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## Architectural Drafters

### Louisiana

## Summary of Job Duties

**Architectural Drafters** [Video](#) - Prepare detailed drawings of architectural designs and plans for buildings and structures according to specifications provided by architect.

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Detailed Job Description

**Architectural Drafters** Drafters prepare technical drawings and plans.

Drafters use software to convert the designs of architects and engineers into technical drawings. Most workers specialize in architectural, civil, electrical, or mechanical drafting and use technical drawings to help design everything from microchips to skyscrapers.

### Duties

Drafters typically do the following:

- Design plans using computer-aided design (CAD) software
- Work from rough sketches and specifications created by engineers and architects
- Design products with engineering and manufacturing techniques
- Add details to architectural plans from their knowledge of building techniques
- Specify dimensions, materials, and procedures for new products
- Work under the supervision of engineers or architects

Many drafters are referred to as CAD operators. Using CAD systems, drafters create and store technical drawings digitally. These drawings contain information on how to build a structure or machine, the dimensions of the project, and what materials are needed to complete the project.

Drafters work with CAD so they can create schematics that can be viewed, printed, or programmed directly into building information modeling (BIM) systems. These systems allow drafters, architects, construction managers, and engineers to create and collaborate on digital models of physical buildings and machines. Through three-dimensional rendering, BIM software allows designers and

engineers to see how different elements in their projects work together.

The following are examples of types of drafters:

Architectural drafters draw architectural and structural features of buildings for construction projects. These workers may specialize in a type of building, such as residential or commercial. They may also specialize by the materials used, such as steel, wood, or reinforced concrete.

Civil drafters prepare topographical maps used in construction and civil engineering projects, such as highways, bridges, and flood-control projects.

Electrical drafters prepare wiring diagrams that construction workers use to install and repair electrical equipment and wiring in power plants, electrical distribution systems, and residential and commercial buildings.

Electronics drafters produce wiring diagrams, assembly diagrams for circuit boards, and layout drawings used in manufacturing and in installing and repairing electronic devices and components.

Mechanical drafters prepare layouts that show the details for a wide variety of machinery and mechanical tools and devices, such as medical equipment. These layouts indicate dimensions, fastening methods, and other requirements needed for assembly. Mechanical drafters sometimes create production molds.

Source: [U.S. Department of Labor Bureau of Labor Statistics](#)

## Job Zone

The section below shows the job zone information for Architectural Drafters. Job Zone Four: Considerable Preparation Needed.

Education	Experience	Training
Most of these occupations require a four-year bachelor's degree, but some do not.	A considerable amount of work-related skill, knowledge, or experience is needed for these occupations. For example, an accountant must complete four years of college and work for several years in accounting to be considered qualified.	Employees in these occupations usually need several years of work-related experience, on-the-job training, and/or vocational training.

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Jobs Available

This section shows the number of job openings advertised online in Louisiana for Architectural Drafters and for the related occupational group of Architecture and Engineering Occupations on November 23, 2020 (Jobs De-duplication Level 2).

Occupation	Job Openings
Architectural Drafters	<u>13</u>
Architecture and Engineering Occupations	<u>726</u>

Source: Online advertised jobs data

## Monthly Job Count

This section shows the number of job openings advertised online for Architectural Drafters in Louisiana October, 2020 (Jobs De-duplication Level 2).

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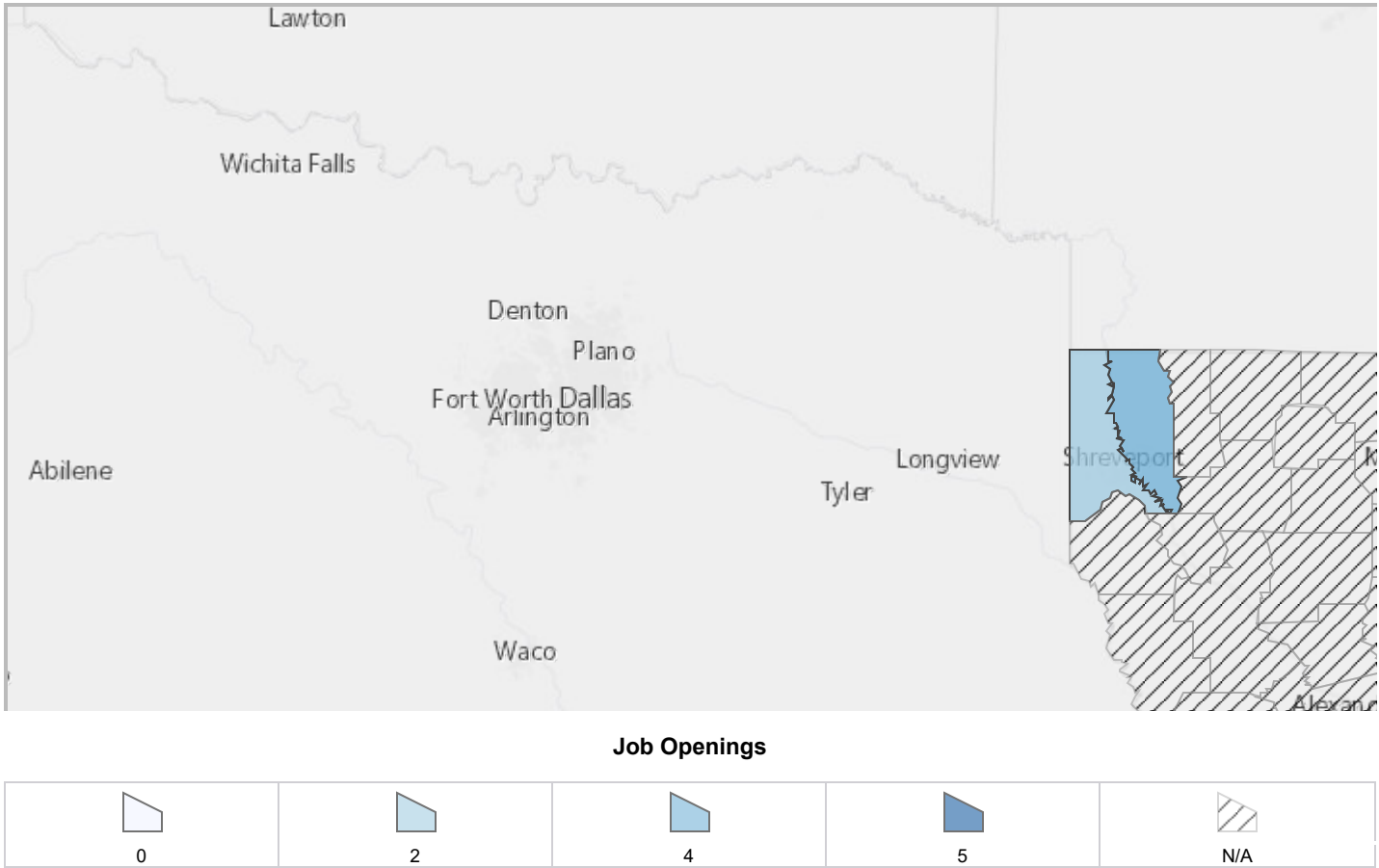
Occupation	Job Openings
Architectural Drafters 	22

 GREEN OCCUPATIONS

Source: Online advertised jobs data

## Jobs Area Distribution

This section shows the distribution of number of job openings advertised online for Architectural Drafters in Louisiana by parishes on November 23, 2020 (Jobs De-duplication Level 2).







Job Source: Online advertised jobs data

Wage Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Data is from a 2019 survey.

## Jobs in Related Occupations

This section shows the number of job openings advertised online in Louisiana for occupations related to Architectural Drafters on November 23, 2020 (Jobs De-duplication Level 2).

Rank	Occupation	Median Wage	Job Openings	*Related By
1	<a href="#">Database Administrators</a> 	N/A	<u>29</u>	O*NET
2	<a href="#">Interior Designers</a>	\$39,510	<u>26</u>	O*NET
3	<a href="#">Electronics Engineering Technicians</a> 	\$57,589	<u>19</u>	SOC4
4	<a href="#">Electrical Engineering Technicians</a> 	\$57,589	<u>17</u>	SOC4
5	Architectural Drafters 	\$50,965	<u>13</u>	N/A
6	<a href="#">Surveying Technicians</a>	\$37,697	<u>12</u>	SOC4
7	<a href="#">Computer Network Architects</a>	N/A	<u>10</u>	O*NET

Rank	Occupation	Median Wage	Job Openings	*Related By
8	<u>Industrial Engineering Technicians</u>	\$83,502	<u>10</u>	SOC4
9	<u>Drafters, All Other</u>	\$53,560	<u>8</u>	SOC4
10	<u>Web Developers</u>	N/A	<u>7</u>	O*NET
11	<u>Mechanical Engineering Technicians</u>	\$75,598	<u>5</u>	SOC4
12	<u>Landscape Architects</u>	\$56,484	<u>4</u>	O*NET
13	<u>Electro-Mechanical Technicians</u>	\$65,257	<u>4</u>	SOC4
14	<u>Marine Architects</u>	\$81,140	<u>3</u>	O*NET
15	<u>Electrical Drafters</u>	\$64,801	<u>3</u>	O*NET
16	<u>Mechanical Drafters</u>	\$58,355	<u>3</u>	O*NET
17	<u>Environmental Engineering Technicians</u> 	\$44,182	<u>3</u>	SOC4
18	<u>Non-Destructive Testing Specialists</u>	N/A	<u>3</u>	SOC4
19	<u>Manufacturing Production Technicians</u>	N/A	<u>3</u>	SOC4
20	<u>Commercial and Industrial Designers</u>	\$89,185	<u>3</u>	O*NET
21	<u>Electronic Drafters</u>	\$64,801	<u>2</u>	O*NET
22	<u>Civil Engineering Technicians</u>	\$53,863	<u>2</u>	O*NET
23	<u>Engineering Technicians, Except Drafters, All Other</u>	N/A	<u>2</u>	SOC4
24	<u>Graphic Designers</u>	\$43,621	<u>2</u>	O*NET
25	<u>Architects, Except Landscape and Naval</u> 	\$74,634	<u>1</u>	O*NET
26	<u>Civil Drafters</u>	\$50,965	<u>1</u>	O*NET
27	<u>Robotics Technicians</u>	\$65,257	<u>1</u>	SOC4
28	<u>Museum Technicians and Conservators</u>	\$19,779	<u>1</u>	O*NET
29	<u>Jewelers</u>	\$33,916	<u>1</u>	O*NET

BRIGHT OUTLOOK NATIONALLY | GREEN OCCUPATIONS

Job Source: Online advertised jobs data

\*Related By: O\*NET™ - The Occupational Information Network. O\*NET is a registered trademark of the US Department of Labor/Employment and Training Administration.

SOC4 - Occupational grouping based on 1st 4 digits of the Standard Occupational Classification system.

### Candidates Available

This section shows potential candidates in the workforce system in Louisiana for Architectural Drafters and for the related occupational group of Architecture and Engineering Occupations on November 23, 2020.

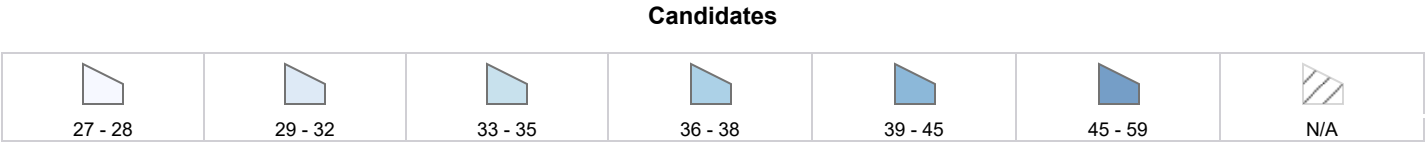
Occupation	Candidates
Architectural Drafters	102
Architecture and Engineering Occupations	3,460

Source: Individuals with active résumés in the workforce system.

### Candidate Area Distribution

This section shows the distribution of potential candidates in the workforce system for Architectural Drafters in Louisiana by parishes on November 23, 2020.

Rank	Area Name	Median Wage	Candidates
1	<u>Jefferson Parish</u>	\$50,965 state level wages	59
2	<u>Orleans Parish</u>	\$50,965 state level wages	58
3	<u>St. Charles Parish</u>	\$50,965 state level wages	45
4	<u>East Baton Rouge Parish</u>	\$50,965 state level wages	38
5	<u>St. Bernard Parish</u>	\$50,965 state level wages	38
6	<u>St. Tammany Parish</u>	\$50,965 state level wages	37
7	<u>Lafayette Parish</u>	\$50,965 state level wages	36
8	<u>Plaquemines Parish</u>	\$50,965 state level wages	36
9	<u>Ascension Parish</u>	\$50,965 state level wages	35
10	<u>St. James Parish</u>	\$50,965 state level wages	35



Candidate Source: Individuals with active résumés in the workforce system.

Wage Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Data is from a 2019 survey.

## Candidates in Related Occupations

This section shows how many potential candidates in the workforce system were looking for work in Louisiana in occupations related to Architectural Drafters on November 23, 2020.

Rank	Occupation	Median Wage	Candidates	*Related By
1	<a href="#">Manufacturing Production Technicians</a>	N/A	380	SOC4
2	<a href="#">Graphic Designers</a>	\$43,621	273	O*NET
3	<a href="#">Electronics Engineering Technicians</a>	\$57,589	172	SOC4
4	<a href="#">Drafters, All Other</a>	\$53,560	169	SOC4
5	<a href="#">Non-Destructive Testing Specialists</a>	N/A	133	SOC4
6	<a href="#">Mechanical Drafters</a>	\$58,355	130	O*NET
7	<a href="#">Industrial Engineering Technicians</a>	\$83,502	111	SOC4
8	<a href="#">Architectural Drafters</a>	\$50,965	102	N/A
9	<a href="#">Electrical Engineering Technicians</a>	\$57,589	96	SOC4
10	<a href="#">Commercial and Industrial Designers</a>	\$89,185	89	O*NET
11	<a href="#">Database Administrators</a>	N/A	88	O*NET
12	<a href="#">Surveying Technicians</a>	\$37,697	81	SOC4
13	<a href="#">Aerospace Engineering and Operations Technicians</a>	N/A	76	SOC4
14	<a href="#">Civil Drafters</a>	\$50,965	67	O*NET
15	<a href="#">Civil Engineering Technicians</a>	\$53,863	62	O*NET

Rank	Occupation	Median Wage	Candidates	*Related By
16	<u>Engineering Technicians, Except Drafters, All Other</u>	N/A	56	SOC4
17	<u>Electrical Drafters</u>	\$64,801	55	O*NET
18	<u>Electro-Mechanical Technicians</u> 🌱	\$65,257	52	SOC4
19	<u>Architects, Except Landscape and Naval</u> 🌟 🌱	\$74,634	51	O*NET
20	<u>Mechanical Engineering Technicians</u>	\$75,598	51	SOC4
21	<u>Industrial Engineering Technologists</u> 🌱	N/A	47	SOC4
22	<u>Interior Designers</u>	\$39,510	45	O*NET
23	<u>Environmental Engineering Technicians</u> 🌟 🌱	\$44,182	44	SOC4
24	<u>Web Developers</u> 🌟	N/A	42	O*NET
25	<u>Computer Network Architects</u>	N/A	42	O*NET
26	<u>Automotive Engineering Technicians</u> 🌱	\$75,598	42	SOC4
27	<u>Multimedia Artists and Animators</u>	\$59,121	39	O*NET
28	<u>Jewelers</u>	\$33,916	25	O*NET
29	<u>Landscape Architects</u> 🌱	\$56,484	23	O*NET
30	<u>Electronic Drafters</u>	\$64,801	23	O*NET
31	<u>Set and Exhibit Designers</u>	\$46,994	22	O*NET
32	<u>Robotics Technicians</u> 🌱	\$65,257	19	SOC4
33	<u>Electronics Engineering Technologists</u> 🌱	N/A	19	SOC4
34	<u>Electrical Engineering Technologists</u> 🌱	N/A	17	SOC4
35	<u>Geographic Information Systems Technicians</u> 🌟 🌱	N/A	16	O*NET
36	<u>Cartographers and Photogrammetrists</u> 🌟	\$55,539	12	O*NET
37	<u>Mechanical Engineering Technologists</u> 🌱	N/A	11	SOC4
38	<u>Electromechanical Engineering Technologists</u> 🌱	N/A	6	SOC4
39	<u>Fuel Cell Technicians</u> 🌱	N/A	5	SOC4
40	<u>Museum Technicians and Conservators</u> 🌟	\$19,779	5	O*NET
41	<u>Marine Architects</u> 🌟	\$81,140	4	O*NET
42	<u>Manufacturing Engineering Technologists</u> 🌱	N/A	4	SOC4
43	<u>Mapping Technicians</u>	\$37,697	4	O*NET
44	<u>Desktop Publishers</u>	\$24,193	3	O*NET
45	<u>Electrical and Electronic Engineering Technicians</u>	\$57,589	2	SOC4
46	<u>Photonics Technicians</u> 🌱	N/A	2	SOC4
47	<u>Electrical and Electronics Drafters</u>	\$64,801	1	SOC4
48	<u>Nanotechnology Engineering Technicians</u> 🌱	N/A	1	SOC4

Candidate Source: Individuals with active résumés in the workforce system.

\*Related By: O\*NET™ - The Occupational Information Network. O\*NET is a registered trademark of the US Department of Labor/Employment and Training Administration.

SOC4 - Occupational grouping based on 1st 4 digits of the Standard Occupational Classification system.

## Jobs and Candidates Available

This section shows the number of job openings advertised online, as well as potential candidates in the workforce system in Louisiana for Architectural Drafters and for the related occupational group of Architecture and Engineering Occupations on November 23, 2020 (Jobs De-duplication Level 2).

Occupation	Job Openings	Candidates	Candidates per Job
Architectural Drafters	<u>13</u>	102	7.85
Architecture and Engineering Occupations	<u>726</u>	3,460	4.77

Job Source: Online advertised jobs data

Candidate Source: Individuals with active résumés in the workforce system.

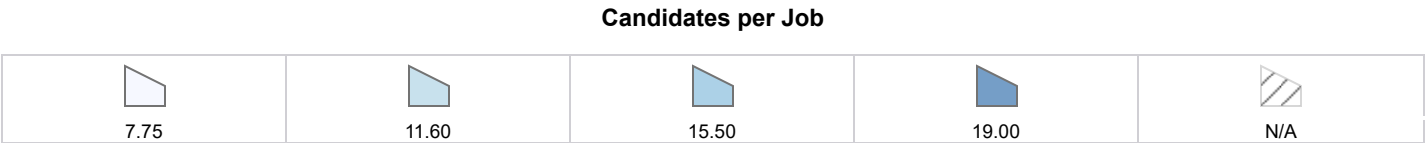
## Jobs and Candidates Area Distribution

This section shows the distribution of number of job openings advertised online, as well as potential candidates in the workforce system for Architectural Drafters in Louisiana by parishes on November 23, 2020 (Jobs De-duplication Level 2).

Rank	Area Name	Median Wage	Job Openings	Candidates	Candidates per Job
1	<u>East Baton Rouge Parish</u>	\$50,965 state level wages	<u>2</u>	38	19.00
2	<u>Caddo Parish</u>	\$50,965 state level wages	<u>2</u>	31	15.50
3	<u>Orleans Parish</u>	\$50,965 state level wages	<u>5</u>	58	11.60
4	<u>Bossier Parish</u>	\$50,965 state level wages	<u>4</u>	31	7.75
5	<u>Acadia Parish</u>	\$50,965 state level wages	0	30	N/A
6	<u>Ascension Parish</u>	\$50,965 state level wages	0	35	N/A
7	<u>Assumption Parish</u>	\$50,965 state level wages	0	29	N/A
8	<u>Avoyelles Parish</u>	\$50,965 state level wages	0	26	N/A



Rank	Area Name	Median Wage	Job Openings	Candidates	Candidates per Job
9	<a href="#">Bienville Parish</a>	\$50,965 state level wages	0	27	N/A
10	<a href="#">Calcasieu Parish</a>	\$50,965 state level wages	0	26	N/A



Job Source: Online advertised jobs data  
Candidate Source: Individuals with active résumés in the workforce system.  
Wage Source: Labor Market Statistics, Occupational Employment Statistics Program  
The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Data is from a 2019 survey.

## National Supply and Demand Summary

**Architectural Drafters** Overall employment of drafters is projected to grow 7 percent from 2016 to 2026. Employment growth will vary by specialty. (See table below.)

Growth in the engineering services and construction industries is expected to account for most new jobs for drafters. However, computer-aided design (CAD) and building information modeling (BIM) technologies allow engineers and architects to perform many tasks that used to be done by drafters, which is expected to temper demand for all drafters.

### Job Prospects

Overall competition for jobs is expected to be strong.

Specifically, architectural and civil drafters may experience more competition for jobs than mechanical or electrical drafters because of the relatively high number of students graduating in those drafting specialties. Typically, the number of graduates in architectural and civil programs greatly exceeds the number of available positions.

Demand for particular drafting specialties varies across the country because jobs depend on the needs of local industries. Job prospects for mechanical drafters should be best in large manufacturing hubs.

Because many drafting jobs are in construction and manufacturing, job opportunities for drafters will be sensitive to fluctuations in the overall economy.

Candidates proficient in CAD and BIM are likely to have better job opportunities.

Source: [U.S. Department of Labor Bureau of Labor Statistics](#)

## Employers by Number of Job Openings

This section shows the employers with the highest number of job openings advertised online for Architectural Drafters in Louisiana on November 23, 2020 (Jobs De-duplication Level 2).

Rank	Employer Name	Job Openings
1	Ochsner Health System	<u>3</u>
2	Sabre Industries, Inc.	<u>2</u>
3	Booz Allen Hamilton Inc	<u>1</u>
4	CoStar Group, Inc.	<u>1</u>
5	EMCOR Group, Inc.	<u>1</u>
6	Grace Hebert Curtis Architects	<u>1</u>
7	Horne LLP	<u>1</u>
8	Jean Simpson Personnel Services - Shreveport	<u>1</u>
9	Moffatt and Nichol	<u>1</u>

Source: Online advertised jobs data

## Advertised Job Skills

This section shows the top advertised detailed job skills found in job openings advertised online for Architectural Drafters in Louisiana in October, 2020. (Jobs De-duplication Level 1)

Rank	Advertised Detailed Job Skill	Advertised Skill Group	Job Opening Match Count
1	Attention to detail	Basic Skills	<u>7</u>
2	Self motivated	Basic Skills	<u>7</u>
3	Provide technical support	Project Engineer Skills	<u>4</u>
4	Interpersonal skills	Interpersonal Skills	<u>3</u>
5	Must be flexible	Basic Skills	<u>3</u>
6	Effective listening skills	Interpersonal Skills	<u>3</u>
7	Organizational skills	Basic Skills	<u>2</u>
8	Problem solving	Basic Skills	<u>2</u>
9	Space planning	Interior Designer Skills	<u>2</u>
10	Calculate the cost of labor	Cost Estimator Skills	<u>1</u>

Source: Online advertised jobs data

## Advertised Tools and Technology

This section shows the top advertised detailed tools and technologies found in job openings advertised online for Architectural Drafters in Louisiana in October, 2020. (Jobs De-duplication Level 1)

Rank	Advertised Detailed Tool or Technology	Advertised Tool and Technology Group	Job Opening Match Count
1	Microsoft (MS) Office	Office Suite Software	<u>10</u>
2	Computer assisted design (CAD) software	Computer Aided Design (CAD) Software	<u>4</u>
3	Keyboard	Keyboards	<u>3</u>
4	YouTube.com	Video Streaming System	<u>1</u>
5	Microsoft Word	Word Processing Software	<u>1</u>
6	Adobe Systems Adobe Creative Suite software	Development Environment Software	<u>1</u>
7	Apple Macintosh OS	Operating System Software	<u>1</u>

Source: Online advertised jobs data

## Typical Job Skills

This section shows the job skills that are related to Architectural Drafters.

Rank	Typical Job Skills	Typical Skill Category
1	Create graphical representations of structures or landscapes	Mental Processes
2	Operate computer systems	Work Output
3	Evaluate technical data to determine effect on designs or plans	Mental Processes
4	Monitor processes for compliance with standards	Information Input
5	Provide technical guidance to other personnel	Interacting With Others
6	Recommend technical design or process changes to improve efficiency, quality, or performance	Interacting With Others
7	Verify mathematical calculations	Mental Processes
8	Direct design or development activities	Interacting With Others
9	Supervise engineering or other technical personnel	Interacting With Others
10	Determine operational methods	Mental Processes
11	Estimate technical or resource requirements for development or production projects	Mental Processes
12	Estimate operational costs	Information Input
13	Prepare contracts, disclosures, or applications	Work Output
14	Prepare technical reports for internal use	Work Output
15	Collect data about project sites	Information Input
16	Create physical models or prototypes	Mental Processes

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Personal Skills

This section shows the personal skills that are most useful for Architectural Drafters. Click on a link in the Personal Skills column to view more detailed information.

Personal Skill	Skill Description	Rank by Importance (Out of 100)
<a href="#">Critical Thinking</a>	Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.	72
<a href="#">Active Listening</a>	Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.	69
<a href="#">Speaking</a>	Talking to others to convey information effectively.	60
<a href="#">Reading Comprehension</a>	Understanding written sentences and paragraphs in work related documents.	60
<a href="#">Judgment and Decision Making</a>	Considering the relative costs and benefits of potential actions to choose the most appropriate one.	53
<a href="#">Systems Analysis</a>	Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.	53
<a href="#">Writing</a>	Communicating effectively in writing as appropriate for the needs of the audience.	53
<a href="#">Mathematics</a>	Using mathematics to solve problems.	50
<a href="#">Active Learning</a>	Understanding the implications of new information for both current and future problem-solving and decision-making.	50
<a href="#">Monitoring</a>	Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.	50
<a href="#">Coordination</a>	Adjusting actions in relation to others' actions.	50
<a href="#">Complex Problem Solving</a>	Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.	50
<a href="#">Time Management</a>	Managing one's own time and the time of others.	50
<a href="#">Social Perceptiveness</a>	Being aware of others' reactions and understanding why they react as they do.	47
<a href="#">Learning Strategies</a>	Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.	47
<a href="#">Persuasion</a>	Persuading others to change their minds or behavior.	44

Personal Skill	Skill Description	Rank by Importance (Out of 100)
<u>Systems Evaluation</u>	Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.	44
<u>Quality Control Analysis</u>	Conducting tests and inspections of products, services, or processes to evaluate quality or performance.	44
<u>Instructing</u>	Teaching others how to do something.	41
<u>Operations Analysis</u>	Analyzing needs and product requirements to create a design.	41
<u>Service Orientation</u>	Actively looking for ways to help people.	38
<u>Negotiation</u>	Bringing others together and trying to reconcile differences.	31
<u>Management of Material Resources</u>	Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to do certain work.	31
<u>Management of Personnel Resources</u>	Motivating, developing, and directing people as they work, identifying the best people for the job.	31
<u>Programming</u>	Writing computer programs for various purposes.	28
<u>Operation Monitoring</u>	Watching gauges, dials, or other indicators to make sure a machine is working properly.	28
<u>Science</u>	Using scientific rules and methods to solve problems.	25
<u>Operation and Control</u>	Controlling operations of equipment or systems.	22
<u>Management of Financial Resources</u>	Determining how money will be spent to get the work done, and accounting for these expenditures.	22
<u>Troubleshooting</u>	Determining causes of operating errors and deciding what to do about it.	19
<u>Technology Design</u>	Generating or adapting equipment and technology to serve user needs.	16
<u>Equipment Selection</u>	Determining the kind of tools and equipment needed to do a job.	16
<u>Installation</u>	Installing equipment, machines, wiring, or programs to meet specifications.	0
<u>Repairing</u>	Repairing machines or systems using the needed tools.	0
<u>Equipment Maintenance</u>	Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.	0

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

### Typical Education Requirements

**Architectural Drafters** Architectural Drafters usually require at least an Associate's degree. However, not all employers may make this a hiring requirement.

Source: This information is based on the BLS Occupational Outlook Handbook (OOH).

## Required Level of Education

This section shows the results of a national survey listing the most common required level of education for Architectural Drafters.

Rank	Required Level of Education	Percentage of Respondents
1	Bachelor's Degree	54.59%
2	Master's Degree	25.84%
3	Associate's Degree (or other 2-year degree)	17.85%
4	Post-Secondary Certificate - awarded for training completed after high school (for example, in agriculture or natural resources, computer services, personal or culinary services, engineering technologies, healthcare, construction trades, mechanic and repair technologies, or precision production)	0.91%
5	Some College Courses	0.41%
6	High School Diploma - or the equivalent (for example, GED)	0.41%

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## On The Job Training

This section shows the results of a national survey listing the most common lengths of on the job training for Architectural Drafters.

Rank	On The Job Training	Percentage of Respondents
1	Anything beyond short demonstration, up to and including 1 month	33.06%
2	Over 6 months, up to and including 1 year	28.40%
3	Over 1 month, up to and including 3 months	26.55%
4	Over 3 months, up to and including 6 months	6.83%
5	Over 1 year, up to and including 2 years	2.95%
6	None or short demonstration	1.31%
7	Over 2 years, up to and including 4 years	0.91%

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## On-Site or In-Plant Training

This section shows the results of a national survey listing the most common lengths of on-site or in-plant training for Architectural Drafters.

Rank	On-Site or In-Plant Training	Percentage of Respondents
1	Over 6 months, up to and including 1 year	30.85%

Rank	On-Site or In-Plant Training	Percentage of Respondents
2	None	27.04%
3	Over 1 year, up to and including 2 years	26.14%
4	Up to and including 1 month	7.73%
5	Over 1 month, up to and including 3 months	7.33%
6	Over 3 months, up to and including 6 months	0.91%

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Education Level of Jobs and Candidates


This section shows the minimum level of education requested by employers on job openings advertised online, as well as the educational attainment of potential candidates in the workforce system that are looking for jobs as Architectural Drafters in Louisiana on November 23, 2020. There were 6 job openings advertised online that did not specify a minimum education requirement (Jobs De-duplication Level 2).

Rank	Education Level	Job Openings	Percentage of Job Openings	Potential Candidates	Percentage of Potential Candidates
1	High School Diploma or Equivalent	<u>1</u>	7.69%	3	2.94%
2	1 Year of College or a Technical or Vocational School	0	N/A	2	1.96%
3	2 Years of College or a Technical or Vocational School	0	N/A	8	7.84%
4	3 Years of College or a Technical or Vocational School	0	N/A	6	5.88%
5	Vocational School Certificate	<u>1</u>	7.69%	8	7.84%
6	Associate's Degree	0	N/A	38	37.25%
7	Bachelor's Degree	<u>5</u>	38.46%	35	34.31%
8	Master's Degree	0	N/A	1	0.98%
9	Specialized Degree (e.g. MD, DDS)	0	N/A	1	0.98%
10	Not Specified	<u>6</u>	46.15%	0	N/A

Job Source: Online advertised jobs data  
Candidate Source: Individuals with active résumés in the workforce system.


## Education Training Programs

This section shows the Education Training Programs for Architectural Drafters in Louisiana.

Provider Name	Program Name	Location	Tuition	Length	WIOA Eligible
<u>Baton Rouge Community College</u>	<u>Drafting &amp; Design Technology</u> An associate degree	Baton Rouge, LA	\$10,585	5 Semesters	

Provider Name	Program Name	Location	Tuition	Length	WIOA Eligible
<u>Bossier Parish Community College</u>	<u>Computer Drafting and Design - Technical Competency Area</u>	Bossier City, LA	\$1,647	1 Semesters	
<u>Central Louisiana Technical Community College</u>	<u>Drafting and Design Technology.</u> An associate degree	Alexandria, LA	\$10,248	5 Semesters	
<u>Fletcher Technical Community College</u>	<u>Drafting and Design Technology Degree</u> An associate degree	Schriever, LA	\$10,240	5 Semesters	✓
<u>ITI Technical College</u>	<u>Drafting &amp; Design Technology.</u> An associate degree	Baton Rouge, LA	\$29,500	24 Months	✓
<u>Louisiana Delta Community College</u>	<u>Drafting and Design Technology.</u> An associate degree, Employment, A measurable skills gain leading to a credential, A measurable skills gain leading to employment	West Monroe, LA	\$8,948	104 Weeks	✓
<u>Northshore Technical Community College</u>	<u>Drafting &amp; Design Technology (AAS).</u> An associate degree	Lacombe, LA	\$10,258	5 Semesters	✓
<u>Northshore Technical Community College</u>	<u>Drafting&amp;Design Technology - CTS</u> An industry-recognized certificate or certification	Lacombe, LA	\$4,503	2 Semesters	✓
<u>River Parishes Community College - Gonzales Campus</u>	<u>Drafting &amp; Design Technology.</u> An associate degree, A baccalaureate degree, A community college certificate of completion, Employment, A measurable skills gain leading to employment	Gonzales, LA	\$8,611	4 Semesters	✓



Provider Name	Program Name	Location	Tuition	Length	WIOA Eligible
<a href="#">River Parishes Community College - Gonzales Campus</a>	<a href="#">Drafting &amp; Design Technology</a> An associate degree, A baccalaureate degree, A community college certificate of completion, Employment, A measurable skills gain leading to employment	Reserve, LA	\$8,611	4 Semesters	

Source: U.S. Department of Commerce, Bureau of the Census, Midyear Estimates

## Advertised Job Certifications

This section shows the top advertised certification groups found in job openings advertised online for Architectural Drafters in Louisiana in October, 2020. (Jobs De-duplication Level 1)

Rank	Advertised Certification Group	Advertised Certification Sub-Category	Job Opening Match Count
1	State Licenses for Architecture and Design	Architecture	1
2	National Council of Examiners for Engineering and Surveying (NCEES)	Engineering	1

Source: Online advertised jobs data

## Training Program Completers

There is no data available for Architectural Drafters in Louisiana.

## National Education, Training, Licensing and Qualifications

### Architectural Drafters Education

Drafters generally need to complete postsecondary education in drafting. This is typically done through a 2-year associate's degree from a technical institute or community college.

Technical institutes offer instruction in design fundamentals, sketching, and computer-aided design (CAD) software and award certificates or diplomas upon completion. Programs vary in length but are generally 2 years of full-time education. The types of courses offered will also vary by institution. Some institutions may specialize in only one type of drafting, such as mechanical or architectural drafting.

Community colleges offer programs similar to those in technical institutes that lead to an associate of applied science in drafting or related degree. After completing an associate's degree program, graduates may get jobs as drafters or continue their education in a related field at a 4-year college. Most 4-year colleges do not offer training in drafting, but they do offer classes in engineering, architecture, and mathematics.

To prepare for postsecondary education, high school students may find it useful to take courses in mathematics, science, computer technology, design, computer graphics, and where available, drafting.

Licenses, Certifications, and Registrations

The American Design Drafting Association (ADDA) offers certification for drafters. Although not mandatory, certification demonstrates competence and knowledge of nationally recognized practices. Certifications are offered for several specialties, including architectural, civil, and mechanical drafting.

Important Qualities

**Creativity.** Drafters must be able to turn plans and ideas into technical drawings that will guide the creation of real buildings, tools, and systems.

**Detail oriented.** Drafters must pay close attention to details so that the plans they convert are technically accurate according to the outlined specifications.

**Interpersonal skills.** Drafters work closely with architects, engineers, and other designers to make sure that final plans are accurate. This requires the ability to communicate effectively and work well with others.

**Math skills.** Drafters work on technical drawings. They may be required to solve mathematical calculations involving factors such as angles, weights, and costs.

**Technical skills.** Drafters in all specialties must be able to use computer software, such as CAD, and work with database tools, such as building information modeling (BIM).

**Time-management skills.** Drafters often work under strict deadlines. As a result, they must work efficiently to produce the required output according to set schedules.

Source: [U.S. Department of Labor Bureau of Labor Statistics](#)

Typical Work Experience Requirements

**Architectural Drafters** Employees in these occupations usually need several years of work-related experience, on-the-job training, and/or vocational training.

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

Related Work Experience

This section shows the results of a national survey listing the most common related work experience for Architectural Drafters.

Rank	Related Work Experience	Percentage of Respondents
1	Over 6 months, up to and including 1 year	33.87%
2	Over 8 years, up to and including 10 years	32.15%
3	None	26.64%
4	Over 4 years, up to and including 6 years	2.00%
5	Over 1 year, up to and including 2 years	1.76%
6	Over 2 years, up to and including 4 years	1.36%
7	Over 3 months, up to and including 6 months	0.91%
8	Over 10 years	0.91%
9	Up to and including 1 month	0.41%

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Work Experience of Jobs and Candidates

This section shows the minimum required work experience requested by employers on job openings advertised online, as well as the experience level of potential candidates in the workforce system that are looking for jobs as Architectural Drafters in Louisiana on November 23, 2020. There were 6 job openings advertised online that did not specify a minimum experience requirement (Jobs De-duplication Level 2).

Rank	Experience	Job Openings	Percentage of Job Openings	Potential Candidates	Percentage of Potential Candidates
1	Not Specified	6	46.15%	0	N/A
2	Entry Level	1	7.69%	0	N/A
3	Less than 1 year	0	N/A	5	4.90%
4	1 Year to 2 Years	0	N/A	2	1.96%
5	2 Years to 5 Years	4	30.77%	6	5.88%
6	5 Years to 10 Years	2	15.38%	12	11.77%
7	More than 10 Years	0	N/A	77	75.49%

Job Source: Online advertised jobs data

Candidate Source: Individuals with active résumés in the workforce system.

## Current Job Order Wage Information

The employer has NOT indicated a salary range for this job. The information below shows statistics on typical salaries in the local labor market for Architectural Drafters. This data is NOT an indication of what this employer is willing to pay for this job.

## Employment Wage Statistics

This section shows the estimated employment wage statistics for individuals in Louisiana employed for Architectural and Civil Drafters (no data available for Architectural Drafters) in 2019.

Rate Type / Statistical Type	Entry level	Median	Experienced
Annual wage or salary	\$33,986	\$50,965	\$71,646
Hourly wage	\$16.34	\$24.50	\$34.45

Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Entry level and Experienced wage rates represent the means of the lower 1/3 and upper 2/3 of the wage distribution, respectively. Data is from an annual survey.

## Wage Rates on Advertised Jobs

This section shows a statistical breakdown of available wage data on the 13 job openings advertised online for Architectural Drafters in Louisiana that posted a salary on November 23, 2020.

Rate Type / Statistical Type	Entry Level	Median	Experienced
Annual wage or salary	N/A	N/A	N/A

Rate Type / Statistical Type	Entry Level	Median	Experienced
Hourly Wage	N/A	N/A	N/A

Source: Online advertised jobs data

Note: This information is based on actual job orders and is not based on a statistically valid labor market survey. Hourly wage rate calculations in this section assume a 40 hour work week.

## Desired Salary of Available Candidates

This section shows the desired salary of potential candidates in the workforce system that are looking for jobs as Architectural Drafters in Louisiana on November 23, 2020.

Rank	Desired Salary	Potential Candidates	Percentage of Potential Candidates
1	Not Specified	31	29.81%
2	\$5,000 - \$19,999	1	0.96%
3	\$20,000 - \$34,999	17	16.35%
4	\$35,000 - \$49,999	29	27.89%
5	\$50,000 - \$64,999	14	13.46%
6	\$65,000 - \$79,999	7	6.73%
7	\$80,000 - \$94,999	3	2.89%
8	\$95,000 or more	2	1.92%


Source: Individuals with active résumés in the workforce system.

## Wage Rates Area Distribution

There is no data available for Architectural and Civil Drafters (no data available for Architectural Drafters) in Louisiana.

## Wage Rates in Related Occupations

This section shows a comparison of 2019 median annual rates for occupations that are in the same occupational family as Architectural Drafters for Louisiana.

Rank	Occupation	Median	*Related By
1	<a href="#">Commercial and Industrial Designers</a> 	\$89,185	O*NET
2	<a href="#">Industrial Engineering Technicians</a> 	\$83,502	SOC4
3	<a href="#">Marine Architects</a> 	\$81,140	O*NET
4	<a href="#">Mechanical Engineering Technicians</a>	\$75,598	SOC4
5	<a href="#">Automotive Engineering Technicians</a> 	\$75,598	SOC4
6	<a href="#">Architects, Except Landscape and Naval</a>  	\$74,634	O*NET
7	<a href="#">Electro-Mechanical Technicians</a> 	\$65,257	SOC4
8	<a href="#">Robotics Technicians</a> 	\$65,257	SOC4
9	<a href="#">Electrical and Electronics Drafters</a>	\$64,801	SOC4
10	<a href="#">Electronic Drafters</a>	\$64,801	O*NET
11	<a href="#">Electrical Drafters</a>	\$64,801	O*NET
12	<a href="#">Multimedia Artists and Animators</a>	\$59,121	O*NET

Rank	Occupation	Median	*Related By
13	<u>Mechanical Drafters</u>	\$58,355	O*NET
14	<u>Electrical and Electronic Engineering Technicians</u>	\$57,589	SOC4
15	<u>Electronics Engineering Technicians</u> 🌿	\$57,589	SOC4
16	<u>Electrical Engineering Technicians</u> 🌿	\$57,589	SOC4
17	<u>Landscape Architects</u> 🌿	\$56,484	O*NET
18	<u>Cartographers and Photogrammetrists</u> 🌟	\$55,539	O*NET
19	<u>Civil Engineering Technicians</u>	\$53,863	O*NET
20	<u>Drafters, All Other</u>	\$53,560	SOC4
21	<u>Architectural and Civil Drafters</u>	\$50,965	SOC4
22	<u>Architectural Drafters</u> 🌿	\$50,965	N/A
23	<u>Civil Drafters</u>	\$50,965	O*NET
24	<u>Set and Exhibit Designers</u>	\$46,994	O*NET
25	<u>Environmental Engineering Technicians</u> 🌟 🌿	\$44,182	SOC4
26	<u>Graphic Designers</u>	\$43,621	O*NET
27	<u>Interior Designers</u>	\$39,510	O*NET
28	<u>Surveying and Mapping Technicians</u>	\$37,697	SOC4
29	<u>Surveying Technicians</u>	\$37,697	SOC4
30	<u>Mapping Technicians</u>	\$37,697	O*NET
31	<u>Jewelers</u>	\$33,916	O*NET
32	<u>Desktop Publishers</u>	\$24,193	O*NET
33	<u>Museum Technicians and Conservators</u> 🌟	\$19,779	O*NET

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Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Entry level and Experienced wage rates represent the means of the lower 1/3 and upper 2/3 of the wage distribution, respectively. Data is from an annual survey.

\*Related By: O\*NET™ - The Occupational Information Network. O\*NET is a registered trademark of the US Department of Labor/Employment and Training Administration.

SOC4 - Occupational grouping based on 1st 4 digits of the Standard Occupational Classification system.

## Wage Rates by Industry

There is no data available for Architectural Drafters in Louisiana.

## National Earnings Data Summary

**Architectural Drafters** The median annual wage for drafters was \$53,480 in May 2016. The median wage is the wage at which half the workers in an occupation earned more than that amount and half earned less. The lowest 10 percent earned less than \$33,910, and the highest 10 percent earned more than \$83,300.

Median annual wages for drafters in May 2016 were as follows:

- Electrical and electronics drafters \$59,970
- Mechanical drafters 54,480
- Architectural and civil drafters 51,640

Drafters, all other 50,470

In May 2016, the median annual wages for drafters in the top industries in which they worked were as follows:

- Administrative and support and waste management and remediation services \$57,080
- Construction 53,730
- Manufacturing 53,010
- Wholesale trade 52,890
- Architectural, engineering, and related services 52,850

Most drafters worked full time in 2016.

Source: [U.S. Department of Labor Bureau of Labor Statistics](#)

## Occupational Employment & Future Employment Outlook

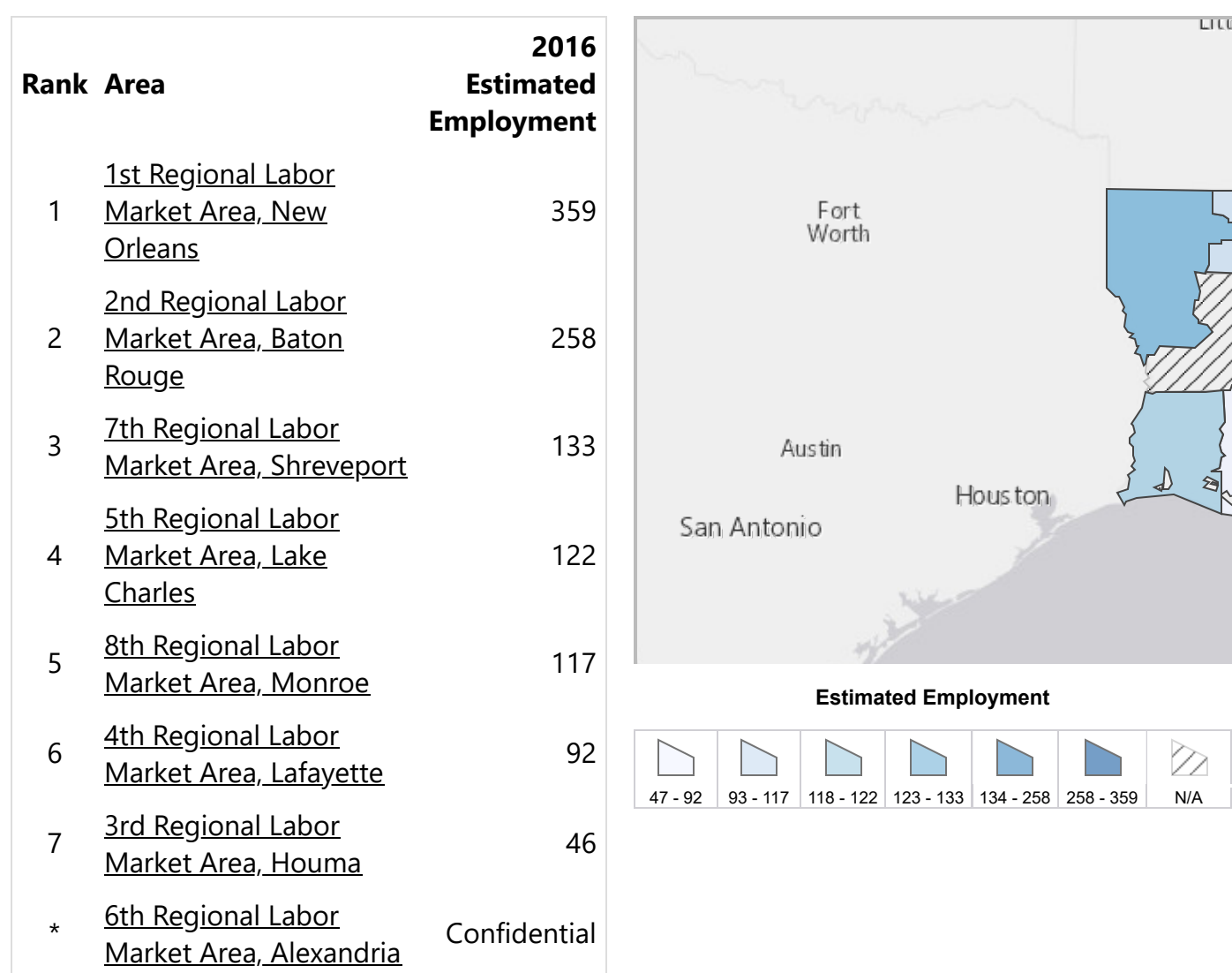
This section shows the long term employment projections for Architectural and Civil Drafters (no data available for Architectural Drafters) in Louisiana from 2016-2026.

Occupation	2016 Estimated Employment	2026 Projected Employment	Total 2016- 2026 Employment Change	2016-2026 Annual Avg. Percent Change
Architectural and Civil Drafters	1,134	1,245	111	0.94%
Total All	2,034,986	2,203,144	168,158	0.80%

Source: Occupational Employment Projections

## Employment Data Area Distribution

This section shows the distribution of the 2016 estimated employment for Architectural and Civil Drafters (no data available for Architectural Drafters) in Louisiana by regional labor market area.






















\* Rank is suppressed for confidential data.

Source: Labor Market Statistics, Occupational Employment Projections Program

# Employment Data in Related Occupations

This section shows the 2016 Estimated Employment in Louisiana for occupations related to Architectural Drafters.

Rank	Occupation	2016 Estimated Employment	*Related By
1	<a href="#">Geographic Information Systems Technicians</a> 🌟🌱	2,873	O*NET
2	<a href="#">Graphic Designers</a>	2,068	O*NET
3	<a href="#">Electrical Engineering Technologists</a> 🌱	1,566	SOC4
4	<a href="#">Electromechanical Engineering Technologists</a> 🌱	1,566	SOC4
5	<a href="#">Electronics Engineering Technologists</a> 🌱	1,566	SOC4
6	<a href="#">Engineering Technicians, Except Drafters, All Other</a>	1,566	SOC4
7	<a href="#">Fuel Cell Technicians</a> 🌱	1,566	SOC4
8	<a href="#">Industrial Engineering Technologists</a> 🌱	1,566	SOC4
9	<a href="#">Manufacturing Engineering Technologists</a> 🌱	1,566	SOC4
10	<a href="#">Manufacturing Production Technicians</a> 🌱	1,566	SOC4
11	<a href="#">Mechanical Engineering Technologists</a> 🌱	1,566	SOC4
12	<a href="#">Nanotechnology Engineering Technicians</a> 🌱	1,566	SOC4
13	<a href="#">Nanotechnology Engineering Technologists</a> 🌱	1,566	SOC4
14	<a href="#">Non-Destructive Testing Specialists</a>	1,566	SOC4

Rank	Occupation	2016 Estimated Employment	*Related By
15	<u>Photonics Technicians</u> 	1,566	SOC4
16	<u>Civil Engineering Technicians</u>	1,551	O*NET
17	<u>Electrical and Electronic Engineering Technicians</u>	1,471	SOC4
18	<u>Electrical Engineering Technicians</u> 	1,471	SOC4
19	<u>Electronics Engineering Technicians</u> 	1,471	SOC4
20	<u>Architects, Except Landscape and Naval</u>  	1,339	O*NET
21	<u>Mapping Technicians</u>	1,272	O*NET
22	<u>Surveying and Mapping Technicians</u>	1,272	SOC4
23	<u>Surveying Technicians</u>	1,272	SOC4
24	<u>Drafters, All Other</u>	1,154	SOC4
25	<u>Architectural and Civil Drafters</u>	1,134	SOC4
26	<u>Architectural Drafters</u> 	1,134	SOC4
27	<u>Civil Drafters</u>	1,134	O*NET
28	<u>Mechanical Drafters</u>	978	O*NET
29	<u>Jewelers</u>	798	O*NET
30	<u>Web Developers</u> 	560	O*NET
31	<u>Multimedia Artists and Animators</u>	531	O*NET
32	<u>Database Administrators</u> 	508	O*NET
33	<u>Interior Designers</u>	483	O*NET
34	<u>Automotive Engineering Technicians</u> 	444	SOC4
35	<u>Mechanical Engineering Technicians</u>	444	SOC4
36	<u>Commercial and Industrial Designers</u> 	423	O*NET
37	<u>Industrial Engineering Technicians</u> 	404	SOC4
38	<u>Environmental Engineering Technicians</u>  	374	SOC4
39	<u>Marine Architects</u> 	256	O*NET
40	<u>Desktop Publishers</u>	247	O*NET
41	<u>Computer Network Architects</u>	246	O*NET
42	<u>Electrical and Electronics Drafters</u>	229	SOC4
43	<u>Electrical Drafters</u>	229	O*NET
44	<u>Electronic Drafters</u>	229	O*NET
45	<u>Museum Technicians and Conservators</u> 	89	O*NET
*	<u>Aerospace Engineering and Operations Technicians</u>	Confidential	SOC4
*	<u>Cartographers and Photogrammetrists</u> 	Confidential	O*NET
*	<u>Electro-Mechanical Technicians</u> 	Confidential	SOC4
*	<u>Landscape Architects</u> 	Confidential	O*NET
*	<u>Robotics Technicians</u> 	Confidential	SOC4
*	<u>Set and Exhibit Designers</u>	Confidential	O*NET



Source: Occupational Employment Projections

\*Related By: O\*NET™ - The Occupational Information Network. O\*NET is a registered trademark of the US Department of Labor/Employment and Training Administration.

SOC4 - Occupational grouping based on 1st 4 digits of the Standard Occupational Classification system.

## Projected Annual Openings

This section shows the long term projected annual openings for Architectural and Civil Drafters (no data available for Architectural Drafters) in Louisiana from 2016 to 2026.

Occupation	Total Annual Average Openings	Annual Average Openings Due to Growth	Annual Average Openings Due to Replacement
Architectural and Civil Drafters	N/A	N/A	N/A
Architecture and Engineering	N/A	N/A	N/A

Source: Labor Market Statistics, Occupational Employment Projections Program

## Projected Annual Openings Area Distribution

This section shows the distribution of the total annual average openings for Architectural and Civil Drafters (no data available for Architectural Drafters) in Louisiana by regional labor market area from 2016 to 2026.

Rank	Area	Total Annual Average Openings
1	<u>1st Regional Labor Market Area, New Orleans</u>	N/A
2	<u>2nd Regional Labor Market Area, Baton Rouge</u>	N/A
3	<u>3rd Regional Labor Market Area, Houma</u>	N/A
4	<u>4th Regional Labor Market Area, Lafayette</u>	N/A
5	<u>5th Regional Labor Market Area, Lake Charles</u>	N/A
6	<u>7th Regional Labor Market Area, Shreveport</u>	N/A
7	<u>8th Regional Labor Market Area, Monroe</u>	N/A
*	<u>6th Regional Labor Market Area, Alexandria</u>	Confidential

There is no total annual average openings data available for Architectural Drafters in Louisiana.

\* Rank is suppressed for confidential data.

Source: Labor Market Statistics, Occupational Employment Projections Program

# Projected Annual Openings in Related Occupations

This section shows the projected total annual average openings in Louisiana for occupations related to Architectural Drafters from 2016 to 2026.

Rank	Occupation	Total Annual Average Openings	*Related By
1	<u>Architects, Except Landscape and Naval</u> 🌟🌿	N/A	O*NET
2	<u>Architectural and Civil Drafters</u>	N/A	SOC4
3	<u>Architectural Drafters</u> 🌿	N/A	SOC4
4	<u>Automotive Engineering Technicians</u> 🌿	N/A	SOC4
5	<u>Civil Drafters</u>	N/A	O*NET
6	<u>Civil Engineering Technicians</u>	N/A	O*NET
7	<u>Commercial and Industrial Designers</u> 🌿	N/A	O*NET
8	<u>Computer Network Architects</u>	N/A	O*NET
9	<u>Database Administrators</u> 🌟	N/A	O*NET
10	<u>Desktop Publishers</u>	N/A	O*NET
11	<u>Drafters, All Other</u>	N/A	SOC4
12	<u>Electrical and Electronic Engineering Technicians</u>	N/A	SOC4
13	<u>Electrical and Electronics Drafters</u>	N/A	SOC4
14	<u>Electrical Drafters</u>	N/A	O*NET
15	<u>Electrical Engineering Technicians</u> 🌿	N/A	SOC4
16	<u>Electrical Engineering Technologists</u> 🌿	N/A	SOC4
17	<u>Electromechanical Engineering Technologists</u> 🌿	N/A	SOC4
18	<u>Electronic Drafters</u>	N/A	O*NET
19	<u>Electronics Engineering Technicians</u> 🌿	N/A	SOC4
20	<u>Electronics Engineering Technologists</u> 🌿	N/A	SOC4
21	<u>Engineering Technicians, Except Drafters, All Other</u>	N/A	SOC4
22	<u>Environmental Engineering Technicians</u> 🌟🌿	N/A	SOC4
23	<u>Fuel Cell Technicians</u> 🌿	N/A	SOC4
24	<u>Geographic Information Systems Technicians</u> 🌟🌿	N/A	O*NET
25	<u>Graphic Designers</u>	N/A	O*NET
26	<u>Industrial Engineering Technicians</u> 🌿	N/A	SOC4
27	<u>Industrial Engineering Technologists</u> 🌿	N/A	SOC4
28	<u>Interior Designers</u>	N/A	O*NET
29	<u>Jewelers</u>	N/A	O*NET
30	<u>Manufacturing Engineering Technologists</u> 🌿	N/A	SOC4
31	<u>Manufacturing Production Technicians</u> 🌿	N/A	SOC4
32	<u>Mapping Technicians</u>	N/A	O*NET
33	<u>Marine Architects</u> 🌟	N/A	O*NET
34	<u>Mechanical Drafters</u>	N/A	O*NET
35	<u>Mechanical Engineering Technicians</u>	N/A	SOC4

Rank	Occupation	Total Annual Average Openings	*Related By
36	<u>Mechanical Engineering Technologists</u> 🌿	N/A	SOC4
37	<u>Multimedia Artists and Animators</u>	N/A	O*NET
38	<u>Museum Technicians and Conservators</u> 🌟	N/A	O*NET
39	<u>Nanotechnology Engineering Technicians</u> 🌿	N/A	SOC4
40	<u>Nanotechnology Engineering Technologists</u> 🌿	N/A	SOC4
41	<u>Non-Destructive Testing Specialists</u>	N/A	SOC4
42	<u>Photonics Technicians</u> 🌿	N/A	SOC4
43	<u>Surveying and Mapping Technicians</u>	N/A	SOC4
44	<u>Surveying Technicians</u>	N/A	SOC4
45	<u>Web Developers</u> 🌟	N/A	O*NET
*	<u>Aerospace Engineering and Operations Technicians</u>	Confidential	SOC4
*	<u>Cartographers and Photogrammetrists</u> 🌟	Confidential	O*NET
*	<u>Electro-Mechanical Technicians</u> 🌿	Confidential	SOC4
*	<u>Landscape Architects</u> 🌿	Confidential	O*NET
*	<u>Robotics Technicians</u> 🌿	Confidential	SOC4
*	<u>Set and Exhibit Designers</u>	Confidential	O*NET

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\* Rank is suppressed for confidential data.

Source: Occupational Employment Projections

## Industries by Employment

This section shows the industries that employed the highest number of Architectural and Civil Drafters (no data available for Architectural Drafters) in Louisiana in 2016.

Rank	Industry Title	Estimated Employment	Percent of Total Employment
1	<u>Professional, Scientific, and Technical Services</u>	883	77.87%
2	<u>Construction of Buildings</u>	69	6.08%
3	<u>Fabricated Metal Product Manufacturing</u>	60	5.29%
*	<u>Self-Employed and Unpaid Family Workers, Primary Job</u>	Confidential	Confidential
*	<u>Utilities</u>	Confidential	Confidential
*	<u>Heavy and Civil Engineering Construction</u>	Confidential	Confidential
*	<u>Specialty Trade Contractors</u>	Confidential	Confidential
*	<u>Wood Product Manufacturing</u>	Confidential	Confidential
*	<u>Nonmetallic Mineral Product Manufacturing</u>	Confidential	Confidential
*	<u>Primary Metal Manufacturing</u>	Confidential	Confidential

\* Rank is suppressed for confidential data.

Source: Louisiana Workforce Commission, Occupational Projections Program

# Work Activities

This section shows the most common work activities required by Architectural Drafters in order of importance. Click on a link in the Work Activity column to view more detailed information.

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<a href="#">Interacting With Computers</a>	Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.	98
<a href="#">Evaluating Information to Determine Compliance with Standards</a>	Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.	95
<a href="#">Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment</a>	Providing documentation, detailed instructions, drawings, or specifications to tell others about how devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used.	90
<a href="#">Getting Information</a>	Observing, receiving, and otherwise obtaining information from all relevant sources.	85
<a href="#">Thinking Creatively</a>	Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.	80
<a href="#">Making Decisions and Solving Problems</a>	Analyzing information and evaluating results to choose the best solution and solve problems.	77
<a href="#">Analyzing Data or Information</a>	Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.	75
<a href="#">Communicating with Persons Outside Organization</a>	Communicating with people outside the organization, representing the organization to customers, the public, government, and other external sources. This information can be exchanged in person, in writing, or by telephone or e-mail.	70
<a href="#">Updating and Using Relevant Knowledge</a>	Keeping up-to-date technically and applying new knowledge to your job.	68
<a href="#">Processing Information</a>	Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.	67
<a href="#">Documenting/Recording Information</a>	Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.	67
<a href="#">Communicating with Supervisors, Peers, or Subordinates</a>	Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.	65

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<u>Identifying Objects, Actions, and Events</u>	Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.	64
<u>Organizing, Planning, and Prioritizing Work</u>	Developing specific goals and plans to prioritize, organize, and accomplish your work.	61
<u>Scheduling Work and Activities</u>	Scheduling events, programs, and activities, as well as the work of others.	59
<u>Estimating the Quantifiable Characteristics of Products, Events, or Information</u>	Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.	57
<u>Monitor Processes, Materials, or Surroundings</u>	Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.	57
<u>Provide Consultation and Advice to Others</u>	Providing guidance and expert advice to management or other groups on technical, systems-, or process-related topics.	56
<u>Judging the Qualities of Things, Services, or People</u>	Assessing the value, importance, or quality of things or people.	54
<u>Inspecting Equipment, Structures, or Material</u>	Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.	54
<u>Resolving Conflicts and Negotiating with Others</u>	Handling complaints, settling disputes, and resolving grievances and conflicts, or otherwise negotiating with others.	53
<u>Interpreting the Meaning of Information for Others</u>	Translating or explaining what information means and how it can be used.	51
<u>Establishing and Maintaining Interpersonal Relationships</u>	Developing constructive and cooperative working relationships with others, and maintaining them over time.	51
<u>Selling or Influencing Others</u>	Convincing others to buy merchandise/goods or to otherwise change their minds or actions.	46
<u>Developing Objectives and Strategies</u>	Establishing long-range objectives and specifying the strategies and actions to achieve them.	43
<u>Coordinating the Work and Activities of Others</u>	Getting members of a group to work together to accomplish tasks.	40
<u>Performing for or Working Directly with the Public</u>	Performing for people or dealing directly with the public. This includes serving customers in restaurants and stores, and receiving clients or guests.	36

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<a href="#"><u>Performing Administrative Activities</u></a>	Performing day-to-day administrative tasks such as maintaining information files and processing paperwork.	34
<a href="#"><u>Developing and Building Teams</u></a>	Encouraging and building mutual trust, respect, and cooperation among team members.	34
<a href="#"><u>Guiding, Directing, and Motivating Subordinates</u></a>	Providing guidance and direction to subordinates, including setting performance standards and monitoring performance.	34
<a href="#"><u>Assisting and Caring for Others</u></a>	Providing personal assistance, medical attention, emotional support, or other personal care to others such as coworkers, customers, or patients.	30
<a href="#"><u>Training and Teaching Others</u></a>	Identifying the educational needs of others, developing formal educational or training programs or classes, and teaching or instructing others.	30
<a href="#"><u>Coaching and Developing Others</u></a>	Identifying the developmental needs of others and coaching, mentoring, or otherwise helping others to improve their knowledge or skills.	27
<a href="#"><u>Repairing and Maintaining Electronic Equipment</u></a>	Servicing, repairing, calibrating, regulating, fine-tuning, or testing machines, devices, and equipment that operate primarily on the basis of electrical or electronic (not mechanical) principles.	22

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Tasks

This section shows the most common tasks required by Architectural Drafters in order of importance. Click on a link in the Task column to view more detailed information.

Tasks	Task Description	Rank by Importance (Out of 100)
<a href="#"><u>Operate computer-aided drafting (CAD) equipment or conventional drafting station to produce designs, working drawings, charts, forms, and records.</u></a>	Core	85
<a href="#"><u>Coordinate structural, electrical, and mechanical designs and determine a method of presentation to graphically represent building plans.</u></a>	Core	85
<a href="#"><u>Analyze building codes, by-laws, space and site requirements, and other technical documents and reports to determine their effect on architectural designs.</u></a>	Core	82
<a href="#"><u>Lay out and plan interior room arrangements for commercial buildings, using computer-assisted drafting (CAD) equipment and software.</u></a>	Core	79

Tasks	Task Description	Rank by Importance (Out of 100)
<u>Draw rough and detailed scale plans for foundations, buildings, and structures, based on preliminary concepts, sketches, engineering calculations, specification sheets, and other data.</u>	Core	75
<u>Check dimensions of materials to be used and assign numbers to lists of materials.</u>	Core	72
<u>Supervise, coordinate, and inspect the work of draftspersons, technicians, and technologists on construction projects.</u>	Core	72
<u>Determine procedures and instructions to be followed, according to design specifications and quantity of required materials.</u>	Core	69
<u>Analyze technical implications of architect's design concept, calculating weights, volumes, and stress factors.</u>	Core	67
<u>Obtain and assemble data to complete architectural designs, visiting job sites to compile measurements as necessary.</u>	Core	64
<u>Create freehand drawings and lettering to accompany drawings.</u>	Core	62
<u>Prepare colored drawings of landscape and interior designs for presentation to client.</u>	Core	55
<u>Represent architect on construction site, ensuring builder compliance with design specifications and advising on design corrections, under architect's supervision.</u>	Supplemental	74
<u>Prepare cost estimates, contracts, bidding documents, and technical reports for specific projects under an architect's supervision.</u>	Supplemental	64
<u>Reproduce drawings on copy machines or trace copies of plans and drawings, using transparent paper or cloth, ink, pencil, and standard drafting instruments.</u>	Supplemental	41
<u>Build landscape, architectural, and display models.</u>	Supplemental	40
<u>Calculate heat loss and gain of buildings and structures to determine required equipment specifications, following standard procedures.</u>	Supplemental	32

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## National Working Conditions

**Architectural Drafters** Drafters spend much of their time working on computers using specialized software in an office.

Drafters held about 207,700 jobs in 2016. Employment in the detailed occupations that make up drafters was distributed as follows:

- Architectural and civil drafters 99,600
- Mechanical drafters 64,800
- Electrical and electronics drafters 27,400

Drafters, all other 15,900

The largest employers of drafters were as follows:

- Architectural, engineering, and related services 49%
- Manufacturing 25
- Construction 9
- Administrative and support and waste management and remediation services 4
- Wholesale trade 2

Although drafters spend much of their time working on computers in an office, some may visit jobsites to collaborate with architects and engineers.

Work Schedules

Most drafters worked full time in 2016.

Source: [U.S. Department of Labor Bureau of Labor Statistics](#)

Typical Work Conditions

This section shows the most common work conditions required by Architectural Drafters in order of importance.

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
Electronic Mail	How often do you use electronic mail in this job?	99
Face-to-Face Discussions	How often do you have to have face-to-face discussions with individuals or teams in this job?	99
Importance of Being Exact or Accurate	How important is being very exact or highly accurate in performing this job?	95
Indoors, Environmentally Controlled	How often does this job require working indoors in environmentally controlled conditions?	92
Spend Time Sitting	How much does this job require sitting?	87
Work With Work Group or Team	How important is it to work with others in a group or team in this job?	86
Time Pressure	How often does this job require the worker to meet strict deadlines?	84
Telephone	How often do you have telephone conversations in this job?	84
Coordinate or Lead Others	How important is it to coordinate or lead others in accomplishing work activities in this job?	73
Contact With Others	How much does this job require the worker to be in contact with others (face-to-face, by telephone, or otherwise) in order to perform it?	69
Freedom to Make Decisions	How much decision making freedom, without supervision, does the job offer?	69



Work Condition	Work Condition Description	Rank by Importance (Out of 100)
Deal With External Customers	How important is it to work with external customers or the public in this job?	66
Impact of Decisions on Co-workers or Company Results	What results do your decisions usually have on other people or the image or reputation or financial resources of your employer?	66
Responsibility for Outcomes and Results	How responsible is the worker for work outcomes and results of other workers?	65
Frequency of Decision Making	How frequently is the worker required to make decisions that affect other people, the financial resources, and/or the image and reputation of the organization?	64
Level of Competition	To what extent does this job require the worker to compete or to be aware of competitive pressures?	60
Structured versus Unstructured Work	To what extent is this job structured for the worker, rather than allowing the worker to determine tasks, priorities, and goals?	58
Spend Time Making Repetitive Motions	How much does this job require making repetitive motions?	56
Consequence of Error	How serious would the result usually be if the worker made a mistake that was not readily correctable?	56
Letters and Memos	How often does the job require written letters and memos?	55
Importance of Repeating Same Tasks	How important is repeating the same physical activities (e.g., key entry) or mental activities (e.g., checking entries in a ledger) over and over, without stopping, to performing this job?	54
Public Speaking	How often do you have to perform public speaking in this job?	49
Physical Proximity	To what extent does this job require the worker to perform job tasks in close physical proximity to other people?	47
Degree of Automation	How automated is the job?	43
Frequency of Conflict Situations	How often are there conflict situations the employee has to face in this job?	43
Spend Time Using Your Hands to Handle, Control, or Feel Objects, Tools, or Controls	How much does this job require using your hands to handle, control, or feel objects, tools or controls?	40
Outdoors, Exposed to Weather	How often does this job require working outdoors, exposed to all weather conditions?	40

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
In an Enclosed Vehicle or Equipment	How often does this job require working in a closed vehicle or equipment (e.g., car)?	37
Responsible for Others' Health and Safety	How much responsibility is there for the health and safety of others in this job?	32
Spend Time Standing	How much does this job require standing?	31
Deal With Unpleasant or Angry People	How frequently does the worker have to deal with unpleasant, angry, or discourteous individuals as part of the job requirements?	28
Sounds, Noise Levels Are Distracting or Uncomfortable	How often does this job require working exposed to sounds and noise levels that are distracting or uncomfortable?	28
Wear Common Protective or Safety Equipment such as Safety Shoes, Glasses, Gloves, Hearing Protection, Hard Hats, or Life Jackets	How much does this job require wearing common protective or safety equipment such as safety shoes, glasses, gloves, hard hats or life jackets?	26
Outdoors, Under Cover	How often does this job require working outdoors, under cover (e.g., structure with roof but no walls)?	26
Very Hot or Cold Temperatures	How often does this job require working in very hot (above 90 F degrees) or very cold (below 32 F degrees) temperatures?	21
Exposed to High Places	How often does this job require exposure to high places?	21
Indoors, Not Environmentally Controlled	How often does this job require working indoors in non-controlled environmental conditions (e.g., warehouse without heat)?	19

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Work Values and Needs

This section shows the information on the current work values for your selected occupation.

Work Value	Work Value Description	Rank By Extent (Out of 100)
Working Conditions	Occupations that satisfy this work value offer job security and good working conditions. Corresponding needs are Activity, Compensation, Independence, Security, Variety and Working Conditions.	58

Work Value	Work Value Description	Rank By Extent (Out of 100)
Achievement	Occupations that satisfy this work value are results oriented and allow employees to use their strongest abilities, giving them a feeling of accomplishment. Corresponding needs are Ability Utilization and Achievement.	56
Recognition	Occupations that satisfy this work value offer advancement, potential for leadership, and are often considered prestigious. Corresponding needs are Advancement, Authority, Recognition and Social Status.	50
Relationships	Occupations that satisfy this work value allow employees to provide service to others and work with co-workers in a friendly non-competitive environment. Corresponding needs are Co-workers, Moral Values and Social Service.	50
Support	Occupations that satisfy this work value offer supportive management that stands behind employees. Corresponding needs are Company Policies, Supervision: Human Relations and Supervision: Technical.	50
Independence	Occupations that satisfy this work value allow employees to work on their own and make decisions. Corresponding needs are Creativity, Responsibility and Autonomy.	39

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Typical Tools

This section shows common tools used by Architectural Drafters.

Detailed Tool	Tool Group
Compasses	Compasses
Three-dimensional motion controllers	Computer mouse or trackballs
Flexible curves	Curves
French curves	Curves
Desktop computers	Desktop computers
Computer aided design CAD multi-unit display graphics cards	Graphics or video accelerator cards
Three-dimensional stereoscopic projectors	Multimedia projectors
Plotters	Plotter printers
Handheld calculators	Pocket calculator
Print servers	Print servers
Protractors	Protractors
Architects' scales	Scales
Electronic scales	Scales
Backlit digitizers	Scanners
Large-format digitizers	Scanners

Detailed Tool	Tool Group
Sonic digitizers	Scanners
Three-dimensional laser digitizers	Scanners
Wide-format document scanners	Scanners
T-squares	T squares
Graphics tablets	Tablet computers
Pressure-sensitive graphic tablets	Tablet computers
Estimating keypads	Touch pads
Triangles	Triangles

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Typical Technology

This section shows common technology used by Architectural Drafters.

Detailed Technology	Technology Group
Alias Wavefront Design Studio	Computer aided design CAD software
Autodesk 3d Studio Viz	Computer aided design CAD software
Autodesk Architectural Desktop	Computer aided design CAD software
Autodesk AutoCAD	Computer aided design CAD software
Autodesk AutoCAD Civil 3D	Computer aided design CAD software
Autodesk Revit	Computer aided design CAD software
Autodesk Revit Architecture	Computer aided design CAD software
Bentley MicroStation	Computer aided design CAD software
Computer aided design and drafting CADD software	Computer aided design CAD software
Computer assisted design software	Computer aided design CAD software
Dassault Systemes CATIA	Computer aided design CAD software
Dassault Systemes SOLIDWORKS	Computer aided design CAD software
Graphisoft ArchiCAD	Computer aided design CAD software
Logitech 3D Pro	Computer aided design CAD software
Trimble SketchUp Pro	Computer aided design CAD software
UGS Solid Edge	Computer aided design CAD software
VectorWorks ARCHITECT	Computer aided design CAD software
ARCOM Masterspec	Data base user interface and query software
Database software	Data base user interface and query software
Adobe Systems Adobe InDesign	Desktop publishing software
Adobe Systems Adobe Creative Suite	Development environment software
C	Development environment software
Microsoft .NET Framework	Development environment software
Adobe Systems Adobe Acrobat	Document management software
Document management system software	Document management software

Detailed Technology	Technology Group
Microsoft Outlook	Electronic mail software
ERP software	Enterprise resource planning ERP software
SAP software	Enterprise resource planning ERP software
Adobe Systems Adobe After Effects	Graphics or photo imaging software
Adobe Systems Adobe Illustrator	Graphics or photo imaging software
Adobe Systems Adobe LiveMotion	Graphics or photo imaging software
Adobe Systems Adobe Photoshop	Graphics or photo imaging software
Animation software	Graphics or photo imaging software
AutoDesSys form Z	Graphics or photo imaging software
Corel Paint Shop Pro	Graphics or photo imaging software
Graphic presentation software	Graphics or photo imaging software
Landscape modeling software	Graphics or photo imaging software
McNeel Rhino software	Graphics or photo imaging software
Microsoft Paint	Graphics or photo imaging software
Microsoft Visio	Graphics or photo imaging software
Motion graphics software	Graphics or photo imaging software
Non uniform rational b-splines NURBS software	Graphics or photo imaging software
Softimage Extreme	Graphics or photo imaging software
Sun Microsystems Cobalt	Graphics or photo imaging software
Geomechanical design analysis GDA software	Map creation software
Bill of materials software	Materials requirements planning logistics and supply chain software
Microsoft Office	Office suite software
Microsoft Windows	Operating system software
Digitizing and photogrammetric software	Optical character reader OCR or scanning software
Scanning software	Optical character reader OCR or scanning software
100 Plus Hatch Pattern Library	Pattern design software
Microsoft PowerPoint	Presentation software
Microsoft Project	Project management software
Microsoft Excel	Spreadsheet software
Autodesk 3ds Max	Video creation and editing software
Microsoft Word	Word processing software
Word processing software	Word processing software

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Licensing Information

There is no data available for Architectural Drafters in Louisiana.

## Typical Knowledge Categories

This section shows the most common knowledge categories required by Architectural Drafters in order of importance. Click on a link in the Knowledge Category column to view more detailed information.

Knowledge Category	Knowledge Category Description	Rank by Importance (Out of 100)
<a href="#">Building and Construction</a>	Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.	91
<a href="#">Design</a>	Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.	78
<a href="#">Engineering and Technology</a>	Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.	76
<a href="#">Computers and Electronics</a>	Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.	75
<a href="#">Public Safety and Security</a>	Knowledge of relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.	71
<a href="#">Law and Government</a>	Knowledge of laws, legal codes, court procedures, precedents, government regulations, executive orders, agency rules, and the democratic political process.	68
<a href="#">English Language</a>	Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.	66
<a href="#">Sales and Marketing</a>	Knowledge of principles and methods for showing, promoting, and selling products or services. This includes marketing strategy and tactics, product demonstration, sales techniques, and sales control systems.	64
<a href="#">Administration and Management</a>	Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.	63
<a href="#">Mathematics</a>	Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.	57
<a href="#">Customer and Personal Service</a>	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.	56

Knowledge Category	Knowledge Category Description	Rank by Importance (Out of 100)
<u>Production and Processing</u>	Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.	46
<u>Communications and Media</u>	Knowledge of media production, communication, and dissemination techniques and methods. This includes alternative ways to inform and entertain via written, oral, and visual media.	44
<u>Mechanical</u>	Knowledge of machines and tools, including their designs, uses, repair, and maintenance.	42
<u>Physics</u>	Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub- atomic structures and processes.	39
<u>Clerical</u>	Knowledge of administrative and clerical procedures and systems such as word processing, managing files and records, stenography and transcription, designing forms, and other office procedures and terminology.	35
<u>Economics and Accounting</u>	Knowledge of economic and accounting principles and practices, the financial markets, banking and the analysis and reporting of financial data.	33
<u>Telecommunications</u>	Knowledge of transmission, broadcasting, switching, control, and operation of telecommunications systems.	32
<u>Geography</u>	Knowledge of principles and methods for describing the features of land, sea, and air masses, including their physical characteristics, locations, interrelationships, and distribution of plant, animal, and human life.	30
<u>Fine Arts</u>	Knowledge of the theory and techniques required to compose, produce, and perform works of music, dance, visual arts, drama, and sculpture.	27
<u>Personnel and Human Resources</u>	Knowledge of principles and procedures for personnel recruitment, selection, training, compensation and benefits, labor relations and negotiation, and personnel information systems.	23
<u>Foreign Language</u>	Knowledge of the structure and content of a foreign (non-English) language including the meaning and spelling of words, rules of composition and grammar, and pronunciation.	20

Knowledge Category	Knowledge Category Description	Rank by Importance (Out of 100)
<a href="#">Philosophy and Theology</a>	Knowledge of different philosophical systems and religions. This includes their basic principles, values, ethics, ways of thinking, customs, practices, and their impact on human culture.	20

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Typical Work Abilities Required

This section shows the results of a national survey listing the most common work abilities required by Architectural Drafters in order of importance. Click on a link in the Work Ability column to view more detailed information.

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
<a href="#">Near Vision</a>	The ability to see details at close range (within a few feet of the observer).	75
<a href="#">Oral Comprehension</a>	The ability to listen to and understand information and ideas presented through spoken words and sentences.	72
<a href="#">Problem Sensitivity</a>	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.	72
<a href="#">Visualization</a>	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	72
<a href="#">Deductive Reasoning</a>	The ability to apply general rules to specific problems to produce answers that make sense.	69
<a href="#">Oral Expression</a>	The ability to communicate information and ideas in speaking so others will understand.	66
<a href="#">Written Comprehension</a>	The ability to read and understand information and ideas presented in writing.	66
<a href="#">Inductive Reasoning</a>	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	63
<a href="#">Information Ordering</a>	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).	63
<a href="#">Speech Clarity</a>	The ability to speak clearly so others can understand you.	60
<a href="#">Category Flexibility</a>	The ability to generate or use different sets of rules for combining or grouping things in different ways.	56
<a href="#">Flexibility of Closure</a>	The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.	56
<a href="#">Speech Recognition</a>	The ability to identify and understand the speech of another person.	56



Work Ability	Work Ability Description	Rank by Importance (Out of 100)
<u>Perceptual Speed</u>	The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.	53
<u>Written Expression</u>	The ability to communicate information and ideas in writing so others will understand.	53
<u>Fluency of Ideas</u>	The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness, or creativity).	50
<u>Mathematical Reasoning</u>	The ability to choose the right mathematical methods or formulas to solve a problem.	50
<u>Number Facility</u>	The ability to add, subtract, multiply, or divide quickly and correctly.	50
<u>Originality</u>	The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem.	50
<u>Far Vision</u>	The ability to see details at a distance.	47
<u>Selective Attention</u>	The ability to concentrate on a task over a period of time without being distracted.	47
<u>Speed of Closure</u>	The ability to quickly make sense of, combine, and organize information into meaningful patterns.	47
<u>Visual Color Discrimination</u>	The ability to match or detect differences between colors, including shades of color and brightness.	47
<u>Arm-Hand Steadiness</u>	The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.	44
<u>Finger Dexterity</u>	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.	44
<u>Control Precision</u>	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	31
<u>Depth Perception</u>	The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.	31
<u>Manual Dexterity</u>	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.	31
<u>Memorization</u>	The ability to remember information such as words, numbers, pictures, and procedures.	31
<u>Time Sharing</u>	The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).	31
<u>Auditory Attention</u>	The ability to focus on a single source of sound in the presence of other distracting sounds.	25

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
<u>Spatial Orientation</u>	The ability to know your location in relation to the environment or to know where other objects are in relation to you.	25
<u>Hearing Sensitivity</u>	The ability to detect or tell the differences between sounds that vary in pitch and loudness.	19
<u>Multilimb Coordination</u>	The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.	19
<u>Trunk Strength</u>	The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without 'giving out' or fatiguing.	16
<u>Wrist-Finger Speed</u>	The ability to make fast, simple, repeated movements of the fingers, hands, and wrists.	16
<u>Static Strength</u>	The ability to exert maximum muscle force to lift, push, pull, or carry objects.	10
<u>Dynamic Strength</u>	The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.	3
<u>Extent Flexibility</u>	The ability to bend, stretch, twist, or reach with your body, arms, and/or legs.	3
<u>Peripheral Vision</u>	The ability to see objects or movement of objects to one's side when the eyes are looking ahead.	3

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Typical Work Interests

This section shows the results of a national survey listing the most common work interests for Architectural Drafters in order of importance.

Work Interest	Work Interest Description	Rank by Importance (Out of 100)
Artistic	Artistic occupations frequently involve working with forms, designs and patterns. They often require self-expression and the work can be done without following a clear set of rules.	78
Realistic	Realistic occupations frequently involve work activities that include practical, hands-on problems and solutions. They often deal with plants, animals, and real-world materials like wood, tools, and machinery. Many of the occupations require working outside, and do not involve a lot of paperwork or working closely with others.	72
Investigative	Investigative occupations frequently involve working with ideas, and require an extensive amount of thinking. These occupations can involve searching for facts and figuring out problems mentally.	61

Work Interest	Work Interest Description	Rank by Importance (Out of 100)
Conventional	Conventional occupations frequently involve following set procedures and routines. These occupations can include working with data and details more than with ideas. Usually there is a clear line of authority to follow.	56

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Typical Work Styles

This section shows the most common work styles required by Architectural Drafters in order of importance. Click on a link in the Work Style column to view more detailed information.


Work Style	Work Style Description	Rank by Importance (Out of 100)
<a href="#">Attention to Detail</a>	Job requires being careful about detail and thorough in completing work tasks.	100
<a href="#">Dependability</a>	Job requires being reliable, responsible, and dependable, and fulfilling obligations.	96
<a href="#">Analytical Thinking</a>	Job requires analyzing information and using logic to address work-related issues and problems.	92
<a href="#">Cooperation</a>	Job requires being pleasant with others on the job and displaying a good-natured, cooperative attitude.	89
<a href="#">Adaptability/Flexibility</a>	Job requires being open to change (positive or negative) and to considerable variety in the workplace.	84
<a href="#">Innovation</a>	Job requires creativity and alternative thinking to develop new ideas for and answers to work-related problems.	80
<a href="#">Independence</a>	Job requires developing one's own ways of doing things, guiding oneself with little or no supervision, and depending on oneself to get things done.	79
<a href="#">Self Control</a>	Job requires maintaining composure, keeping emotions in check, controlling anger, and avoiding aggressive behavior, even in very difficult situations.	78
<a href="#">Stress Tolerance</a>	Job requires accepting criticism and dealing calmly and effectively with high stress situations.	74
<a href="#">Leadership</a>	Job requires a willingness to lead, take charge, and offer opinions and direction.	73
<a href="#">Achievement/Effort</a>	Job requires establishing and maintaining personally challenging achievement goals and exerting effort toward mastering tasks.	68
<a href="#">Persistence</a>	Job requires persistence in the face of obstacles.	68

Work Style	Work Style Description	Rank by Importance (Out of 100)
<a href="#">Initiative</a>	Job requires a willingness to take on responsibilities and challenges.	66
<a href="#">Social Orientation</a>	Job requires preferring to work with others rather than alone, and being personally connected with others on the job.	64
<a href="#">Integrity</a>	Job requires being honest and ethical.	61
<a href="#">Concern for Others</a>	Job requires being sensitive to others' needs and feelings and being understanding and helpful on the job.	50

Source: This information is based on O\*NET™ data. O\*NET is a trademark registered to the U.S. Department of Labor, Employment and Training Administration.

## Related Occupations

This section shows a list of occupations related to Architectural Drafters. Click an occupation title to see more information about that occupation.

Rank	Related Occupations	Duties	*Related By
1	<a href="#">Architectural and Civil Drafters</a>	Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects, such as highways, bridges, and public works. Use knowledge of building materials, engineering practices, and mathematics to complete drawings.	SOC4
2	<a href="#">Surveying and Mapping Technicians</a>	Perform surveying and mapping duties, usually under the direction of an engineer, surveyor, cartographer, or photogrammetrist to obtain data used for construction, mapmaking, boundary location, mining, or other purposes. May calculate mapmaking information and create maps from source data, such as surveying notes, aerial photography, satellite data, or other maps to show topographical features, political boundaries, and other features. May verify accuracy and completeness of maps.	SOC4
3	<a href="#">Surveying Technicians</a>	Adjust and operate surveying instruments, such as the theodolite and electronic distance-measuring equipment, and compile notes, make sketches and enter data into computers.	SOC4
4	<a href="#">Aerospace Engineering and Operations Technicians</a>	Operate, install, calibrate, and maintain integrated computer/communications systems, consoles, simulators, and other data acquisition, test, and measurement instruments and equipment, which are used to launch, track, position, and evaluate air and space vehicles. May record and interpret test data.	SOC4
5	<a href="#">Automotive Engineering Technicians</a> 	Assist engineers in determining the practicality of proposed product design changes and plan and carry out tests on experimental test devices or equipment for performance, durability, or efficiency.	SOC4
6	<a href="#">Drafters, All Other</a>	All drafters not listed separately.	SOC4

Rank	Related Occupations	Duties	*Related By
7	<u>Electrical and Electronic Engineering Technicians</u>	Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions.	SOC4
8	<u>Electrical and Electronics Drafters</u>	Prepare wiring diagrams, circuit board assembly diagrams, and layout drawings used for the manufacture, installation, or repair of electrical equipment.	SOC4
9	<u>Electrical Engineering Technicians</u> 🌱	Test or modify developmental or operational electrical machinery or electrical control equipment and circuitry in industrial or commercial plants or laboratories. Usually work under direction of engineers or technologists.	SOC4
10	<u>Electrical Engineering Technologists</u> 🌱	Assist electrical engineers in such activities as process control, electrical power distribution, or instrumentation design. May prepare layouts of electrical transmission or distribution systems, supervise the flow of work, estimate project costs, or participate in research studies.	SOC4
11	<u>Electromechanical Engineering Technologists</u> 🌱	Assist electromechanical engineers in such activities as computer-based process control, instrumentation, or machine design. May prepare layouts of machinery or equipment, plan the flow of work, conduct statistical studies, or analyze production costs.	SOC4
12	<u>Electro-Mechanical Technicians</u> 🌱	Operate, test, maintain, or calibrate unmanned, automated, servo-mechanical, or electromechanical equipment. May operate unmanned submarines, aircraft, or other equipment at worksites, such as oil rigs, deep ocean exploration, or hazardous waste removal. May assist engineers in testing and designing robotics equipment.	SOC4
13	<u>Electronics Engineering Technicians</u> 🌱	Lay out, build, test, troubleshoot, repair, and modify developmental and production electronic components, parts, equipment, and systems, such as computer equipment, missile control instrumentation, electron tubes, test equipment, and machine tool numerical controls, applying principles and theories of electronics, electrical circuitry, engineering mathematics, electronic and electrical testing, and physics. Usually work under direction of engineering staff.	SOC4
14	<u>Electronics Engineering Technologists</u> 🌱	Assist electronics engineers in such activities as electronics systems and instrumentation design or digital signal processing.	SOC4
15	<u>Engineering Technicians, Except Drafters, All Other</u>	All engineering technicians, except drafters, not listed separately.	SOC4
16	<u>Environmental Engineering Technicians</u> 🌻 🌱	Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental problems, including waste treatment and site remediation, under the direction of engineering staff or scientist. May assist in the development of environmental remediation devices.	SOC4

Rank	Related Occupations	Duties	*Related By
17	<u>Fuel Cell Technicians</u> 🟢	Install, operate, or maintain integrated fuel cell systems in transportation, stationary, or portable applications.	SOC4
18	<u>Industrial Engineering Technicians</u> 🟢	Apply engineering theory and principles to problems of industrial layout or manufacturing production, usually under the direction of engineering staff. May perform time and motion studies on worker operations in a variety of industries for purposes such as establishing standard production rates or improving efficiency.	SOC4
19	<u>Industrial Engineering Technologists</u> 🟢	Assist industrial engineers in such activities as quality control, inventory control, or material flow methods. May conduct statistical studies or analyze production costs.	SOC4
20	<u>Manufacturing Engineering Technologists</u> 🟢	Develop tools, implement designs, or integrate machinery, equipment, or computer technologies to ensure effective manufacturing processes.	SOC4
21	<u>Manufacturing Production Technicians</u> 🟢	Set up, test, and adjust manufacturing machinery or equipment, using any combination of electrical, electronic, mechanical, hydraulic, pneumatic, or computer technologies.	SOC4
22	<u>Mechanical Engineering Technicians</u>	Apply theory and principles of mechanical engineering to modify, develop, test, or calibrate machinery and equipment under direction of engineering staff or physical scientists.	SOC4
23	<u>Mechanical Engineering Technologists</u> 🟢	Assist mechanical engineers in such activities as generation, transmission, or use of mechanical or fluid energy. Prepare layouts of machinery or equipment or plan the flow of work. May conduct statistical studies or analyze production costs.	SOC4
24	<u>Nanotechnology Engineering Technicians</u> 🟢	Operate commercial-scale production equipment to produce, test, or modify materials, devices, or systems of molecular or macromolecular composition. Work under the supervision of engineering staff.	SOC4
25	<u>Nanotechnology Engineering Technologists</u> 🟢	Implement production processes for nanoscale designs to produce or modify materials, devices, or systems of unique molecular or macromolecular composition. Operate advanced microscopy equipment to manipulate nanoscale objects. Work under the supervision of nanoengineering staff.	SOC4
26	<u>Non-Destructive Testing Specialists</u>	Test the safety of structures, vehicles, or vessels using x-ray, ultrasound, fiber optic or related equipment.	SOC4
27	<u>Photonics Technicians</u> 🟢	Build, install, test, or maintain optical or fiber optic equipment, such as lasers, lenses, or mirrors, using spectrometers, interferometers, or related equipment.	SOC4
28	<u>Robotics Technicians</u> 🟢	Build, install, test, or maintain robotic equipment or related automated production systems.	SOC4
29	<u>Architects, Except Landscape and Naval</u> 🟡🟢	Plan and design structures, such as private residences, office buildings, theaters, factories, and other structural property.	O*NET
30	<u>Civil Drafters</u>	Prepare drawings and topographical and relief maps used in civil engineering projects, such as highways, bridges, pipelines, flood control projects, and water and sewerage control systems.	O*NET

Rank	Related Occupations	Duties	*Related By
31	<u>Civil Engineering Technicians</u>	Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.	O*NET
32	<u>Interior Designers</u>	Plan, design, and furnish interiors of residential, commercial, or industrial buildings. Formulate design which is practical, aesthetic, and conducive to intended purposes, such as raising productivity, selling merchandise, or improving life style. May specialize in a particular field, style, or phase of interior design.	O*NET
33	<u>Landscape Architects</u> 🌿	Plan and design land areas for projects such as parks and other recreational facilities, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential sites.	O*NET
34	<u>Mapping Technicians</u>	Calculate mapmaking information from field notes, and draw and verify accuracy of topographical maps.	O*NET
35	<u>Cartographers and Photogrammetrists</u> 🌟	Collect, analyze, and interpret geographic information provided by geodetic surveys, aerial photographs, and satellite data. Research, study, and prepare maps and other spatial data in digital or graphic form for legal, social, political, educational, and design purposes. May work with Geographic Information Systems (GIS). May design and evaluate algorithms, data structures, and user interfaces for GIS and mapping systems.	O*NET
36	<u>Commercial and Industrial Designers</u> 🌿	Develop and design manufactured products, such as cars, home appliances, and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design.	O*NET
37	<u>Computer Network Architects</u>	Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. Perform network modeling, analysis, and planning. May also design network and computer security measures. May research and recommend network and data communications hardware and software.	O*NET
38	<u>Database Administrators</u> 🌟	Administer, test, and implement computer databases, applying knowledge of database management systems. Coordinate changes to computer databases. May plan, coordinate, and implement security measures to safeguard computer databases.	O*NET
39	<u>Desktop Publishers</u>	Format typescript and graphic elements using computer software to produce publication-ready material.	O*NET
40	<u>Electrical Drafters</u>	Develop specifications and instructions for installation of voltage transformers, overhead or underground cables, and related electrical equipment used to conduct electrical energy from transmission lines or high-voltage distribution lines to consumers.	O*NET
41	<u>Electronic Drafters</u>	Draw wiring diagrams, circuit board assembly diagrams, schematics, and layout drawings used for manufacture, installation, and repair of electronic equipment.	O*NET



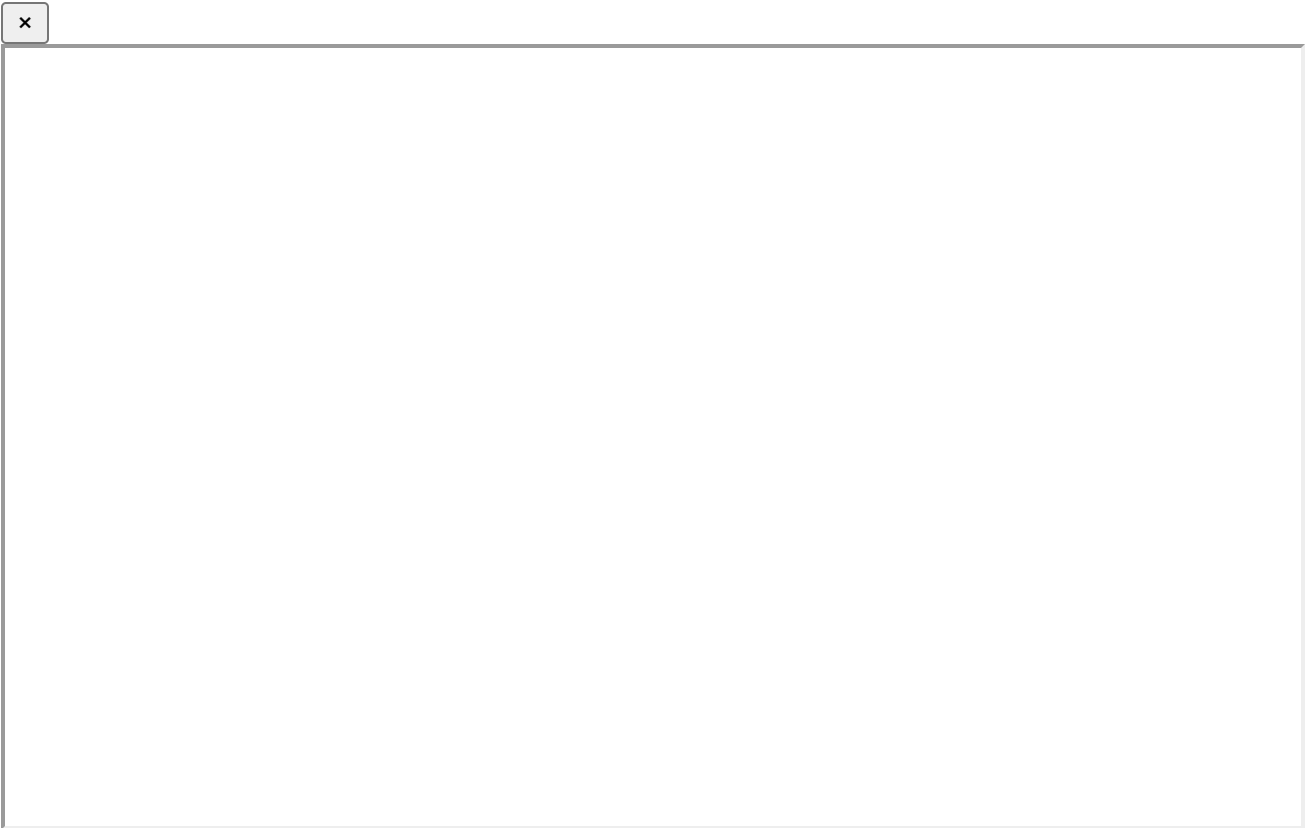




Occupation Title	Number of Individuals that Moved	Percentage of Individuals that Moved
<u>Drafters, All Other</u>	13	18.84%
<u>Construction Managers</u> 🌟 🌿	7	10.14%
<u>Civil Drafters</u>	7	10.14%
<u>Mechanical Drafters</u>	7	10.14%
<u>Designers, All Other</u>	7	10.14%
<u>Driver/Sales Workers</u>	7	10.14%
<u>Architectural and Engineering Managers</u> 🌿	6	8.70%
<u>Architects, Except Landscape and Naval</u> 🌟 🌿	6	8.70%
<u>Maintenance and Repair Workers, General</u> 🌟 🌿	5	7.25%
<u>Electronic Drafters</u>	4	5.80%

🌟 BRIGHT OUTLOOK NATIONALLY | 🌿 GREEN OCCUPATIONS

Source: Individuals with active résumés in the workforce system.



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