	22,422	5.6%	1,180	4,530	5,710
<u>470000</u>	Construction and	7,920	8,588	8.4%	668	1,470	2,138

	Extraction Occupations						
490000	Installation, Maintenance, and Repair Occupations	7,340	7,979	8.7%	639	1,520	2,159
510000	Production Occupations	7,724	7,785	0.8%	61	1,540	1,601
530000	Transportation and Material Moving Occupations	7,959	8,048	1.1%	89	1,890	1,979

Northeast Minnesota Selected Specific Occupations

<u>SOC Code</u>	<u>Occupation</u>	<u>Estimated Employment 2009</u>	<u>Projected Employment 2019</u>	<u>Percent Change 2009 - 2019</u>	<u>Numeric Change 2009 - 2019</u>	<u>2009 - 2019 Replacement Openings*</u>	<u>2009 - 2019 Total Openings**</u>
151021	Computer Programmers	137	127	-7.3%	-10	3	3
151031	Computer Software Engineers, Applications	295	371	25.8%	76	30	106
151032	Computer Software Engineers, Systems Software	90	113	25.6%	23	10	33
151041	Computer Support Specialists	342	372	8.8%	30	100	130
151051	Computer Systems Analysts	223	259	16.1%	36	50	86
151061	Database Administrators	46	54	17.4%	8	10	18
151071	Network and Computer Systems Administrators	321	381	18.7%	60	50	110
151081	Network Systems and Data Communications Analysts	117	161	37.6%	44	20	64
151099	Computer Specialists, All Other	169	183	8.3%	14	40	54
171011	Architects, Except Landscape and Naval	89	104	16.9%	15	20	35
172041	Chemical Engineers	11	14	27.3%	3		3
172051	Civil Engineers	183	221	20.8%	38	30	68
172071	Electrical Engineers	151	157	4%	6	40	46

172081	Environmental Engineers	37	47	27%	10	10	20
172112	Industrial Engineers	123	134	8.9%	11	30	41
172141	Mechanical Engineers	120	131	9.2%	11	30	41
173013	Mechanical Drafters	72	74	2.8%	2	20	22
173022	Civil Engineering Technicians	251	276	10%	25	50	75
173023	Electrical and Electronic Engineering Technicians	199	201	1%	2	40	42
173025	Environmental Engineering Technicians	43	53	23.3%	10	10	20
173026	Industrial Engineering Technicians	43	45	4.7%	2	10	12
173027	Mechanical Engineering Technicians	65	60	-7.7%	-5	1	1
231011	Lawyers	557	616	10.6%	59	100	159
291062	Family and General Practitioners	265	320	20.8%	55	50	105
291063	Internists, General	58	69	19%	11	10	21
291064	Obstetricians and Gynecologists	58	72	24.1%	14	10	24
291065	Pediatricians, General	33	39	18.2%	6	10	16
291066	Psychiatrists	14	18	28.6%	4		4
291067	Surgeons	69	82	18.8%	13	10	23
291069	Physicians and Surgeons, All Other	268	324	20.9%	56	50	106
291071	Physician Assistants	60	76	26.7%	16	10	26
291111	Registered Nurses	3,963	4,925	24.3%	962	690	1,652
292011	Medical and Clinical Laboratory Technologists	169	175	3.6%	6	30	36
292012	Medical and Clinical Laboratory Technicians	268	281	4.9%	13	50	63
292052	Pharmacy Technicians	465	597	28.4%	132	120	252
292061	Licensed Practical and Licensed Vocational Nurses	1,573	1,850	17.6%	277	490	767

292071	Medical Records and Health Information Technicians	258	300	16.3%	42	50	92
292099	Health Technologists and Technicians, All Other	116	132	13.8%	16	20	36
311011	Home Health Aides	3,897	5,645	44.9%	1,748	390	2,138
311012	Nursing Aides, Orderlies, and Attendants	2,755	3,241	17.6%	486	270	756

Northeast Minnesota (Broad Production Occupations)

<u>SOC Code</u>	<u>Occupation</u>	<u>Estimated Employment 2009</u>	<u>Projected Employment 2019</u>	<u>Percent Change 2009 - 2019</u>	<u>Numeric Change 2009 - 2019</u>	<u>2009 - 2019 Replacement Openings*</u>	<u>2009 - 2019 Total Openings**</u>
512000	Assemblers and Fabricators	690	785	13.8%	95	150	245
514000	Metal Workers and Plastic Workers	1,303	1,345	3.2%	42	290	332
514041	Machinists	262	280	6.9%	18	40	58
517000	Woodworkers	422	416	-1.4%	-6	9	9
519000	Other Production Occupations	2,682	2,637	-1.7%	-45	53	53

*** 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.

Northeast Minnesota Broad Industries

<u>NAICS Code</u>	<u>Industry</u>	<u>Estimated Employment 2009</u>	<u>Projected Employment 2019</u>	<u>Percent Change 2009 - 2019</u>	<u>Numeric Change 2009 - 2019</u>
000000	Total, All Industries	154,500	168,297	8.9%	13,797
62	Health Care and Social Assistance	30,675	37,856	23.4%	7,181
21	Mining	3,067	4,033	31.5%	966
54	Professional and Technical Services	3,916	4,723	20.6%	807
72	Accommodation and Food Services	13,917	14,575	4.7%	658

23	Construction	5,647	6,158	9%	511
22	Utilities	1,516	1,451	-4.3%	-65
31	Manufacturing	8,628	8,173	-5.3%	-455

Northeast Minnesota Selected Industry Groups

NAICS Code	Industry	Estimated Employment 2009	Projected Employment 2019	Percent Change 2009 - 2019	Numeric Change 2009 - 2019
621	Ambulatory Health Care Services	7,414	9,634	29.9%	2,220
336	Transportation Equipment Manufacturing	628	811	29.1%	183
623	Nursing and Residential Care Facilities	9,273	11,676	25.9%	2,403
5415	Computer Systems Design and Rel Services	650	800	23.1%	150
541	Professional and Technical Services	3,916	4,723	20.6%	807
5413	Architectural and Engineering Services	984	1,185	20.4%	201
325	Chemical Manufacturing	221	266	20.4%	45
237	Heavy and Civil Engineering Construction	712	795	11.7%	83
721	Accommodation	3,450	3,854	11.7%	404
622	Hospitals	9,958	11,076	11.2%	1,118
327	Nonmetallic Mineral Product Mfg	566	617	9%	51
236	Construction of Buildings	1,269	1,380	8.7%	111
238	Specialty Trade Contractors	3,666	3,983	8.6%	317
332	Fabricated Metal Product Manufacturing	785	845	7.6%	60
722	Food Services and Drinking Places	10,467	10,721	2.4%	254
221	Utilities	1,516	1,451	-4.3%	-65
321	Wood Product Manufacturing	971	916	-5.7%	-55
333	Machinery Manufacturing	927	806	-13.1%	-121
311	Food Manufacturing	332	256	-22.9%	-76
322	Paper Manufacturing	2,380	1,712	-28.1%	-668

For Comparison, here are a few broad industry groups for all of Minnesota

Minnesota

<u>NAICS Code</u>	<u>Industry</u>	<u>Estimated Employment 2009</u>	<u>Projected Employment 2019</u>	<u>Percent Change 2009 - 2019</u>	<u>Numeric Change 2009 - 2019</u>
000000	Total, All Industries	2,837,000	3,083,000	8.7%	246,000
62	Health Care and Social Assistance	403,765	506,870	25.5%	103,105
54	Professional and Technical Services	124,837	150,599	20.6%	25,762
72	Accommodation and Food Services	199,887	215,288	7.7%	15,401
23	Construction	93,449	107,750	15.3%	14,301
21	Mining	4,420	4,185	-5.3%	-235
22	Utilities	12,725	12,460	-2.1%	-265
31	Manufacturing	300,198	277,762	-7.5%	-22,436