



High Wage and High Demand Jobs in the Twin Cities Region: 2009-2019 Environmental Scan

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Summary

This report is an Environmental Scan of the occupations in the 7 County Twin Cities Metro Region for the 2009-2019 timeframe requiring an education level of Bachelor's and lower educational attainment with the following three criteria:

- 2009 Median Wage greater than or equal to \$19.00 (median wage of entire Metro Region jobs in the timeframe)
- The proportion of increase in projected jobs is greater than or equal to 9% (the percent change of entire Metro Region in the timeframe)
- The number of new jobs (Change) is greater than 100 in the timeframe. This value was set as a cut point to eliminate the occupations with smaller numbers of available jobs.

This reported is based on educational level order and then sorted descending by Change (new jobs) and then by Median Wage. **Note:** An asterisk (*) behind a Job Description indicates that MCTC is currently providing education for this job.

Report Fields

Field Title	Description
Job Description*	National Standard Occupational Classification (SOC) title of the job or occupation. The "*" indicates MCTC is already providing the required education for this job.
Projected 2009 and Projected 2019 Jobs	Total number of projected jobs for the reported occupation in the projection year. In addition to the existing jobs, these projections include available jobs (both new and replacement).
Change (New Jobs)	The number of projected new jobs between 2009 and 2019.
Percent Change	The proportion of increase or decrease in the total number of projected jobs between 2009 and 2016.
New & Replacement Jobs	The projected number of available jobs (both new and replacement) between 2009 and 2019.
Percent of New & Rep.	The total projected regional job openings (both new and replacement) between 2009 and 2019 as a percentage of the occupation's total jobs.
25 th Pct Wage	2009 25 th percentile hourly earnings (excluding benefits). The earnings at which 75% of those in the job classification are earning the same or more per hour.
Median Wage	2009 median hourly earnings (excluding benefits). The median wage is the point where an equal number of wages are above and below. This is also called the 50 th percentile.

MCTC Programs

This table shows all jobs by education level that meet the criteria of the Environmental Scan and are identified as being educated by programs at MCTC.

Education Level	Job Description	MCTC Program
Bachelor's Degree	Accountants and auditors	ACCT
	Network systems and data communications analysts	ITEC
	Network and computer systems administrators	ITEC
	Social and community service managers	BUSN
	Construction managers	BUSN
	Database administrators	ITEC
	Commercial and industrial designers	GRPH
Associate's Degree	Registered nurses	NURS
Postsecondary Vocational Award	Licensed practical and licensed vocational nurses	NURS
	Healthcare practitioners and technical workers, all other	PSOM
	Security and fire alarm systems installers	CNEL
	Healthcare technologists and technicians, all other	ENDT, PSOM
Moderate-term on-the-job training	Executive secretaries and administrative assistants	BTEC
	Dental assistants	DNTA
	Woodworking machine setters, operators, and tenders, except sawing	CBMK
	Managers, all other	BUSN
	Cost estimators	BUSN

Report Details

Bachelor's Degree

Job Description	Projected 2009 Jobs	Projected 2019 Jobs	Change (New Jobs)	Percent Change	2009-2019 New & Replacement Jobs	Percent New & Rep.	2009 25th Pct Wage	2009 Median Wage
Business operation specialists, all other	33,877	40,514	6,637	20%	10,264	30%	\$19.24	\$25.10
Computer software engineers, applications	13,468	18,035	4,567	34%	6,530	48%	\$33.48	\$41.15
Accountants and auditors*	21,690	24,615	2,925	13%	6,741	31%	\$20.65	\$25.54
Network systems and data communications analysts*	5,824	8,238	2,414	41%	3,601	62%	\$28.92	\$35.81
Securities, commodities, and financial services sales agents	10,675	12,861	2,186	20%	4,919	46%	\$15.53	\$25.29
Computer systems analysts	9,785	11,861	2,076	21%	4,671	48%	\$28.04	\$34.46
Network and computer systems administrators*	8,298	10,066	1,768	21%	3,662	44%	\$27.49	\$34.17
Financial analysts	6,462	8,202	1,740	27%	2,108	33%	\$21.61	\$28.49
Computer software engineers, systems software	6,970	8,306	1,336	19%	2,352	34%	\$34.25	\$42.42
Child, family, and school social workers	4,225	5,307	1,082	26%	1,973	47%	\$20.21	\$25.08
Industrial engineers	4,777	5,858	1,081	23%	2,231	47%	\$31.19	\$38.10
Market research analysts	6,894	7,777	883	13%	1,350	20%	\$25.40	\$33.04
Human resources, training, and labor relations specialists, all other	5,142	5,913	771	15%	1,878	37%	\$22.34	\$27.62
Social and community service managers*	2,022	2,668	646	32%	1,032	51%	\$19.24	\$23.69
Training and development specialists	3,604	4,146	542	15%	1,317	37%	\$21.66	\$27.23
Construction managers*	5,174	5,699	525	10%	1,327	26%	\$16.97	\$22.01
Database administrators*	2,114	2,581	467	22%	693	33%	\$27.85	\$36.78

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Job Description	Projected 2009 Jobs	Projected 2019 Jobs	Change (New Jobs)	Percent Change	2009-2019 New & Replacement Jobs	Percent New & Rep.	2009 25th Pct Wage	2009 Median Wage
Special education teachers, preschool, kindergarten, and elementary school	3,040	3,499	459	15%	1,135	37%	\$25.51	\$31.58
Medical and public health social workers	1,472	1,911	439	30%	749	51%	\$19.12	\$22.31
Compensation, benefits, and job analysis specialists	2,519	2,883	364	14%	906	36%	\$20.29	\$25.61
Public relations specialists	3,046	3,404	358	12%	587	19%	\$19.23	\$24.15
Medical and clinical laboratory technologists	1,805	2,153	348	19%	621	34%	\$24.71	\$28.23
Civil engineers	2,827	3,149	322	11%	1,067	38%	\$26.08	\$33.93
Employment, recruitment, and placement specialists	2,633	2,913	280	11%	847	32%	\$18.35	\$24.20
Architects, except landscape and naval	1,922	2,171	249	13%	612	32%	\$21.16	\$30.30
Biomedical engineers	722	901	179	25%	343	48%	\$36.40	\$44.31
Physician assistants	775	940	165	21%	272	35%	\$34.83	\$40.29
Logisticians	922	1,073	151	16%	288	31%	\$24.55	\$32.88
Commercial and industrial designers*	1,318	1,454	136	10%	486	37%	\$19.58	\$27.90
Technical writers	1,052	1,184	132	13%	449	43%	\$23.06	\$28.38
Surveyors	594	705	111	19%	294	50%	\$24.96	\$30.07
Legal support workers, all other	809	916	107	13%	241	30%	\$17.66	\$22.06
Health diagnosing and treating practitioners, all other	579	681	102	18%	201	35%	\$15.50	\$20.76

Associate's Degree

Job Description	Projected 2009 Jobs	Projected 2019 Jobs	Change (New Jobs)	Percent Change	2009-2019 New & Replacement Jobs	Percent New & Rep.	2009 25th Pct Wage	2009 Median Wage
Registered nurses*	32,906	42,343	9,437	29%	14,869	45%	\$29.29	\$34.77
Computer specialists, all other	6,418	7,051	633	10%	2,335	36%	\$26.89	\$34.90
Radiologic technologists and technicians	2,626	3,149	523	20%	879	33%	\$22.98	\$27.97
Dental hygienists	2,537	3,051	514	20%	998	39%	\$32.07	\$35.26
Paralegals and legal assistants	3,232	3,726	494	15%	919	28%	\$18.85	\$25.04
Medical and clinical laboratory technicians	1,921	2,292	371	19%	661	34%	\$16.17	\$19.34
Interior designers	1,418	1,713	295	21%	672	47%	\$14.43	\$19.05
Respiratory therapists	721	948	227	31%	333	46%	\$25.90	\$28.78
Industrial engineering technicians	2,073	2,290	217	10%	621	30%	\$20.42	\$23.87
Diagnostic medical sonographers	675	825	150	22%	241	36%	\$28.83	\$32.96
Cardiovascular technologists and technicians	445	593	148	33%	208	47%	\$21.89	\$27.69
Medical equipment repairers	691	811	120	17%	314	45%	\$16.75	\$21.19
Physical therapist assistants	426	532	106	25%	161	38%	\$19.36	\$21.81

Postsecondary vocational award

Job Description	Projected 2009 Jobs	Projected 2019 Jobs	Change (New Jobs)	Percent Change	2009-2019 New & Replacement Jobs	Percent New & Rep.	2009 25th Pct Wage	2009 Median Wage
Licensed practical and licensed vocational nurses*	7,940	8,689	749	9%	2,914	37%	\$18.25	\$20.54
Surgical technologists	933	1,237	304	33%	589	63%	\$19.98	\$22.41
Mobile heavy equipment mechanics, except engines	1,485	1,719	234	16%	525	35%	\$21.15	\$24.00
Healthcare practitioners and technical workers, all other*	1,174	1,389	215	18%	438	37%	\$19.89	\$24.13
Security and fire alarm systems installers*	761	916	155	20%	256	34%	\$15.68	\$19.95
Healthcare technologists and technicians, all other*	639	757	118	18%	169	26%	\$16.42	\$21.31
Court reporters	502	609	107	21%	190	38%	\$16.98	\$21.09

Long-term on-the-job training

Job Description	Projected 2009 Jobs	Projected 2019 Jobs	Change (New Jobs)	Percent Change	2009-2019 New & Replacement Jobs	Percent New & Rep.	2009 25th Pct Wage	2009 Median Wage
Industrial machinery mechanics	3,263	3,641	378	12%	923	28%	\$20.31	\$23.58
Athletes and sports competitors	731	887	156	21%	344	47%	\$18.28	\$36.40
Dental laboratory technicians	1,054	1,168	114	11%	312	30%	\$17.01	\$21.82

Moderate-term on-the-job training

Job Description	Projected 2009 Jobs	Projected 2019 Jobs	Change (New Jobs)	Percent Change	2009-2019 New & Replacement Jobs	Percent New & Rep.	2009 25th Pct Wage	2009 Median Wage
Executive secretaries and administrative assistants*	23,596	26,395	2,799	12%	6,556	28%	\$16.88	\$20.00
Sales representatives, services, all other	11,918	14,508	2,590	22%	5,396	45%	\$16.43	\$23.79
Sales and related workers, all other	9,793	10,806	1,013	10%	1,898	19%	\$14.70	\$19.25
Dental assistants*	3,037	3,643	606	20%	1,133	37%	\$17.78	\$20.11
Correctional officers and jailers	2,787	3,064	277	10%	914	33%	\$17.95	\$20.62
Roofers	996	1,123	127	13%	355	36%	\$16.28	\$21.61
Woodworking machine setters, operators, and tenders, except sawing*	936	1,043	107	11%	340	36%	\$13.79	\$19.70

Short-term on-the-job training

Job Description	Projected 2009 Jobs	Projected 2019 Jobs	Change (New Jobs)	Percent Change	2009-2019 New & Replacement Jobs	Percent New & Rep.	2009 25th Pct Wage	2009 Median Wage
Refuse and recyclable material collectors	1,255	1,380	125	10%	465	37%	\$16.22	\$20.73

Work experience in a related field

Job Description	Projected 2009 Jobs	Projected 2019 Jobs	Change (New Jobs)	Percent Change	2009-2019 New & Replacement Jobs	Percent New & Rep.	2009 25th Pct Wage	2009 Median Wage
Managers, all other*	22,467	24,743	2,276	10%	6,745	30%	\$22.90	\$30.49
First-line supervisors/managers of non-retail sales workers	12,693	14,023	1,330	10%	3,160	25%	\$20.84	\$28.31
Cost estimators*	2,779	3,110	331	12%	900	32%	\$22.02	\$27.87
First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	1,278	1,444	166	13%	253	20%	\$16.04	\$19.31
Construction and building inspectors	1,248	1,408	160	13%	391	31%	\$20.57	\$26.55

Data Resource(s)

EMSI Strategic Advantage Complete Employment – 2nd Quarter 2009 v.2

This report is different from previous reports on Wage and Labor Market Information. This report uses *complete* employment data versus *covered* employment data. Complete employment data includes covered employment data and includes self-employed, most farmers, some non-profits, and other types of jobs. Covered employment data is on occupations where businesses are required to furnish unemployment insurance coverage.