



**EMPLOYMENT AND  
ECONOMIC DEVELOPMENT**  
WORKFORCE STRATEGY CONSULTANTS

**Minnesota Workforce Challenges: Civil Engineering**  
Projected Demand, Pipeline Gaps, and Recommendations

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# Statewide Snapshot

- Civil Engineers: +8.3% growth, 2,508 openings; Median wage ~\$102,881
- Civil Eng Techs: +4.1% growth, 1,723 openings; Median wage ~\$79,331

## Regional Disparities

- Metro dominates employment; Northwest vacancy ~45%; Northeast growth modest

## Gap in Completions

- 2023 completions: ~151 CE grads; ~44 CE Tech grads statewide

## Graduate Outcomes

- Civil Eng median 2-yr wage ~\$71k; CE Tech ~\$58k

## Recommendations

- Expand CE Tech seats; Co-op programs; Accelerate licensure; Wage parity; Hybrid work

# Projected Openings

Area Name	Title	Estimate Year	Estimate Year Employment	Projected Year	Projected Year Employment	Percent Change	Total Change	Labor Force Exit Openings	Occupational Transfer Openings	Total Hires
U S	Total, All Occupations	2022	164,482,600	2032	169,148,100	2.8	4,665,500	80,183,000	100,817,000	185,665,000
Minnesota	Total, All Occupations	2022	3,135,681	2032	3,280,273	4.6	144,592	1,531,700	1,913,823	3,590,115
Central Minnesota	Total, All Occupations	2022	315,929	2032	332,231	5.2	16,302	160,516	198,606	375,424
Northeast Minnesota	Total, All Occupations	2022	153,945	2032	159,102	3.3	5,157	77,963	95,406	178,526
Northwest Minnesota	Total, All Occupations	2022	265,321	2032	275,647	3.9	10,326	135,428	166,881	312,635
Southeast Minnesota	Total, All Occupations	2022	270,975	2032	283,255	4.5	12,280	134,631	163,022	309,933
Seven County Mpls-St Paul, MN	Total, All Occupations	2022	1,927,280	2032	2,022,157	4.9	94,877	921,025	1,165,418	2,181,320
Minnesota	Civil Engineers	2022	3,621	2032	3,923	8.3	302	810	1,396	2,508
Central Minnesota	Civil Engineers	2022	259	2032	287	10.8	28	59	101	188
Northeast Minnesota	Civil Engineers	2022	185	2032	197	6.5	12	41	71	124
Northwest Minnesota	Civil Engineers	2022	273	2032	298	9.2	25	61	106	192
Southeast Minnesota	Civil Engineers	2022	173	2032	193	11.6	20	39	68	127
Southwest Minnesota	Civil Engineers	2022	198	2032	215	8.6	17	44	76	137
Seven County Mpls-St Paul, MN	Civil Engineers	2022	2,544	2032	2,753	8.2	209	569	980	1,758
Minnesota	Civil Engineering Technologists and Technicians	2022	1,802	2032	1,875	4.1	73	700	950	1,723
Central Minnesota	Civil Engineering Technologists and Technicians	2022	128	2032	137	7	9	50	68	127
Northeast Minnesota	Civil Engineering Technologists and Technicians	2022	171	2032	177	3.5	6	66	90	162
Northwest Minnesota	Civil Engineering Technologists and Technicians	2022	297	2032	314	5.7	17	116	158	291
Southeast Minnesota	Civil Engineering Technologists and Technicians	2022	107	2032	113	5.6	6	42	57	105
Southwest Minnesota	Civil Engineering Technologists and Technicians	2022	130	2032	136	4.6	6	51	69	126
Seven County Mpls-St Paul, MN	Civil Engineering Technologists and Technicians	2022	958	2032	994	3.8	36	371	504	911

# Civil Engineering Technologies/Technicians Graduates by School and Year

School	Award	Instructional Program	2021-2022	
			Graduates	Annual Median Wage (2 Yrs Post Graduation)
DCTC	Associate	Civil Engineering Technologies/Technicians	14	\$63,474
Lake Superior College	Associate	Civil Engineering Technologies/Technicians	n/a	n/a
North Hennepin Community College	Certificates (less than Bachelor's)	Civil Engineering Technologies/Technicians	n/a	n/a
St. Cloud Technical and Community College	Associate	Civil Engineering Technologies/Technicians	16	\$58,170
South Central College	Associate	Civil Engineering Technologies/Technicians	n/a	n/a
Mankato State University	Bachelor's	Civil Engineering	48	\$74,654
University of Minnesota - Duluth	Bachelor's	Civil Engineering	55	\$68,882
University of Minnesota - Duluth	Graduate (Certificates and Degrees)	Civil Engineering	n/a	n/a
University of Minnesota	Bachelor's	Civil Engineering	52	\$70,309
University of Minnesota	Graduate (Certificates and Degrees)	Civil Engineering	25	\$72,575
		CE Tech Total	30	
		CE Total	180	
Total		Total	210	



## Why This Matters and What's Next

- Investing in talent now is essential
- Collaboration will determine whether we meet future infrastructure needs

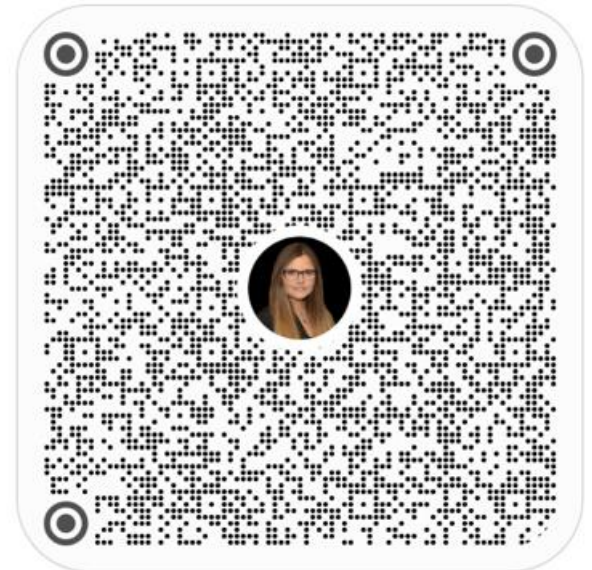
# Thank You!

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