

Engineering Technologies/Technicians, General (15.0000)

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About Lightcast

Lightcast is a labor market analytics firm that is passionate about providing meaningful data for colleges and their students.

Our data is trusted by a breadth of users including researchers at colleges and universities, economic development organizations, and Fortune 500 companies.

Lightcast data offers a three-pronged approach to labor market information:

1. Our traditional LMI combines dozens of government sources from agencies like the Bureau of Economic Analysis, U.S. Census Bureau, and Bureau of Labor Statistics into one dataset that details industries, occupations, demographics, academic programs, and more.
2. Lightcast's job posting analytics give a real-time look into the needs of employers in today's labor market. Each month, millions of postings are scraped from employer sites and job boards, de-duplicated, and compiled into an actionable dataset.
3. Lightcast also leverages workforce profiles—an innovative database of more than 100 million resumés and professional profiles that are aggregated from the open web. These profiles unify information for workers—such as education, employment history, skills, and more—to reveal robust detail on what is happening in today's workforce.

Together, these data related to labor market demand, relevant skills, and the competitive landscape help colleges and universities make informed decisions about their program offerings.

Program Definition

Institution:

Code	Description
157289	University of Louisville

Program in Question:

Code	Description
15.0000	Engineering Technologies/Technicians, General

Competitive Landscape

Institution Sectors:

Description

Public, 4-year or above

Education Levels:

Description

Bachelor's Degree

Program Type:

Description

Non-Distance Offered Programs

Region:

Code	Description
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0	United States
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Additional Competing Programs:

Code	Description
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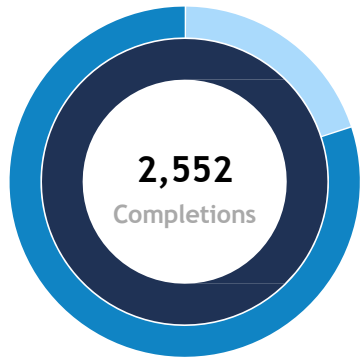
15.1501	Engineering/Industrial Management
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Student Charges Type:Tuition & Fees

Student Charges Grad Status:Undergraduate

Student Charges Residency:In-State

Program Overview

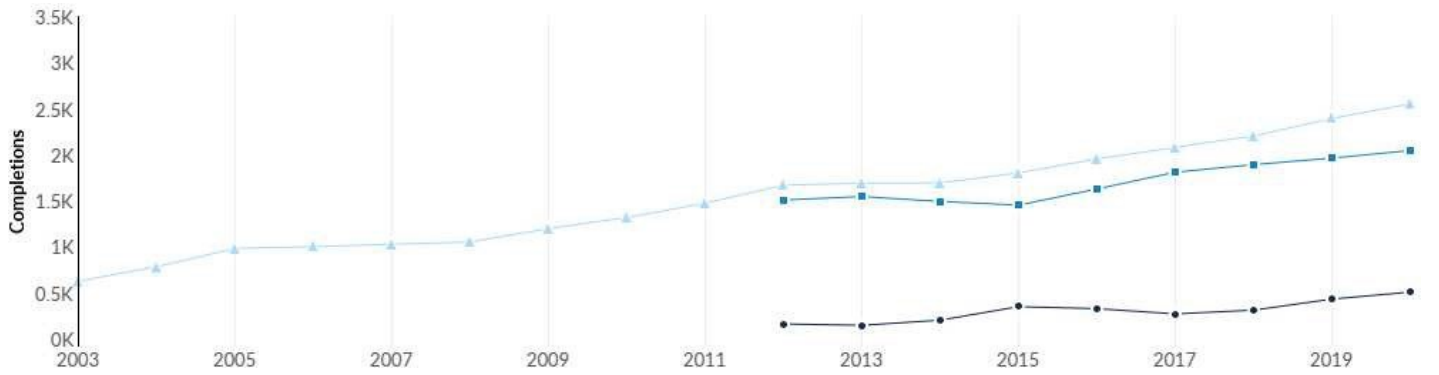


		Completions (2020)	% Completions	Institutions (2020)	% Institutions
A	All Programs	2,552	100%	75	100%
A	Distance Offered Programs	507	20%	16	21%
A	Non-Distance Offered Programs	2,045	80%	60	80%

Completions by Institution

Institution	Bachelor's Degree > Non-Distance Offered Completions (2020)	Growth % YOY (2020)	Market Share (2020)	IPEDS Tuition & Fees (2020)	Completions Trend (2016-2020)
New Jersey Institute of Technology	214	-3.6%	10.5%	\$17,674	
Iowa State University	106	8.2%	5.2%	\$9,316	
Middle Tennessee State University	100	2.0%	4.9%	\$9,070	
University of Colorado Boulder	84	Insf. Data	4.1%	\$12,466	
Missouri University of Science and Technology	78	-2.5%	3.8%	\$10,818	
Purdue University-Main Campus	73	19.7%	3.6%	\$9,992	
Tennessee Technological University	62	-16.2%	3.0%	\$9,636	
Eastern Washington University	60	233.3%	2.9%	\$7,733	
University of Wisconsin-Stout	58	-15.9%	2.8%	\$9,488	
Texas State University	56	24.4%	2.7%	\$10,855	

Regional Trends



	2012 Completions	2020 Completions	% Change
A Distance Offered Programs	161	507	+214.9%
B Non-Distance Offered Programs	1,507	2,045	+35.7%
C All Programs	1,668	2,552	+53.0%

Labor Market Demand

Labor Market Area Selection:

Code	Description
0	United States

Target Occupations:

16 items selected. See Appendix A for details.

Degree Levels:

Description
Bachelor's degree

Completions Year (default):2020

Jobs Year (default):2021

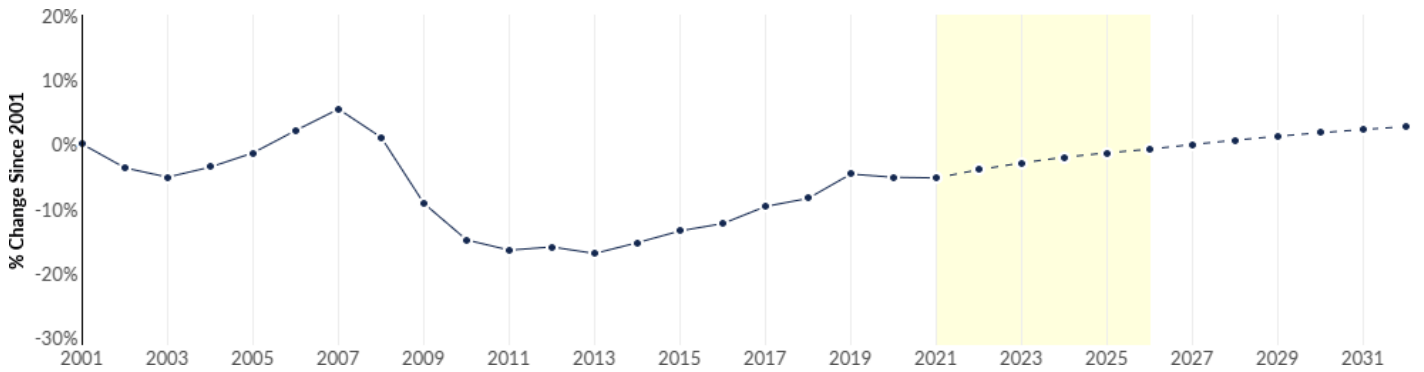
Target Occupations

**Filtered by the proportion of the national workforce in these occupations with a Bachelor's degree*

321,290 <i>Jobs (2021)*</i>	+5.1% <i>% Change (2021-2026)*</i>	\$31.04/hr \$64.6K/yr Median Earnings	32,164 <i>Annual Openings*</i>
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Occupation	2021 Jobs*	Annual Openings*	Median Earnings	Growth (2021 - 2026)*
Construction Managers	141,534	13,173	\$38.79/hr	+9.16%
Architectural and Civil Drafters	29,871	3,065	\$28.94/hr	+1.42%
Surveyors	29,539	2,817	\$29.61/hr	+2.68%
Construction and Building Inspectors	29,389	3,637	\$29.30/hr	+1.68%
Electrical and Electronic Engineering Technologists and Technicians	15,351	1,559	\$30.47/hr	+2.03%
Engineering Technologists and Technicians, Except Drafters, All Other	13,028	1,433	\$29.74/hr	+2.95%
Mechanical Drafters	12,363	1,226	\$28.72/hr	-1.45%
Civil Engineering Technologists and Technicians	11,987	1,200	\$27.97/hr	+1.13%
Industrial Engineering Technologists and Technicians	11,060	1,160	\$28.90/hr	+3.52%
Mechanical Engineering Technologists and Technicians	7,202	753	\$29.02/hr	+2.93%
Electrical and Electronics Drafters	5,615	582	\$29.34/hr	+1.71%
Surveying and Mapping Technicians	4,956	666	\$22.57/hr	+3.23%
Environmental Engineering Technologists and Technicians	2,821	298	\$23.24/hr	+4.15%
Aerospace Engineering and Operations Technologists and Technicians	2,097	230	\$35.31/hr	+4.86%
Electro-Mechanical and Mechatronics Technologists and Technicians	2,066	206	\$28.96/hr	-0.44%
Calibration Technologists and Technicians	1,511	159	\$28.95/hr	+2.65%

Regional Trends



Region	2021 Jobs	2026 Jobs	Change	% Change
A Region	1,346,503	1,409,981	63,478	4.7%

Occupation Gender Breakdown



Gender	2021 Jobs	2021 Percent
A Males	1,154,301	85.7%
A Females	192,202	14.3%

Occupation Age Breakdown




	Age	2021 Jobs	2021 Percent
A	14-18	3,285	0.2%
A	19-24	70,319	5.2%
A	25-34	242,614	18.0%
A	35-44	300,510	22.3%
A	45-54	316,025	23.5%
A	55-64	308,926	22.9%
A	65+	104,824	7.8%

Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2021 Jobs	2021 Percent
A	White	989,618	73.5%
A	Hispanic or Latino	178,329	13.2%
A	Black or African American	75,752	5.6%
A	Asian	66,158	4.9%
A	Two or More Races	28,281	2.1%
A	American Indian or Alaska Native	6,498	0.5%
A	Native Hawaiian or Other Pacific Islander	1,867	0.1%

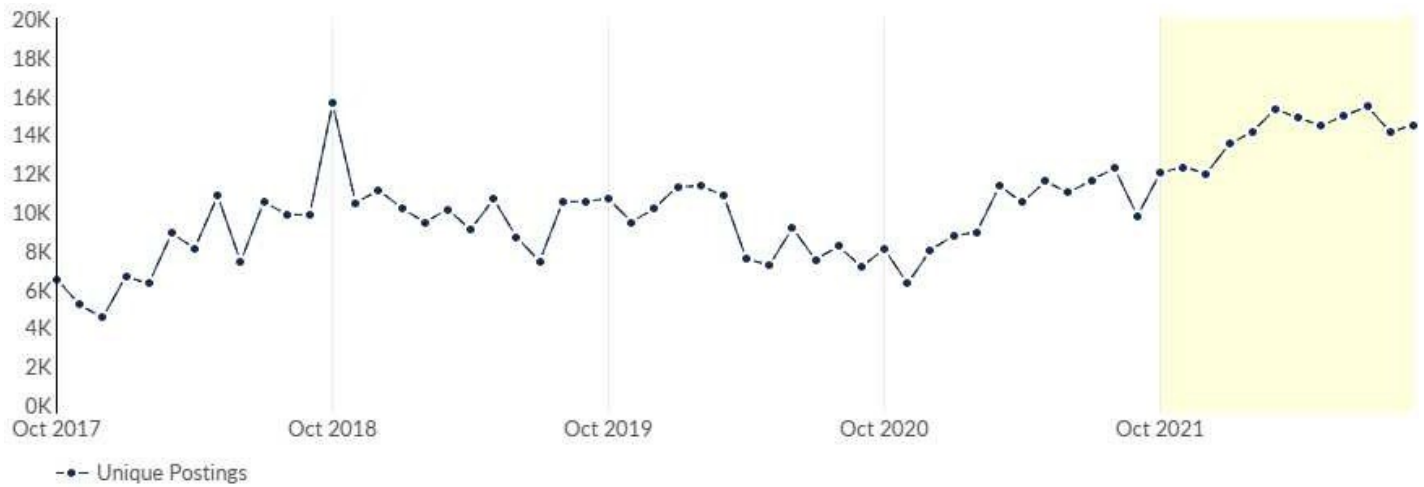
Job Postings Summary

<p>167,538 Unique Postings 419,338 Total Postings</p>	<p>3 : 1 Posting Intensity  Regional Average: 3 : 1</p>	<p>31 days Median Posting Duration Regional Average: 31 days</p>
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There were 419,338 total job postings for your selection from October 2021 to September 2022, of which 167,538 were unique. These numbers give us a Posting Intensity of 3-to-1, meaning that for every 3 postings there is 1 unique job posting.

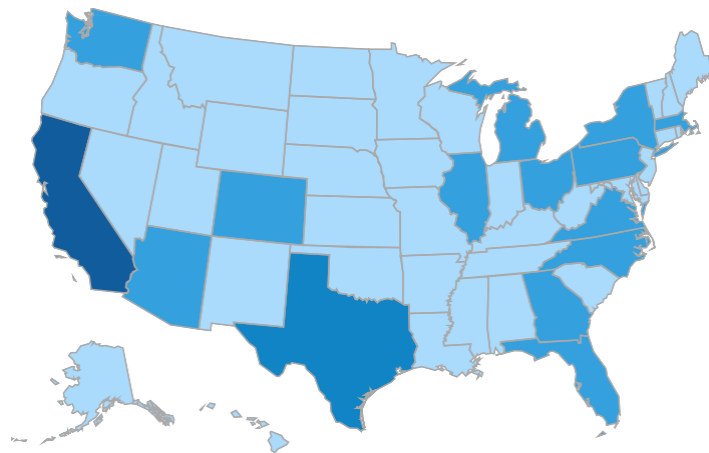
This is close to the Posting Intensity for all other occupations and companies in the region (3-to-1), indicating that they are putting average effort toward hiring for this position.

Unique Postings Trend













Month	Unique Postings	Posting Intensity
Sep 2022	14,484	2 : 1
Aug 2022	14,120	2 : 1
Jul 2022	15,439	2 : 1
Jun 2022	14,965	3 : 1
May 2022	14,453	3 : 1
Apr 2022	14,841	2 : 1
Mar 2022	15,306	2 : 1
Feb 2022	14,132	2 : 1
Jan 2022	13,504	3 : 1
Dec 2021	11,967	3 : 1
Nov 2021	12,309	3 : 1
Oct 2021	12,018	3 : 1

Job Postings Regional Breakdown













State	Unique Postings (Oct 2021 - Sep 2022)
California	22,842
Texas	15,420
Florida	9,490
New York	6,787
North Carolina	6,781











Top Companies Posting

Company	Total/Unique (Oct 2021 - Sep 2022)	Posting Intensity	Median Posting Duration
CDM Smith	5,792 / 3,709	2 : 1 	37 days
GPAC	8,022 / 3,310	2 : 1 	43 days
Randstad	4,842 / 2,957	2 : 1 	23 days
Black & Veatch	2,558 / 2,157	1 : 1 	28 days
Michael Page	4,288 / 1,549	3 : 1 	37 days
CBRE Group	3,060 / 1,197	3 : 1 	34 days
Jobot	3,618 / 1,185	3 : 1 	33 days
Actalent	3,258 / 1,121	3 : 1 	31 days
Travelers	1,260 / 971	1 : 1 	29 days
CyberCoders	2,723 / 891	3 : 1 	27 days











Top Cities Posting

City	Total/Unique (Oct 2021 - Sep 2022)	Posting Intensity	Median Posting Duration
New York, NY	8,059 / 3,427	2 : 1 	29 days
Houston, TX	7,439 / 3,068	2 : 1 	28 days
Los Angeles, CA	7,653 / 2,442	3 : 1 	26 days
Dallas, TX	6,371 / 2,332	3 : 1 	29 days
Atlanta, GA	5,252 / 2,232	2 : 1 	27 days
Phoenix, AZ	7,352 / 2,188	3 : 1 	28 days
Austin, TX	6,007 / 2,151	3 : 1 	29 days
Chicago, IL	5,030 / 2,142	2 : 1 	28 days
San Diego, CA	5,926 / 1,913	3 : 1 	29 days
Denver, CO	5,683 / 1,841	3 : 1 	28 days

Top Posted Occupations

Occupation (SOC)	Total/Unique (Oct 2021 - Sep 2022)	Posting Intensity	Median Posting Duration
Construction Managers	210,663 / 83,447	3 : 1 	32 days
Engineering Technologists and Technicians, Except Drafters, All Other	50,477 / 21,130	2 : 1 	26 days
Industrial Engineering Technologists and Technicians	50,110 / 18,126	3 : 1 	29 days
Construction and Building Inspectors	19,394 / 8,324	2 : 1 	32 days
Electrical and Electronic Engineering Technologists and Technicians	18,100 / 6,579	3 : 1 	28 days
Electrical and Electronics Drafters	12,503 / 5,497	2 : 1 	29 days
Mechanical Drafters	10,360 / 4,049	3 : 1 	31 days
Mechanical Engineering Technologists and Technicians	9,257 / 3,824	2 : 1 	27 days
Surveyors	8,718 / 3,803	2 : 1 	33 days
Civil Engineering Technologists and Technicians	7,578 / 3,614	2 : 1 	33 days

Top Posted Job Titles

Job Title	Total/Unique (Oct 2021 - Sep 2022)	Posting Intensity	Median Posting Duration
Construction Project Managers	27,895 / 11,732	2 : 1 	31 days
Construction Managers	20,586 / 8,786	2 : 1 	31 days
Project Managers	19,626 / 7,750	3 : 1 	32 days
Engineers	11,506 / 4,347	3 : 1 	27 days
Superintendents	11,089 / 3,875	3 : 1 	34 days
Engineering Technicians	6,857 / 2,768	2 : 1 	29 days
Manufacturing Technicians	6,931 / 2,076	3 : 1 	28 days
Assistant Project Managers	4,451 / 1,901	2 : 1 	36 days
Maintenance Technicians	3,809 / 1,501	3 : 1 	32 days
Construction Inspectors	3,399 / 1,323	3 : 1 	35 days

Rank as a Talent Provider

Lightcast's workforce profile data shows University of Louisville has 441 alumni working regionally in the 16 occupations selected. These 441 alumni represent 0.05% of regional profiles working in these occupations, which ranks your institution 280th among regional talent providers.

<p>441</p> <p>Your Alumni in Region Working in Target Occupations</p>	<p>0.05%</p> <p>Percent of Regional Profiles Working in Target Occupations</p>	<p>280</p> <p>Your Rank as a Regional Talent Provider</p>
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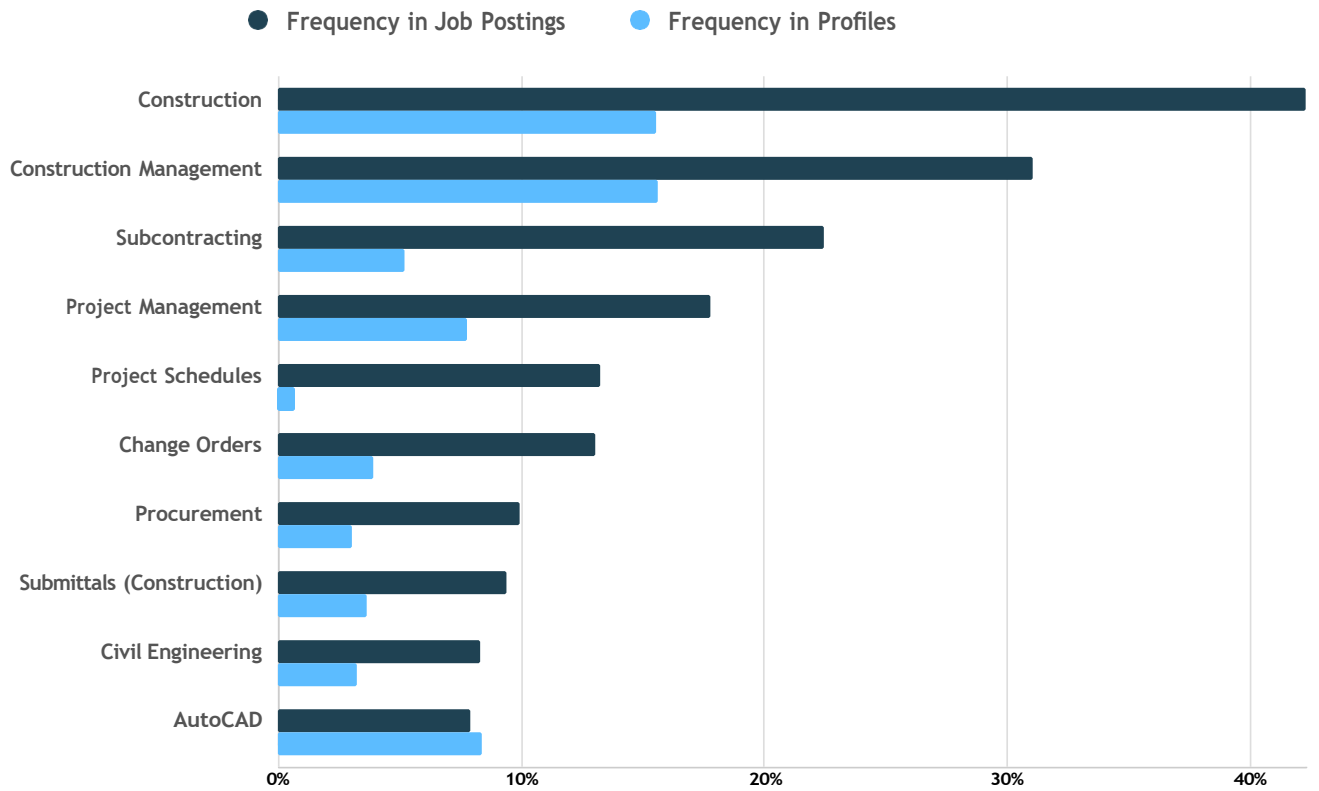
Top Talent Providers

The top regional institutions supplying the labor market with workers employed in the target occupations listed above, based on Lightcast’s workforce profile data.

School	Profiles	Percent
ITT Technical Institute-Troy	6,020	0.67%
University of Phoenix-Arizona	4,844	0.54%
Texas A & M University-College Station	4,014	0.45%
Community College of the Air Force	3,589	0.40%
DeVry University-Illinois	3,557	0.40%
Pennsylvania State University-Main Campus	3,394	0.38%
Arizona State University Campus Immersion	3,189	0.35%
Purdue University-Main Campus	2,808	0.31%
ITT Technical Institute-Harrisburg	2,635	0.29%
University of Maryland-College Park	2,540	0.28%

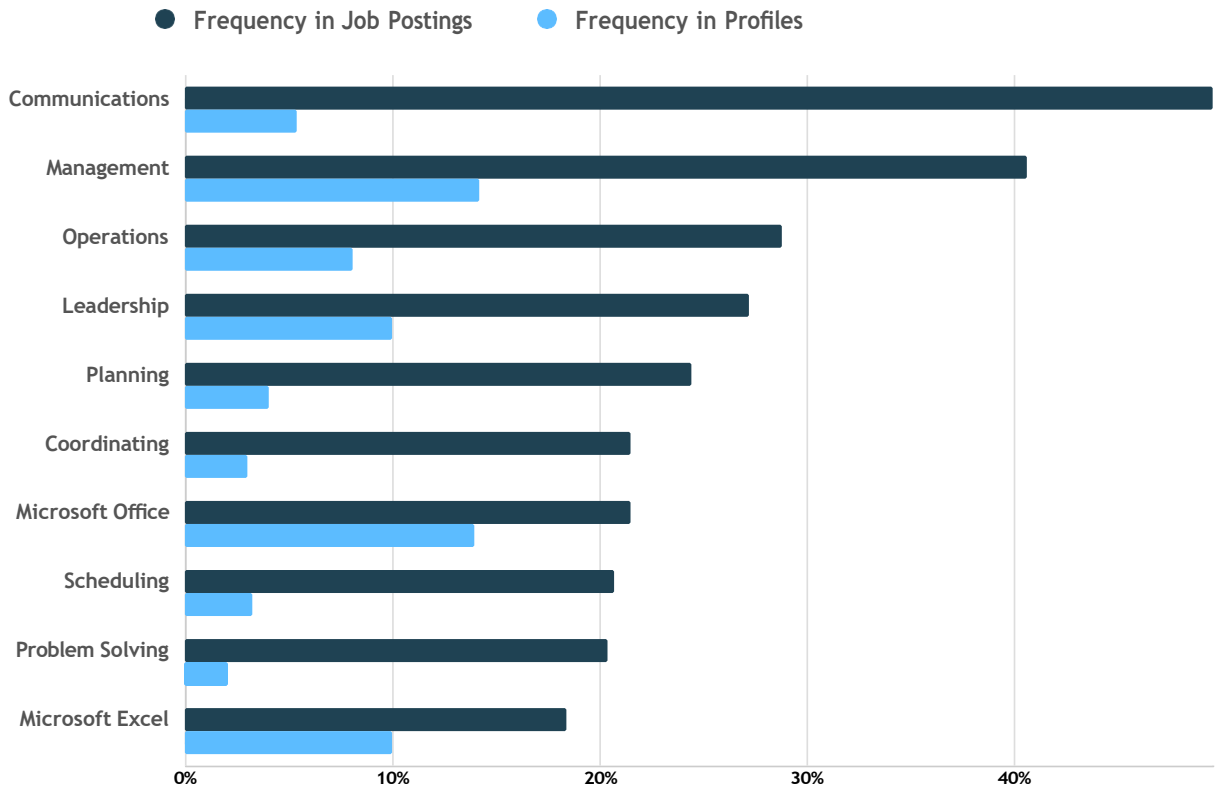
Relevant Skills

Top Specialized Skills



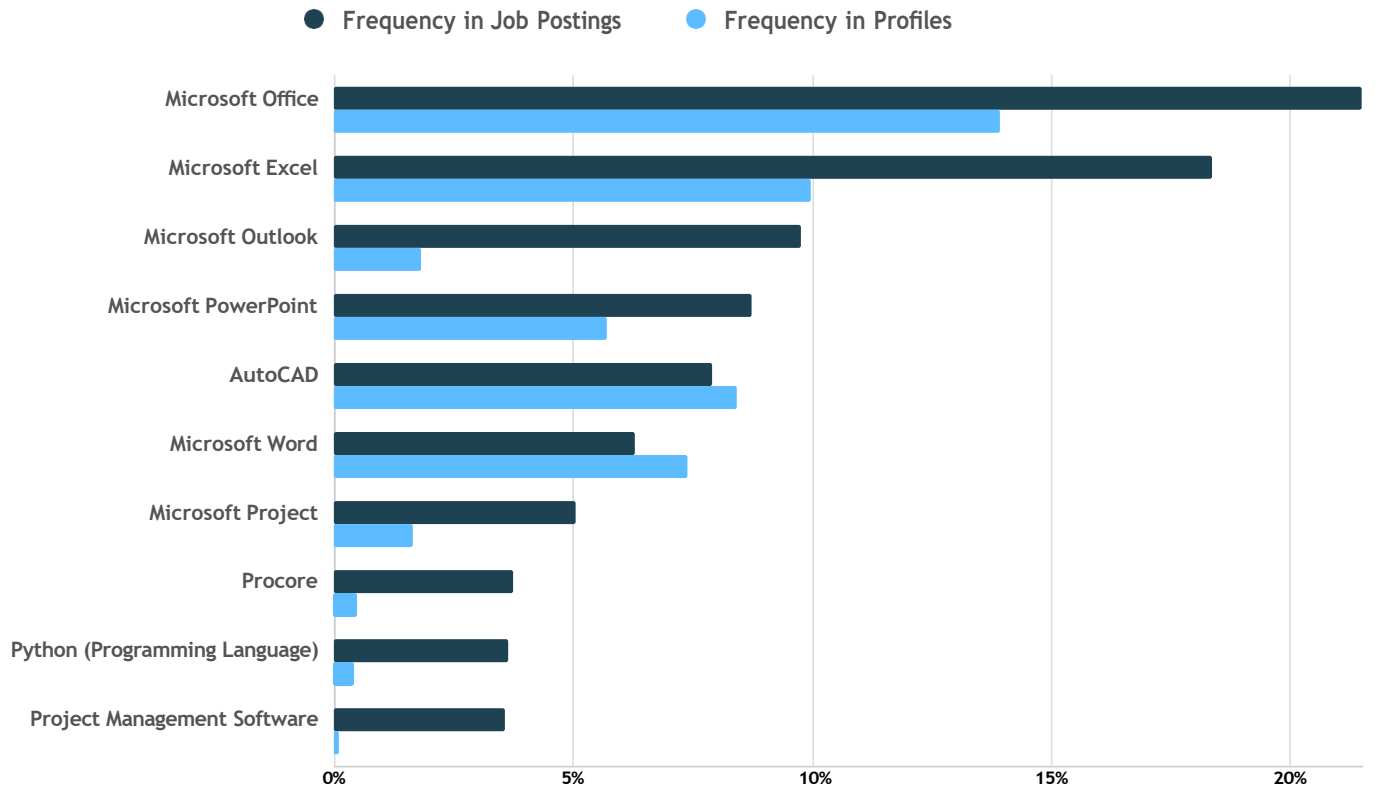
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Construction	70,893	42%	134,623	16%
Construction Management	52,036	31%	135,280	16%
Subcontracting	37,633	22%	45,048	5%
Project Management	29,835	18%	67,313	8%
Project Schedules	22,197	13%	6,039	1%
Change Orders	21,846	13%	33,668	4%
Procurement	16,654	10%	26,591	3%
Submittals (Construction)	15,770	9%	31,798	4%
Civil Engineering	13,911	8%	28,289	3%
AutoCAD	13,276	8%	72,766	8%

Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Communications	83,054	50%	46,771	5%
Management	68,073	41%	122,539	14%
Operations	48,302	29%	70,033	8%
Leadership	45,619	27%	86,436	10%
Planning	40,904	24%	34,590	4%
Coordinating	36,037	22%	26,005	3%
Microsoft Office	36,025	22%	120,437	14%
Scheduling	34,742	21%	27,814	3%
Problem Solving	34,107	20%	18,083	2%
Microsoft Excel	30,788	18%	86,179	10%

Top Software Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Microsoft Office	36,025	22%	120,437	14%
Microsoft Excel	30,788	18%	86,179	10%
Microsoft Outlook	16,374	10%	15,626	2%
Microsoft PowerPoint	14,669	9%	49,351	6%
AutoCAD	13,276	8%	72,766	8%
Microsoft Word	10,555	6%	63,737	7%
Microsoft Project	8,469	5%	14,390	2%
Procore	6,284	4%	4,094	0%
Python (Programming Language)	6,097	4%	3,699	0%
Project Management Software	5,981	4%	968	0%

Top Qualifications

Qualification	Postings with Qualification
Project Management Professional Certification	7,212
Professional Engineer	4,141
30-Hour OSHA General Industry Card	3,711
Security Clearance	3,041
OSHA Certification	2,407
10-Hour OSHA General Industry Card	2,405
Licensed Professional Engineer	2,312
LEED Accredited Professional (AP)	2,263
Bachelor Of Science in Business	2,170
Secret Clearance	1,737

Appendix A (Occupations)

Code	Description	Code	Description
17-3011	Architectural and Civil Drafters	17-3031	Surveying and Mapping Technicians
17-3012	Electrical and Electronics Drafters	11-9021	Construction Managers
17-3013	Mechanical Drafters	47-4011	Construction and Building Inspectors
17-3021	Aerospace Engineering and Operations Technologists and Technicians	17-3029	Engineering Technologists and Technicians, Except Drafters, All Other
17-3026	Industrial Engineering Technologists and Technicians	17-3023	Electrical and Electronic Engineering Technologists and Technicians
17-3027	Mechanical Engineering Technologists and Technicians	17-3025	Environmental Engineering Technologists and Technicians
17-3028	Calibration Technologists and Technicians	17-3022	Civil Engineering Technologists and Technicians
17-1022	Surveyors	17-3024	Electro-Mechanical and Mechatronics Technologists and Technicians