



STEM Occupations (SOC 2021) in Chicago-Naperville-Elgin, IL-IN-WI

Contents

What is Lightcast Data?	1
Report Parameters	2
Executive Summary	3
Jobs	4
Compensation	7
Job Posting Activity	8
Demographics	11
Occupational Programs	13

What is Lightcast Data?

Lightcast data is a hybrid dataset derived from official government sources such as the US Census Bureau, Bureau of Economic Analysis, and Bureau of Labor Statistics. Leveraging the unique strengths of each source, our data modeling team creates an authoritative dataset that captures more than 99% of all workers in the United States. This core offering is then enriched with data from online social profiles, resumé, and job postings to give you a complete view of the workforce.

Lightcast data is frequently cited in major publications such as *The Atlantic*, *Forbes*, *Harvard Business Review*, *The New York Times*, *The Wall Street Journal*, and *USA Today*.



Report Parameters

8 Occupations

15-1200 Computer Occupations

15-2000 Mathematical Science Occupations

17-2000 Engineers

17-3000 Drafters, Engineering Technicians, and Mapping Technicians

19-1000 Life Scientists

19-2000 Physical Scientists

19-3000 Social Scientists and Related Workers

19-4000 Life, Physical, and Social Science Technicians

1 MSA

16980 Chicago-Naperville-Elgin, IL-IN-WI

Class of Worker

QCEW Employees, Non-QCEW Employees, and Self-Employed

The information in this report pertains to the chosen occupations and geographical area.

Executive Summary

Aggressive Job Posting Demand Over a Thin Supply of Regional Jobs



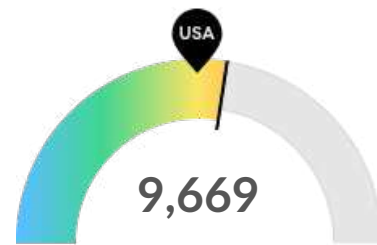
Jobs (2024)

Chicago-Naperville-Elgin, IL-IN-WI is not a hotspot for this kind of job. The national average for an area this size is 276,860* employees, while there are 223,999 here.



Compensation

Earnings are about average in Chicago-Naperville-Elgin, IL-IN-WI. The national median salary for your occupations is \$96,141, compared to \$97,255 here.



Job Posting Demand

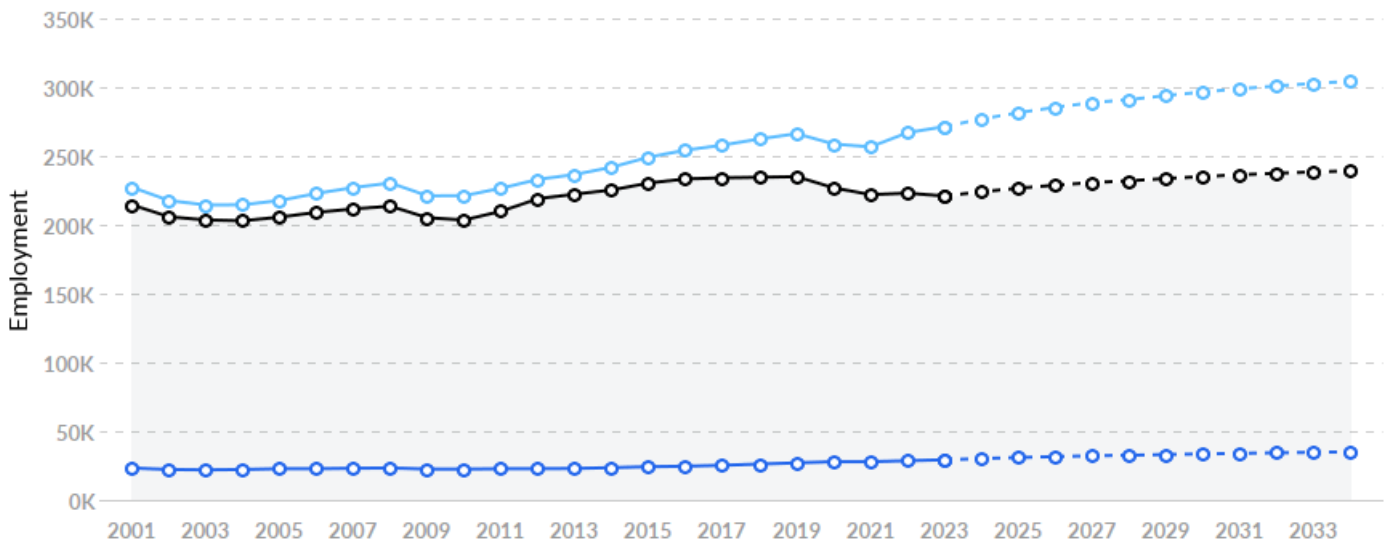
Job posting activity is high in Chicago-Naperville-Elgin, IL-IN-WI. The national average for an area this size is 8,418* job postings/mo, while there are 9,669 here.

*National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and Chicago-Naperville-Elgin, IL-IN-WI. In other words, the values represent the national average adjusted for region size.

Jobs

Regional Employment Is Lower Than the National Average

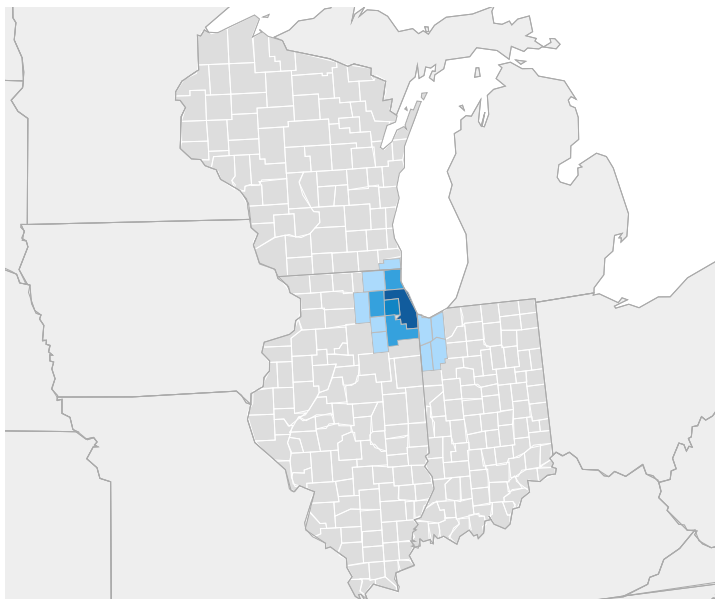
An average area of this size typically has 276,860* jobs, while there are 223,999 here. This lower than average supply of jobs may make it more difficult for workers in this field to find employment in your area.



Region	2024 Jobs	2033 Jobs	Change	% Change
● Chicago-Naperville-Elgin, IL-IN-WI	223,999	238,417	14,419	6.4%
● National Average	276,860	302,707	25,847	9.3%
● Colorado Springs, CO	30,107	34,647	4,541	15.1%

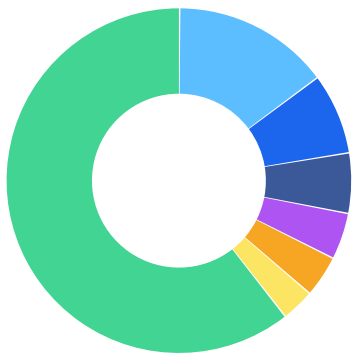
*National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and Chicago-Naperville-Elgin, IL-IN-WI. In other words, the values represent the national average adjusted for region size.

Regional Breakdown



County	2024 Jobs
Cook County, IL	128,108
DuPage County, IL	38,935
Lake County, IL	19,859
Will County, IL	9,401
Kane County, IL	9,338

Most Jobs are Found in the Computer Systems Design and Related Services Industry Sector

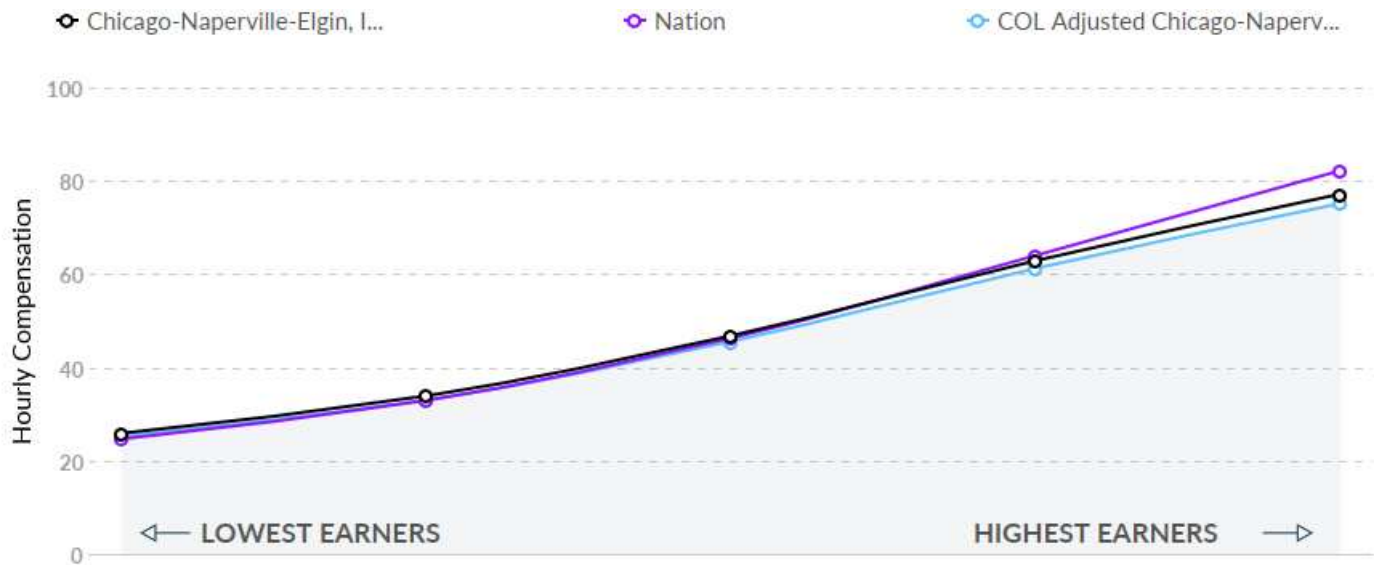


Industry	% of Occupation in Industry (2024)
 Computer Systems Design and Related Services	14.7%
 Architectural, Engineering, and Related Services	7.6%
 Management, Scientific, and Technical Consulting Services	5.6%
 Management of Companies and Enterprises	4.4%
 Employment Services	3.9%
 Scientific Research and Development Services	3.1%
 Other	60.6%

Compensation

Regional Compensation Is 1% Higher Than National Compensation

For your occupations, the 2023 median wage in Chicago-Naperville-Elgin, IL-IN-WI is \$46.76/hr, while the national median wage is \$46.22/hr.



Job Posting Activity



67,686 Unique Job Postings

The number of unique postings for this job from Jan 2024 to Jul 2024.



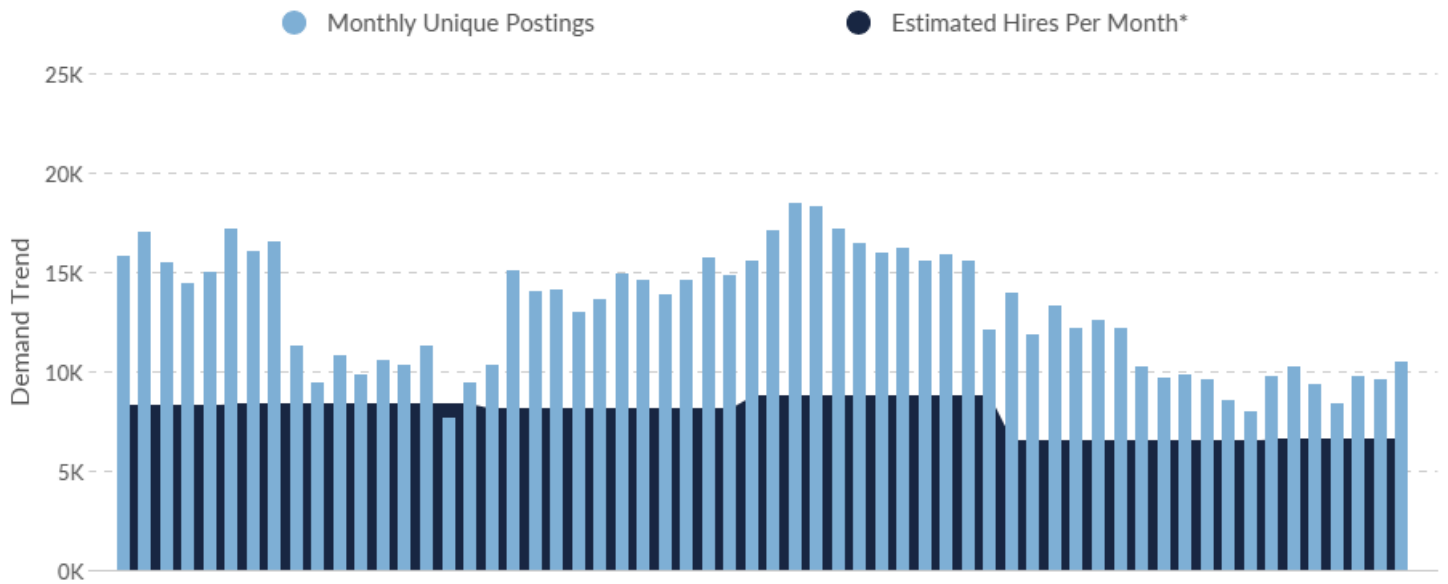
9,719 Employers Competing

All employers in the region who posted for this job from Jan 2024 to Jul 2024.




















20 Day Median Duration

Posting duration is 4 days shorter than what's typical in the region.



Occupation	Avg Monthly Postings (Jan 2024 - Jul 2024)	Avg Monthly Hires (Jan 2024 - Jul 2024)
Computer Occupations	5,611	3,753
Engineers	1,267	1,017
Mathematical Science Occupations	1,008	410
Drafters, Engineering Technicians, and Mapping Technicians	447	479
Social Scientists and Related Workers	703	274
Life Scientists	279	166
Life, Physical, and Social Science Technicians	171	328
Physical Scientists	183	178

*A hire is reported by the Quarterly Workforce Indicators when an individual's Social Security Number appears on a company's payroll and was not there the quarter before. Lightcast hires are calculated using a combination of Lightcast jobs data, information on separation rates from the Bureau of Labor Statistics (BLS), and industry-based hires data from the Census Bureau.

Top Companies	Unique Postings	Top Job Titles	Unique Postings
Uline	1,435 	School Psychologists	2,629 
Actalent	943 	Software Engineers	650 
Soliant Health	813 	Data Analysts	564 
ProCare Therapy	729 	Data Engineers	476 
Randstad	670 	Electrical Engineers	397 
Discover Financial Services	660 	Mechanical Engineers	393 
Epsilon	643 	Network Engineers	375 
Deloitte	579 	Software Developers	364 
University of Chicago	575 	Data Scientists	347 
AbbVie	559 	Solutions Architects	337 

Top Distinguishing Skills by Demand

Not enough data to display Distinguishing Skills for this occupation.

Top Defining Skills by Demand

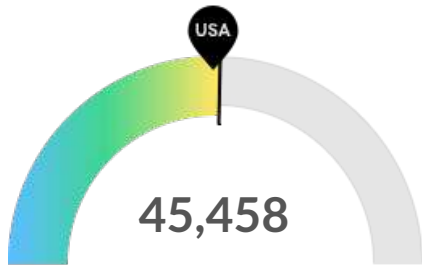
Not enough data to display Defining Skills for this occupation.

Top Necessary Skills by Demand

Not enough data to display Necessary Skills for this occupation.

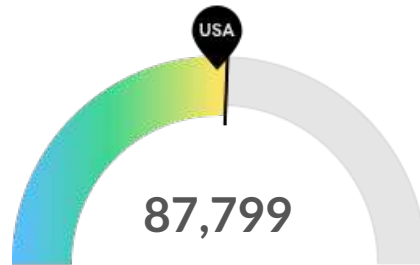
Demographics

Retirement Risk Is About Average, While Overall Diversity Is About Average



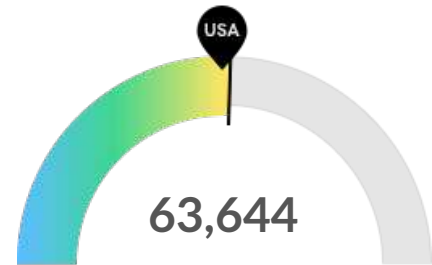
Retiring Soon

Retirement risk is about average in Chicago-Naperville-Elgin, IL-IN-WI. The national average for an area this size is 44,429* employees 55 or older, while there are 45,458 here.



Racial Diversity

Racial diversity is about average in Chicago-Naperville-Elgin, IL-IN-WI. The national average for an area this size is 84,601* racially diverse employees, while there are 87,799 here.

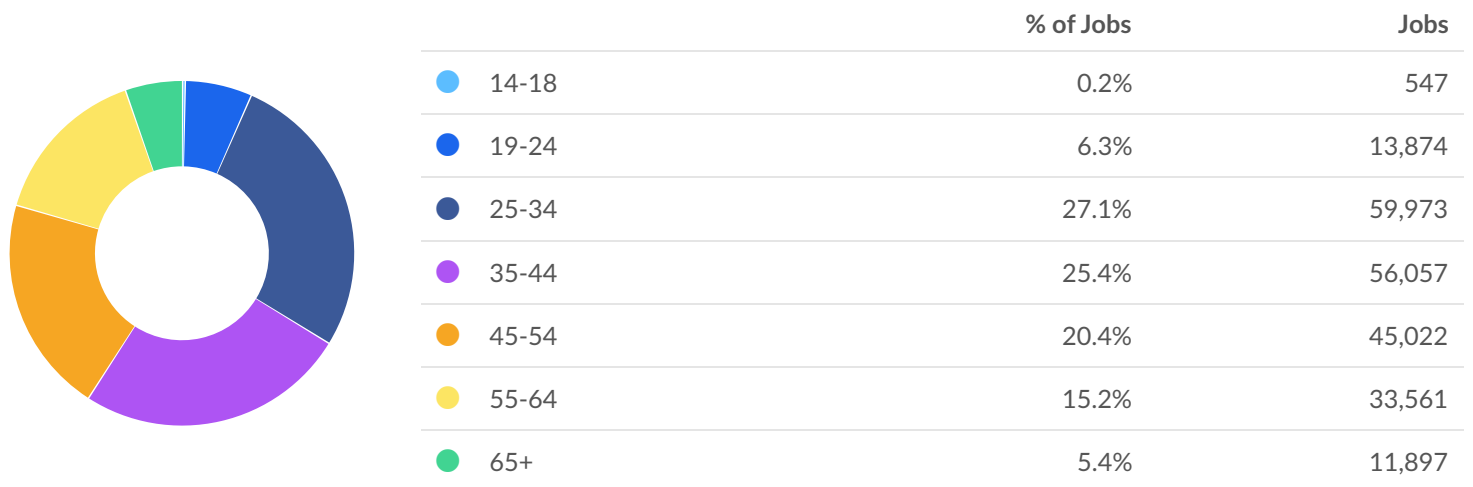


Gender Diversity

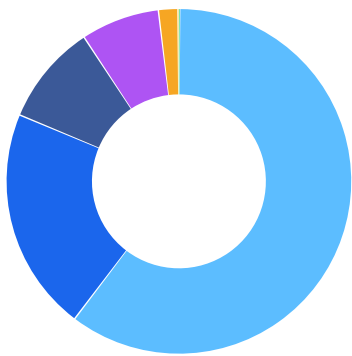
Gender diversity is about average in Chicago-Naperville-Elgin, IL-IN-WI. The national average for an area this size is 61,841* female employees, while there are 63,644 here.

*National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and Chicago-Naperville-Elgin, IL-IN-WI. In other words, the values represent the national average adjusted for region size.

Occupation Age Breakdown

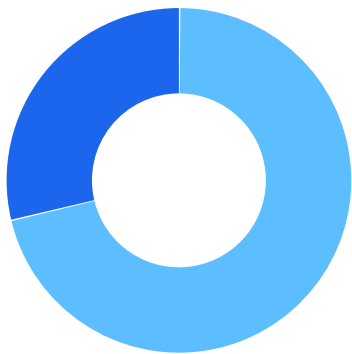


Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
White	60.3%	133,134
Asian	21.0%	46,308
Hispanic or Latino	9.4%	20,869
Black or African American	7.4%	16,257
Two or More Races	1.8%	4,030
American Indian or Alaska Native	0.1%	198
Native Hawaiian or Other Pacific Islander	0.1%	138

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	71.2%	157,290
Females	28.8%	63,644

Occupational Programs



374 Programs

Of the programs that can train for this job, 374 have produced completions in the last 5 years.



72,198 Completions (2023)








The completions from all regional institutions for all degree types.



16,978 Openings (2023)

The average number of openings for an occupation in the region is 749.

CIP Code	Top Programs	Completions (2023)
24.0101	Liberal Arts and Sciences/Liberal Studies	13,056
52.1301	Management Science	4,191
51.0707	Health Information/Medical Records Technology/Technician	3,853
11.0103	Information Technology	3,751
30.0101	Biological and Physical Sciences	2,981
11.0701	Computer Science	2,729
42.0101	Psychology, General	2,530
26.0101	Biology/Biological Sciences, General	1,780
24.0102	General Studies	1,712
52.0101	Business/Commerce, General	1,417

Top Schools	Completions (2023)	
DeVry University-Illinois	10,002	
Northwestern University	6,470	
University of Chicago	5,915	
University of Illinois Chicago	5,705	
William Rainey Harper College	2,739	
DePaul University	2,665	
College of Lake County	2,643	
Loyola University Chicago	2,548	
Northern Illinois University	1,883	
Moraine Valley Community College	1,796	

Appendix A - Data Sources and Calculations

Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

Occupation Data

Emsi occupation employment data are based on final Emsi industry data and final Emsi staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates are also affected by county-level Emsi earnings by industry.

Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

Cost of Living Data

Lightcast's cost of living data is based on the Cost of Living Index published by the Council for Community and Economic Research (C2ER).

Lightcast Job Postings

Job postings are collected from various sources and processed/enriched to provide information such as standardized company name, occupation, skills, and geography.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.