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Computer Systems Analysts

Louisiana

Summary of Job Duties

Computer Systems Analysts [Video](#) - Analyze science, engineering, business, and other data processing problems to implement and improve computer systems. Analyze user requirements, procedures, and problems to automate or improve existing systems and review computer system capabilities, workflow, and scheduling limitations. May analyze or recommend commercially available 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.

Detailed Job Description

Computer Systems Analysts Computer systems analysts study an organization's current computer systems and find a solution that is more efficient and effective.

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

Job Zone

The section below shows the job zone information for Computer Systems Analysts. Job Zone Four: Considerable Preparation Needed.


Education	Experience	Training

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 and green jobs advertised online in Louisiana for Computer Systems Analysts and for the related occupational group of Computer and Mathematical Occupations on December 8, 2020 (Jobs De-duplication Level 2).

Occupation	Job Openings	Green Job Count
Computer Systems Analysts  	75	1
Computer and Mathematical Occupations	903	17

 BRIGHT OUTLOOK NATIONALLY |  GREEN OCCUPATIONS

Source: Online advertised jobs data

Monthly Job Count

This section shows the number of job openings and green jobs advertised online for Computer Systems Analysts in Louisiana November, 2020 (Jobs De-duplication Level 2).

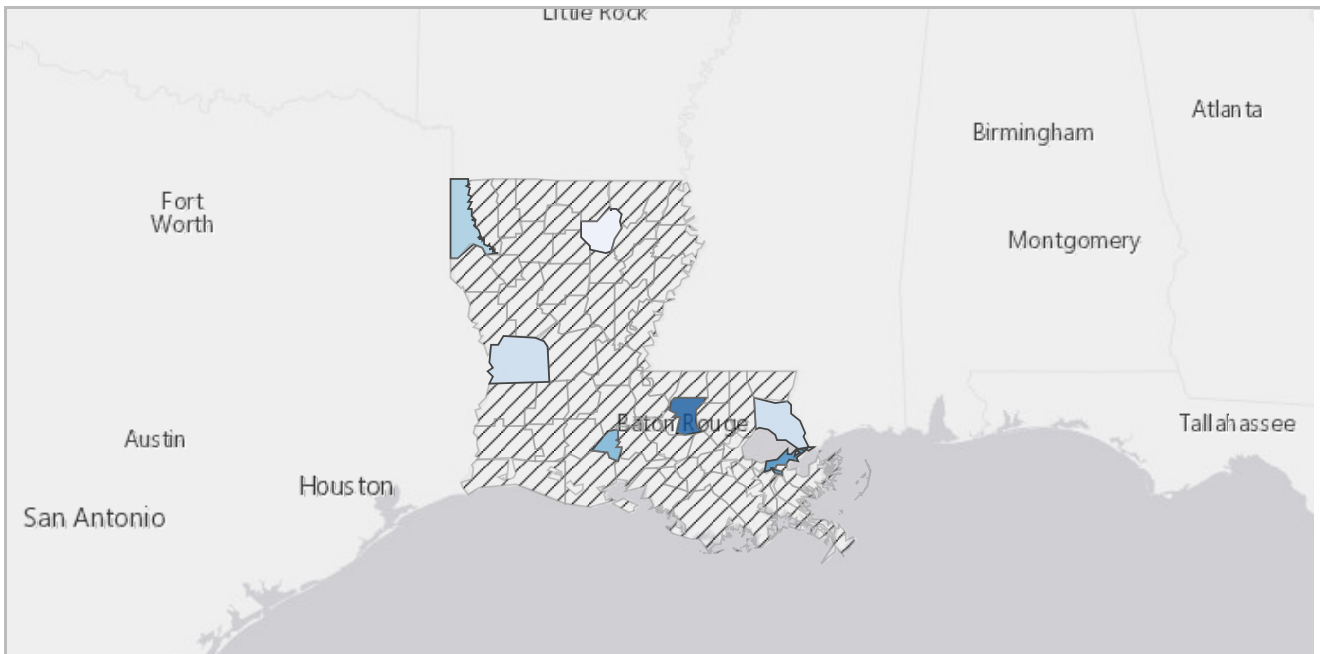
Occupation	Job Openings	Green Job Count
Computer Systems Analysts 	110	2

 BRIGHT OUTLOOK NATIONALLY

Source: Online advertised jobs data

Jobs Area Distribution

This section shows the distribution of number of job openings and green jobs advertised online for Computer Systems Analysts in Louisiana by parishes on December 8, 2020 (Jobs De-duplication Level 2).



Job Openings




















Job Source: Online advertised jobs data

Jobs in Related Occupations

This section shows the number of job openings and green jobs advertised online in Louisiana for occupations related to Computer Systems Analysts on December 8, 2020 (Jobs De-duplication Level 2).

Rank	Occupation	Median Wage	Job Openings	Green Job Count	*Related By
1	Environmental Engineers	\$104,843	<u>7</u>	<u>6</u>	O*NET
2	Industrial Engineers	\$93,185	<u>8</u>	<u>4</u>	O*NET
3	Computer Systems Engineers/Architects	\$62,800	<u>51</u>	<u>3</u>	O*NET
4	Electrical Engineers	\$91,002	<u>32</u>	<u>3</u>	O*NET
5	Database Administrators	\$80,017	<u>30</u>	<u>2</u>	O*NET
6	Network and Computer Systems Administrators	\$64,569	<u>62</u>	<u>2</u>	O*NET
7	Industrial Safety and Health Engineers	\$85,523	<u>4</u>	<u>2</u>	O*NET
8	Occupational Health and Safety Specialists	\$71,755	<u>7</u>	<u>2</u>	O*NET
9	Computer and Information Systems Managers	\$104,877	<u>12</u>	<u>1</u>	O*NET

Rank	Occupation	Median Wage	Job Openings	Green Job Count	*Related By
10	Logistics Engineers 	\$72,442	<u>2</u>	1	O*NET
11	Computer Systems Analysts 	N/A	<u>75</u>	1	N/A
12	Computer Programmers	\$66,543	<u>87</u>	1	O*NET
13	Software Quality Assurance Engineers and Testers 	\$62,800	<u>11</u>	1	O*NET
14	Validation Engineers 	\$81,992	<u>1</u>	1	O*NET
15	Industrial Engineering Technicians 	\$82,034	<u>9</u>	1	O*NET
16	Geoscientists, Except Hydrologists and Geographers 	\$98,718	<u>1</u>	1	O*NET
17	Computer and Information Research Scientists 	\$90,153	<u>2</u>	0	O*NET
18	Informatics Nurse Specialists 	\$68,543	<u>3</u>	0	O*NET
19	Information Security Analysts 	\$72,516	<u>7</u>	0	O*NET
20	Software Developers, Applications 	\$79,753	<u>50</u>	0	O*NET
21	Software Developers, Systems Software  	\$73,552	<u>20</u>	0	O*NET
22	Web Developers 	\$56,619	<u>4</u>	0	O*NET
23	Computer Network Architects	\$73,217	<u>6</u>	0	O*NET
24	Statisticians 	\$79,036	<u>2</u>	0	O*NET
25	Landscape Architects 	\$52,090	<u>3</u>	0	O*NET
26	Petroleum Engineers	\$128,991	<u>1</u>	0	O*NET
27	Biologists	N/A	<u>2</u>	0	O*NET
28	Epidemiologists	\$51,486	<u>4</u>	0	O*NET
29	Transportation Planners 	\$71,423	<u>1</u>	0	O*NET
30	Pathologists 	\$164,463	<u>9</u>	0	O*NET

 BRIGHT OUTLOOK NATIONALLY |  GREEN OCCUPATIONS

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 2018 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](#).

Candidates Available

This section shows potential candidates in the workforce system in Louisiana for Computer Systems Analysts and for the related occupational group of Computer and Mathematical Occupations on December 8, 2020.

Occupation	Candidates
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Occupation	Candidates
Computer Systems Analysts 🌟🌿	139
Computer and Mathematical Occupations	2,259

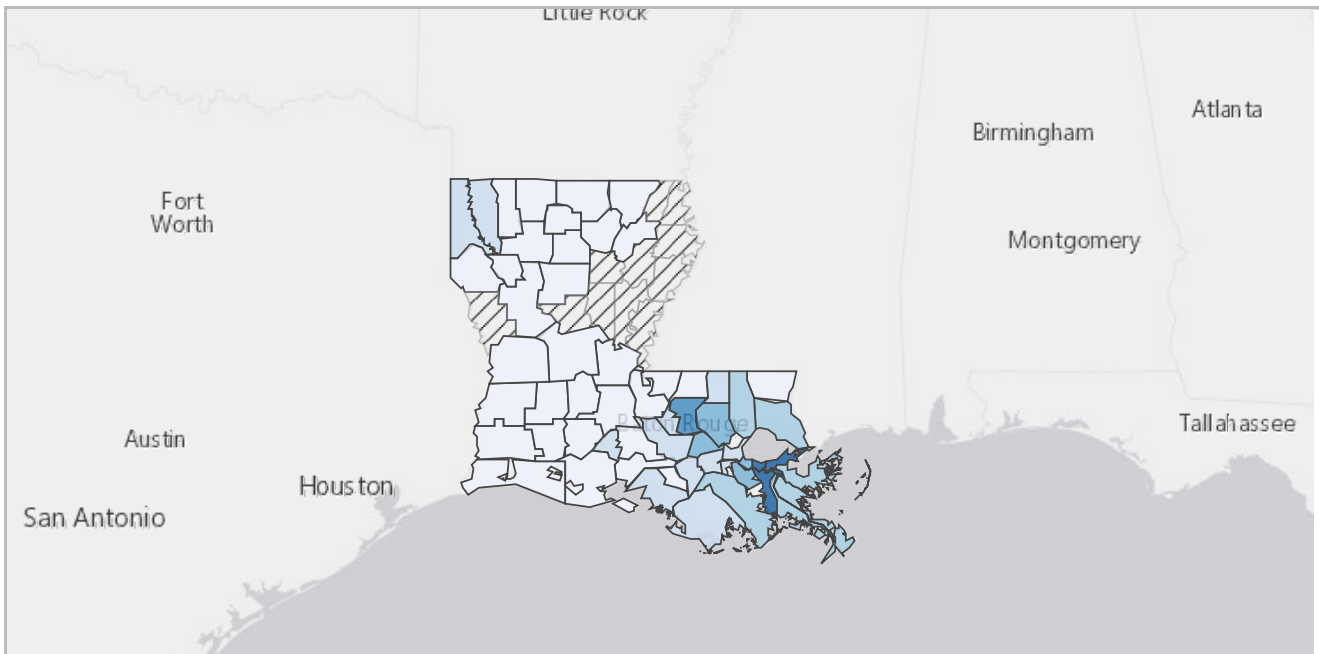
🌟 BRIGHT OUTLOOK NATIONALLY | 🌿 GREEN OCCUPATIONS

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 Computer Systems Analysts in Louisiana by parishes on December 8, 2020.

Rank	Area Name	Median Wage	Candidates
1	<u>Orleans Parish</u>	\$68,543 state level wages	71
2	<u>Jefferson Parish</u>	\$68,543 state level wages	69
3	<u>East Baton Rouge Parish</u>	\$68,543 state level wages	61
4	<u>Livingston Parish</u>	\$68,543 state level wages	55
5	<u>Ascension Parish</u>	\$68,543 state level wages	52
6	<u>St. Charles Parish</u>	\$68,543 state level wages	51
7	<u>Plaquemines Parish</u>	\$68,543 state level wages	50
8	<u>St. Tammany Parish</u>	\$68,543 state level wages	49
9	<u>St. Bernard Parish</u>	\$68,543 state level wages	47
10	<u>Tangipahoa Parish</u>	\$68,543 state level wages	47



Candidates



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 2018 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 Computer Systems Analysts on December 8, 2020.

Rank	Occupation	Median Wage	Candidates	*Related By
1	Occupational Health and Safety Specialists 🟢	\$71,755	414	O*NET
2	Computer and Information Systems Managers 🟡	\$104,877	288	O*NET
3	Industrial Safety and Health Engineers 🟢	\$85,523	171	O*NET
4	Network and Computer Systems Administrators	\$64,569	160	O*NET
5	Computer Systems Analysts 🟡	N/A	139	N/A
6	Software Developers, Applications 🟡	\$79,753	120	O*NET
7	Electrical Engineers 🟢	\$91,002	111	O*NET
8	Industrial Engineering Technicians 🟢	\$82,034	109	O*NET
9	Computer Programmers	\$66,543	91	O*NET

Rank	Occupation	Median Wage	Candidates	*Related By
10	<u>Database Administrators</u> ✨	\$80,017	91	O*NET
11	<u>Petroleum Engineers</u>	\$128,991	79	O*NET
12	<u>Industrial Engineers</u> ✨ 🌱	\$93,185	55	O*NET
13	<u>Computer Hardware Engineers</u>	\$77,939	46	O*NET
14	<u>Web Developers</u> ✨	\$56,619	42	O*NET
15	<u>Computer Network Architects</u>	\$73,217	42	O*NET
16	<u>Environmental Engineers</u> 🌱	\$104,843	38	O*NET
17	<u>Information Security Analysts</u> ✨	\$72,516	37	O*NET
18	<u>Software Quality Assurance Engineers and Testers</u> ✨	\$62,800	37	O*NET
19	<u>Computer and Information Research Scientists</u> ✨	\$90,153	36	O*NET
20	<u>Software Developers, Systems Software</u> ✨ 🌱	\$73,552	32	O*NET
21	<u>Biologists</u>	N/A	31	O*NET
22	<u>Geoscientists, Except Hydrologists and Geographers</u> 🌱	\$98,718	27	O*NET
23	<u>Landscape Architects</u> 🌱	\$52,090	24	O*NET
24	<u>Computer Systems Engineers/Architects</u> ✨	\$62,800	16	O*NET
25	<u>Geographic Information Systems Technicians</u> ✨ 🌱	\$62,800	16	O*NET
26	<u>Statisticians</u> ✨	\$79,036	8	O*NET
27	<u>Transportation Planners</u> 🌱	\$71,423	7	O*NET
28	<u>Epidemiologists</u>	\$51,486	5	O*NET
29	<u>Informatics Nurse Specialists</u> ✨	\$68,543	4	O*NET
30	<u>Pathologists</u> ✨	\$164,463	4	O*NET
31	<u>Web Administrators</u> ✨	\$62,800	3	O*NET
32	<u>Logistics Engineers</u> 🌱	\$72,442	2	O*NET
33	<u>Validation Engineers</u> 🌱	\$81,992	1	O*NET

🌟 BRIGHT OUTLOOK NATIONALLY | 🌱 GREEN OCCUPATIONS

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 2018 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.

Jobs and Candidates Available

This section shows the number of job openings and green jobs advertised online, as well as potential candidates in the workforce system in Louisiana for Computer Systems Analysts and for the related occupational group of Computer and Mathematical Occupations on December 8, 2020 (Jobs De-duplication Level 2).

Occupation	Job Openings	Green Job Count	Candidates	Candidates per Job
Computer Systems Analysts 	<u>75</u>	<u>1</u>	139	1.85
Computer and Mathematical Occupations	<u>903</u>	<u>17</u>	2,259	2.50

 BRIGHT OUTLOOK NATIONALLY |  GREEN OCCUPATIONS

Job Source: Online advertised jobs data

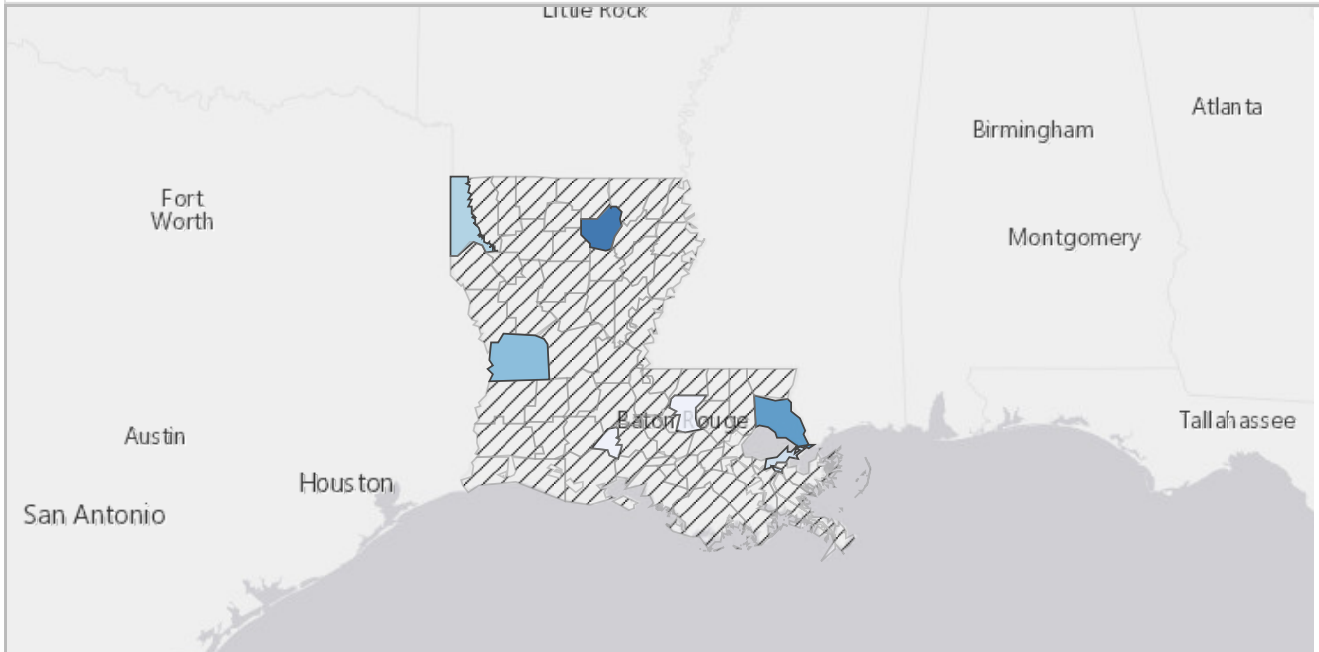
Candidate Source: Individuals with active résumés in the workforce system.

Jobs and Candidates Area Distribution

This section shows the distribution of number of job openings and green jobs advertised online, as well as potential candidates in the workforce system for Computer Systems Analysts in Louisiana by parishes on December 8, 2020 (Jobs De-duplication Level 2).

Rank	Area Name	Median Wage	Job Openings	Green Job Count	Candidates	Candidates per Job
1	<u>Ouachita Parish</u>	\$68,543 state level wages	<u>1</u>	0	36	36.00
2	<u>St. Tammany Parish</u>	\$68,543 state level wages	<u>2</u>	0	49	24.50
3	<u>Vernon Parish</u>	\$68,543 state level wages	<u>2</u>	0	33	16.50
4	<u>Caddo Parish</u>	\$68,543 state level wages	<u>3</u>	0	41	13.67
5	<u>Orleans Parish</u>	\$68,543 state level wages	<u>21</u>	<u>1</u>	71	3.38
6	<u>Lafayette Parish</u>	\$68,543 state level wages	<u>15</u>	0	44	2.93
7	<u>East Baton Rouge Parish</u>	\$68,543 state level wages	<u>31</u>	0	61	1.97
8	<u>Acadia Parish</u>	\$68,543 state level wages	0	0	36	N/A

Rank	Area Name	Median Wage	Job Openings	Green Job Count	Candidates	Candidates per Job
9	<u>Allen Parish</u>	\$68,543 state level wages	0	0	34	N/A
10	<u>Ascension Parish</u>	\$68,543 state level wages	0	0	52	N/A



Candidates per Job



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 2018 survey.

National Supply and Demand Summary

Computer Systems Analysts

Employment of computer systems analysts is projected to grow 7 percent from 2019 to 2029, faster than the average for all occupations.

As organizations across the economy increase their reliance on information technology (IT), analysts will be hired to design and install new computer systems. Smaller firms with minimal IT requirements will find it more cost effective to contract with cloud service providers, or to industries that employ expert IT service providers, for these workers. This contracting should lead to job growth in both the data processing, hosting, and related services industry and the computer systems design and related services industry.

Additional job growth is expected in healthcare fields. Computer systems analysts will be needed to accommodate the anticipated increase in the use and implementation of electronic health records, e-prescribing, and other forms of healthcare IT.

Job Prospects

An understanding of the specific field an analyst is working in is helpful in getting a position. For example, a hospital may desire an analyst with a background or coursework in health management. Overall, candidates with a background in business may have better prospects because jobs for computer systems analysts often require knowledge of an organization’s business needs.

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 and green jobs advertised online for Computer Systems Analysts in Louisiana on December 8, 2020 (Jobs De-duplication Level 2).

Rank	Employer Name	Job Openings	Green Job Count
1	CACI International Inc	<u>6</u>	0
2	Aptim	<u>4</u>	0
3	CGI Inc.	<u>4</u>	0
4	CGI Federal Inc.	<u>3</u>	0
5	Baton Rouge General	<u>2</u>	0
6	Bernhard MCC, LLC	<u>2</u>	0
7	Hancock Whitney	<u>2</u>	0
8	Ochsner Health System	<u>2</u>	0
9	Pool Corporation	<u>2</u>	0
10	St. Jude Children's Research Hospital Inc.	<u>2</u>	0

Source: Online advertised jobs data

Advertised Job Skills

This section shows the top advertised detailed job skills found in job openings advertised online for Computer Systems Analysts in Louisiana in November, 2020. (Jobs De-duplication Level 1)

Rank	Advertised Detailed Job Skill	Advertised Skill Group	Job Opening Match Count
1	Problem solving	Basic Skills	<u>35</u>
2	Data analytics	Data Analyst Skills	<u>27</u>
3	Customer service	Customer Service Skills	<u>17</u>
4	Attention to detail	Basic Skills	<u>17</u>
5	Willingness to learn	Basic Skills	<u>11</u>

Rank	Advertised Detailed Job Skill	Advertised Skill Group	Job Opening Match Count
6	Risk management	Risk Analyst Skills	<u>11</u>
7	Providing information	Administrative Assistant Skills	<u>11</u>
8	Application design	Programmer Skills	<u>10</u>
9	Interpersonal skills	Interpersonal Skills	<u>10</u>
10	Critical thinking	Basic Skills	<u>10</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 Computer Systems Analysts in Louisiana in November, 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>41</u>
2	Structured query language (SQL)	Database User Interface and Query Software	<u>26</u>
3	Microsoft PowerPoint	Presentation Software	<u>17</u>
4	Atlassian Confluence	Network Conferencing Software	<u>9</u>
5	Extensible markup language (XML)	Enterprise Application Integration Software	<u>7</u>
6	Oracle SQL Developer	Development Environment Software	<u>6</u>
7	Oracle PeopleSoft	Enterprise Resource Planning (ERP) Software	<u>6</u>
8	Directory servers	High End Computer Servers	<u>6</u>
9	Tableau	Business Intelligence and Data Analysis Software	<u>6</u>
10	Oracle SQL	Database Management System Software	<u>6</u>

Source: Online advertised jobs data

Typical Job Skills

This section shows the job skills that are related to Computer Systems Analysts.

Rank	Typical Job Skills	Typical Skill Category
1	Coordinate software or hardware installation	Interacting With Others
2	Monitor computer system performance to ensure proper operation	Information Input
3	Test software performance	Information Input
4	Troubleshoot issues with computer applications or systems	Work Output

Rank	Typical Job Skills	Typical Skill Category
5	Modify software programs to improve performance	Mental Processes
6	Apply information technology to solve business or other applied problems	Mental Processes
7	Write computer programming code	Work Output
8	Collaborate with others to determine design specifications or details	Interacting With Others
9	Analyze data to identify or resolve operational problems	Mental Processes
10	Manage information technology projects or system activities	Interacting With Others
11	Supervise information technology personnel	Interacting With Others
12	Configure computer networks	Work Output
13	Develop testing routines or procedures	Mental Processes
14	Document design or development procedures	Work Output
15	Train others in computer interface or software use	Interacting With Others
16	Evaluate utility of software or hardware technologies	Mental Processes
17	Develop diagrams or flow charts of system operation	Mental Processes
18	Provide technical support for software maintenance or use	Interacting With Others
19	Read documents to gather technical information	Information Input
20	Analyze project data to determine specifications or requirements	Mental Processes
21	Design integrated computer systems	Mental Processes
22	Identify information technology project resource requirements	Mental Processes
23	Collect data about customer needs	Information Input
24	Estimate time or monetary resources needed to complete projects	Information Input
25	Provide recommendations to others about computer hardware	Interacting With Others

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 Computer Systems Analysts. Click on a link in the Personal Skills column to view more detailed information.

Personal Skill	Skill Description	Rank by Importance (Out of 100)
Critical Thinking	Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.	72
Active Listening	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.	72
Reading Comprehension	Understanding written sentences and paragraphs in work related documents.	72

Personal Skill	Skill Description	Rank by Importance (Out of 100)
<u>Speaking</u>	Talking to others to convey information effectively.	69
<u>Systems Analysis</u>	Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.	69
<u>Writing</u>	Communicating effectively in writing as appropriate for the needs of the audience.	63
<u>Active Learning</u>	Understanding the implications of new information for both current and future problem-solving and decision-making.	63
<u>Complex Problem Solving</u>	Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.	60
<u>Judgment and Decision Making</u>	Considering the relative costs and benefits of potential actions to choose the most appropriate one.	60
<u>Time Management</u>	Managing one's own time and the time of others.	56
<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.	56
<u>Monitoring</u>	Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.	56
<u>Operation Monitoring</u>	Watching gauges, dials, or other indicators to make sure a machine is working properly.	53
<u>Programming</u>	Writing computer programs for various purposes.	53
<u>Troubleshooting</u>	Determining causes of operating errors and deciding what to do about it.	50
<u>Learning Strategies</u>	Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.	50
<u>Mathematics</u>	Using mathematics to solve problems.	50
<u>Operations Analysis</u>	Analyzing needs and product requirements to create a design.	50
<u>Coordination</u>	Adjusting actions in relation to others' actions.	50
<u>Social Perceptiveness</u>	Being aware of others' reactions and understanding why they react as they do.	50
<u>Service Orientation</u>	Actively looking for ways to help people.	47
<u>Instructing</u>	Teaching others how to do something.	47

Personal Skill	Skill Description	Rank by Importance (Out of 100)
<u>Technology Design</u>	Generating or adapting equipment and technology to serve user needs.	47
<u>Quality Control Analysis</u>	Conducting tests and inspections of products, services, or processes to evaluate quality or performance.	47
<u>Management of Personnel Resources</u>	Motivating, developing, and directing people as they work, identifying the best people for the job.	44
<u>Persuasion</u>	Persuading others to change their minds or behavior.	44
<u>Negotiation</u>	Bringing others together and trying to reconcile differences.	38
<u>Equipment Selection</u>	Determining the kind of tools and equipment needed to do a job.	35
<u>Science</u>	Using scientific rules and methods to solve problems.	31
<u>Management of Financial Resources</u>	Determining how money will be spent to get the work done, and accounting for these expenditures.	25
<u>Operation and Control</u>	Controlling operations of equipment or systems.	25
<u>Management of Material Resources</u>	Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to do certain work.	22
<u>Installation</u>	Installing equipment, machines, wiring, or programs to meet specifications.	19
<u>Equipment Maintenance</u>	Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.	13
<u>Repairing</u>	Repairing machines or systems using the needed tools.	13

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

Computer Systems Analysts Computer Systems Analysts usually require at least a Bachelor'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 Computer Systems Analysts.

Rank	Required Level of Education	Percentage of Respondents
1	Bachelor's Degree	33.34%

Rank	Required Level of Education	Percentage of Respondents
2	Associate's Degree (or other 2-year degree)	29.03%
3	Master's Degree	14.21%
4	Post-Baccalaureate Certificate - awarded for completion of an organized program of study; designed for people who have completed a Baccalaureate degree but do not meet the requirements of academic degrees carrying the title of Master.	11.26%
5	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)	5.80%
6	Some College Courses	3.85%
7	High School Diploma - or the equivalent (for example, GED)	2.51%

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 Computer Systems Analysts.

Rank	On The Job Training	Percentage of Respondents
1	Over 3 months, up to and including 6 months	36.56%
2	Over 1 year, up to and including 2 years	18.82%
3	Over 1 month, up to and including 3 months	18.77%
4	Anything beyond short demonstration, up to and including 1 month	16.02%
5	Over 6 months, up to and including 1 year	7.12%
6	Over 4 years, up to and including 10 years	2.71%

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 Computer Systems Analysts.

Rank	On-Site or In-Plant Training	Percentage of Respondents
1	Up to and including 1 month	32.88%
2	Over 1 month, up to and including 3 months	27.77%
3	Over 4 years, up to and including 10 years	10.58%
4	Over 1 year, up to and including 2 years	10.55%

Rank	On-Site or In-Plant Training	Percentage of Respondents
5	Over 3 months, up to and including 6 months	9.63%
6	None	4.92%
7	Over 6 months, up to and including 1 year	3.67%

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 and green jobs advertised online, as well as the educational attainment of potential candidates in the workforce system that are looking for jobs as Computer Systems Analysts in Louisiana on December 8, 2020. There were 55 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	Green Job Count	Percentage of Green Jobs	Potential Candidates	Percentage of Potential Candidates
1	No Minimum Education Requirement	<u>1</u>	1.33%	0	0.00%	0	N/A
2	High School Diploma or Equivalent	<u>5</u>	6.67%	<u>1</u>	50.00%	19	13.67%
3	1 Year of College or a Technical or Vocational School	0	N/A	0	N/A	9	6.47%
4	2 Years of College or a Technical or Vocational School	0	N/A	0	N/A	8	5.76%
5	3 Years of College or a Technical or Vocational School	0	N/A	0	N/A	5	3.60%
6	Vocational School Certificate	<u>1</u>	1.33%	0	0.00%	7	5.04%
7	Associate's Degree	<u>2</u>	2.67%	0	0.00%	20	14.39%
8	Bachelor's Degree	<u>11</u>	14.67%	0	0.00%	53	38.13%
9	Master's Degree	0	N/A	0	N/A	17	12.23%
10	Doctorate Degree	0	N/A	0	N/A	1	0.72%
11	Not Specified	<u>55</u>	73.33%	<u>1</u>	50.00%	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 Computer Systems Analysts in Louisiana.

Provider Name	Program Name	Location	Tuition	Length	WIOA Eligible
Baton Rouge Community College	CompTIA Linux+ An industry-recognized certificate or certification	Baton Rouge, LA	\$1,295	75 Hours	
Baton Rouge Community College	CompTIA Linux+ An industry-recognized certificate or certification	Baton Rouge, LA	\$1,295	75 Hours	
Baton Rouge Community College	CompTIA Linux+ An industry-recognized certificate or certification	New Roads, LA	\$1,295	75 Hours	
Baton Rouge Community College	CompTIA Linux+ An industry-recognized certificate or certification	Baton Rouge, LA	\$1,295	75 Hours	
Baton Rouge Community College	CompTIA Linux+ An industry-recognized certificate or certification	Central, LA	\$1,295	75 Hours	
Baton Rouge Community College	CompTIA Linux+ An industry-recognized certificate or certification	Jackson, LA	\$1,295	75 Hours	
Baton Rouge Community College	CompTIA Linux+ An industry-recognized certificate or certification	Port Allen, LA	\$1,295	75 Hours	
Baton Rouge Community College	CompTIA Linux+ An industry-recognized certificate or certification	Baton Rouge, LA	\$1,295	75 Hours	
Baton Rouge School of Computers	Computer Information Systems An associate degree	BATON ROUGE, LA	\$32,708	14 Months	
Baton Rouge School of Computers	Micro-Computer Lit An associate degree, Employment	BATON ROUGE, LA	\$16,354	7 Months	

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 Computer Systems Analysts in Louisiana in November, 2020. (Jobs De-duplication Level 1)

Rank	Advertised Certification Group	Advertised Certification Sub-Category	Job Opening Match Count
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Rank	Advertised Certification Group	Advertised Certification Sub-Category	Job Opening Match Count
1	Project Management Institute (PMI) Certifications	Business Planning	6
2	Scrum Alliance Certifications	Software	3
3	Cisco Associate Certifications	Computer Network	3
4	Scrum.org Certifications	Software	2
5	Aviat Networks Certifications	Utilities Install and Repair	2
6	American Heart Association (AHA) CPR & First Aid Certifications	Nursing	1
7	Nursing Credentials and Certifications	Nursing	1
8	National Board for Respiratory Care (NBRC)	Medical Treatment and Therapy	1
9	American Institute of CPAs (AICPA) Certifications	Financial Specialists	1
10	Commercial Drivers License (CDL)	Ground Transportation	1

Source: Online advertised jobs data

Training Program Completers

There is no data available for Computer Systems Analysts in Louisiana.

National Education, Training, Licensing and Qualifications

Computer Systems Analysts

A bachelor's degree in a computer or information science field is common, although not always a requirement. Some firms hire analysts with business or liberal arts degrees who have skills in information technology or computer programming.

Education

Most computer systems analysts have a bachelor's degree in a computer-related field. Because these analysts also are heavily involved in the business side of a company, it may be helpful to take business courses or major in management information systems.

Some employers prefer applicants who have a master's degree in business administration (MBA) with a concentration in information systems. For more technically complex jobs, a master's degree in computer science may be more appropriate.

Although many computer systems analysts have technical degrees, such a degree is not always a requirement. Many analysts have liberal arts degrees and have gained programming or technical expertise elsewhere.

Many systems analysts continue to take classes throughout their careers so that they can learn about new and innovative technologies. Technological advances come so rapidly in the computer field that continual study is necessary to remain competitive.

Systems analysts must understand the business field they are working in. For example, a hospital may want an analyst with a thorough understanding of health plans and programs such as Medicare and Medicaid, and an analyst working for a bank may need to understand finance. Having knowledge of their industry helps systems analysts communicate with managers to determine the role of the information technology (IT) systems in an organization.

Advancement

With experience, systems analysts can advance to project manager and lead a team of analysts. Some can eventually become IT directors or chief technology officers. For more information, see the profile on computer and information systems managers

Important Qualities

Analytical skills

Analysts must interpret complex information from various sources and decide the best way to move forward on a project. They must also figure out how changes may affect the project.

Communication skills

Analysts work as a go-between with management and the IT department and must explain complex issues in a way that both will understand.

Creativity.

Because analysts are tasked with finding innovative solutions to computer problems, an ability to “think outside the box” is important.

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

Typical Work Experience Requirements

Computer Systems Analysts 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 Computer Systems Analysts.

Rank	Related Work Experience	Percentage of Respondents
1	Over 1 year, up to and including 2 years	27.60%
2	Over 4 years, up to and including 6 years	21.95%
3	Over 2 years, up to and including 4 years	14.97%

Rank	Related Work Experience	Percentage of Respondents
4	Over 10 years	14.15%
5	Over 8 years, up to and including 10 years	10.35%
6	Over 6 years, up to and including 8 years	7.49%
7	Over 6 months, up to and including 1 year	3.48%

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 and green jobs advertised online, as well as the experience level of potential candidates in the workforce system that are looking for jobs as Computer Systems Analysts in Louisiana on December 8, 2020. There were 61 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	Green Job Count	Percentage of Green Jobs	Potential Candidates	Percentage of Potential Candidates
1	Not Specified	61	81.33%	1	100.00%	0	N/A
2	Entry Level	5	6.67%	0	0.00%	0	N/A
3	Less than 1 year	0	N/A	0	N/A	4	2.88%
4	1 Year to 2 Years	4	5.33%	0	0.00%	1	0.72%
5	2 Years to 5 Years	5	6.67%	0	0.00%	7	5.04%
6	5 Years to 10 Years	0	N/A	0	N/A	15	10.79%
7	More than 10 Years	0	N/A	0	N/A	112	80.58%

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 Computer Systems Analysts. 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 Computer Systems Analysts in 2018.

Rate Type / Statistical Type	Q1	Entry level	Median	Experienced	Q3
Annual wage or salary	\$53,319	\$46,555	\$68,543	\$85,560	\$87,847
Hourly wage	\$25.63	\$22.38	\$32.95	\$41.13	\$42.23

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 75 job openings advertised online for Computer Systems Analysts in Louisiana that posted a salary on December 8, 2020.

Rate Type / Statistical Type	Entry Level	Median	Experienced
Annual wage or salary	\$63,221	\$86,559	\$106,232
Hourly Wage	\$30.39	\$41.61	\$51.07

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 Computer Systems Analysts in Louisiana on December 8, 2020.

Rank	Desired Salary	Potential Candidates	Percentage of Potential Candidates
1	Not Specified	25	17.99%
2	\$20,000 - \$34,999	22	15.83%
3	\$35,000 - \$49,999	36	25.90%
4	\$50,000 - \$64,999	25	17.99%
5	\$65,000 - \$79,999	17	12.23%
6	\$80,000 - \$94,999	7	5.04%
7	\$95,000 or more	7	5.04%

Source: Individuals with active résumés in the workforce system.

Wage Rates Area Distribution

There is no data available for Computer Systems Analysts in Louisiana.

Wage Rates in Related Occupations

This section shows a comparison of 2018 median annual rates for occupations that are in the same occupational family as Computer Systems Analysts for Louisiana.

Rank	Occupation	Median	*Related By
1	Pathologists 🌟	\$164,463	O*NET

Rank	Occupation	Median	*Related By
2	<u>Petroleum Engineers</u>	\$128,991	O*NET
3	<u>Computer and Information Systems Managers</u> ✨	\$104,877	O*NET
4	<u>Environmental Engineers</u> 🌱	\$104,843	O*NET
5	<u>Geoscientists, Except Hydrologists and Geographers</u> 🌱	\$98,718	O*NET
6	<u>Industrial Engineers</u> ✨ 🌱	\$93,185	O*NET
7	<u>Electrical Engineers</u> 🌱	\$91,002	O*NET
8	<u>Computer and Information Research Scientists</u> ✨	\$90,153	O*NET
9	<u>Industrial Safety and Health Engineers</u> 🌱	\$85,523	O*NET
10	<u>Industrial Engineering Technicians</u> 🌱	\$82,034	O*NET
11	<u>Validation Engineers</u> 🌱	\$81,992	O*NET
12	<u>Database Administrators</u> ✨	\$80,017	O*NET
13	<u>Software Developers, Applications</u> ✨	\$79,753	O*NET
14	<u>Statisticians</u> ✨	\$79,036	O*NET
15	<u>Computer Hardware Engineers</u>	\$77,939	O*NET
16	<u>Software Developers, Systems Software</u> ✨ 🌱	\$73,552	O*NET
17	<u>Computer Network Architects</u>	\$73,217	O*NET
18	<u>Information Security Analysts</u> ✨	\$72,516	O*NET
19	<u>Logistics Engineers</u> 🌱	\$72,442	O*NET
20	<u>Occupational Health and Safety Specialists</u> 🌱	\$71,755	O*NET
21	<u>Transportation Planners</u> 🌱	\$71,423	O*NET
22	<u>Informatics Nurse Specialists</u> ✨	\$68,543	O*NET
23	<u>Computer Programmers</u>	\$66,543	O*NET
24	<u>Network and Computer Systems Administrators</u>	\$64,569	O*NET
25	<u>Software Quality Assurance Engineers and Testers</u> ✨	\$62,800	O*NET
26	<u>Computer Systems Engineers/Architects</u> ✨	\$62,800	O*NET
27	<u>Web Administrators</u> ✨	\$62,800	O*NET
28	<u>Geographic Information Systems Technicians</u> ✨ 🌱	\$62,800	O*NET
29	<u>Web Developers</u> ✨	\$56,619	O*NET
30	<u>Landscape Architects</u> 🌱	\$52,090	O*NET
31	<u>Epidemiologists</u>	\$51,486	O*NET

🌟 BRIGHT OUTLOOK NATIONALLY | 🌱 GREEN OCCUPATIONS

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.

Wage Rates by Industry

There is no data available for Computer Systems Analysts in Louisiana.

National Earnings Data Summary

Computer Systems Analysts

The median annual wage for computer systems analysts was \$90,920 in May 2019. 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 \$55,180, and the highest 10 percent earned more than \$147,670.

In May 2019, the median annual wages for computer systems analysts in the top industries in which they worked were as follows:

Information	\$93,710
Computer systems design and related services	93,280
Management of companies and enterprises	93,220
Finance and insurance	92,000
Government	80,570

Most systems analysts work full time. Some work more than 40 hours per week.

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

Occupational Employment & Future Employment Outlook

This section shows the long term employment projections for Computer Systems Analysts in Louisiana from 2016-2026.

Occupation	2016 Estimated Employment	2026 Projected Employment	Total 2016- 2026 Employment Change	2016-2026 Annual Avg. Percent Change
Computer Systems Analysts	1,971	2,415	444	2.05%
Total All	2,034,986	2,203,144	168,158	0.80%

Source: Occupational Employment Projections

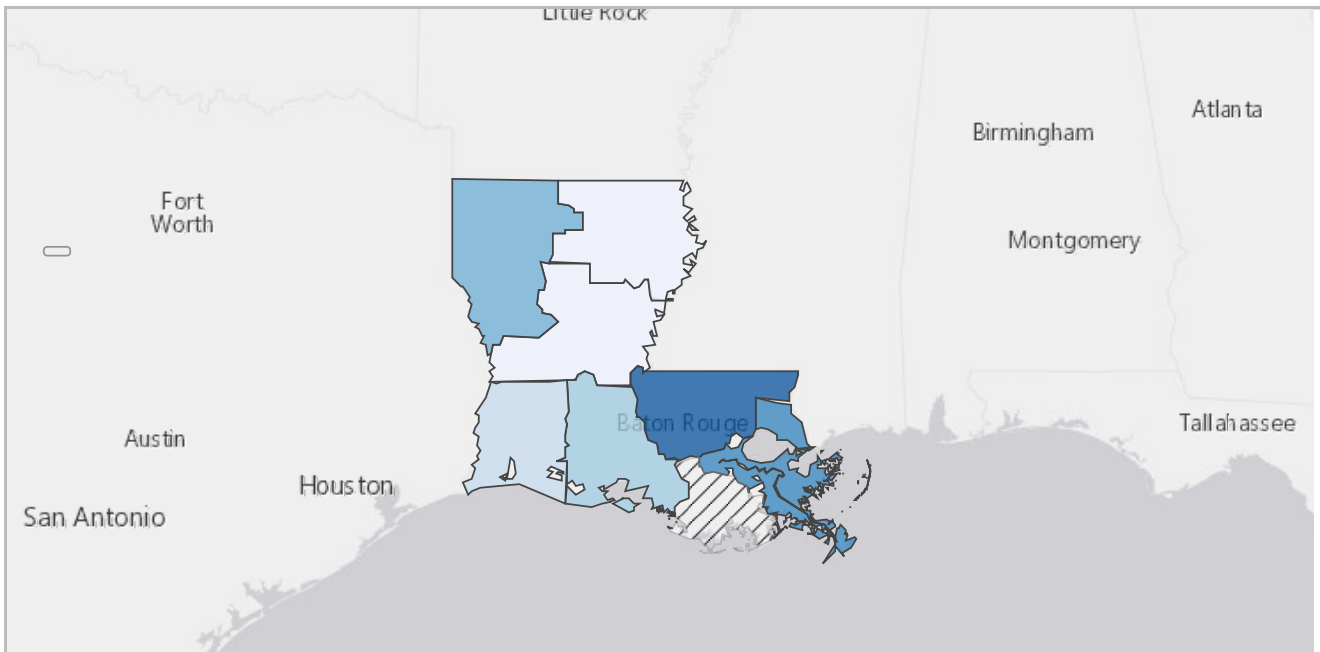
Employment Data Area Distribution

This section shows the distribution of the estimated employment for Computer Systems Analysts in Louisiana by regional labor market area.

Rank	Area	2016 Estimated Employment
1	2nd Regional Labor Market Area, Baton Rouge	710
2	1st Regional Labor Market Area, New Orleans	612
3	7th Regional Labor Market Area, Shreveport	227

Rank	Area	2016 Estimated Employment
4	<u>4th Regional Labor Market Area, Lafayette</u>	171
5	<u>5th Regional Labor Market Area, Lake Charles</u>	130
6	<u>8th Regional Labor Market Area, Monroe</u>	80
7	<u>6th Regional Labor Market Area, Alexandria</u>	47
*	<u>3rd Regional Labor Market Area, Houma</u>	Confidential

* Rank is suppressed for confidential data.



Estimated Employment




























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 Computer Systems Analysts.

Rank	Occupation	2016 Estimated Employment	*Related By
1	<u>Pathologists</u> ✨	6,352	O*NET
2	<u>Validation Engineers</u> 🌱	3,698	O*NET
3	<u>Network and Computer Systems Administrators</u>	2,953	O*NET
4	<u>Computer Systems Engineers/Architects</u> ✨	2,873	O*NET

Rank	Occupation	2016 Estimated Employment	*Related By
5	Geographic Information Systems Technicians  	2,873	O*NET
6	Software Quality Assurance Engineers and Testers 	2,873	O*NET
7	Web Administrators 	2,873	O*NET
8	Computer Programmers	2,505	O*NET
9	Industrial Engineers  	2,104	O*NET
10	Informatics Nurse Specialists 	1,971	O*NET
11	Computer and Information Systems Managers 	1,930	O*NET
12	Petroleum Engineers	1,645	O*NET
13	Electrical Engineers 	1,557	O*NET
14	Software Developers, Applications 	1,411	O*NET
15	Occupational Health and Safety Specialists 	1,317	O*NET
16	Software Developers, Systems Software  	1,203	O*NET
17	Geoscientists, Except Hydrologists and Geographers 	1,060	O*NET
18	Logistics Engineers 	795	O*NET
19	Information Security Analysts 	757	O*NET
20	Industrial Safety and Health Engineers 	646	O*NET
21	Web Developers 	560	O*NET
22	Database Administrators 	508	O*NET
23	Environmental Engineers 	481	O*NET
24	Industrial Engineering Technicians 	404	O*NET
25	Computer Network Architects	246	O*NET
26	Computer Hardware Engineers	206	O*NET
27	Transportation Planners 	146	O*NET
28	Statisticians 	53	O*NET
29	Computer and Information Research Scientists 	40	O*NET
*	Epidemiologists	Confidential	O*NET
*	Landscape Architects 	Confidential	O*NET

 BRIGHT OUTLOOK NATIONALLY |  GREEN OCCUPATIONS

* Rank is suppressed for confidential data.

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](#).

Projected Annual Openings

This section shows the long term projected annual openings for Computer Systems Analysts in Louisiana from 2016 to 2026.

Occupation	Total Annual Average Openings	Annual Average Openings Due to Growth	Annual Average Openings Due to Replacement
Computer Systems Analysts	N/A	N/A	N/A
Computer and Mathematical	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 Computer Systems Analysts 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>4th Regional Labor Market Area, Lafayette</u>	N/A
4	<u>5th Regional Labor Market Area, Lake Charles</u>	N/A
5	<u>6th Regional Labor Market Area, Alexandria</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>3rd Regional Labor Market Area, Houma</u>	Confidential

* Rank is suppressed for confidential data.

























There is no total annual average openings data available for Computer Systems Analysts in Louisiana.

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 Computer Systems Analysts from 2016 to 2026.

Rank	Occupation	Total Annual Average Openings	*Related By
1	<u>Computer and Information Research Scientists</u> ♦	N/A	O*NET
2	<u>Computer and Information Systems Managers</u> ♦	N/A	O*NET
3	<u>Computer Hardware Engineers</u>	N/A	O*NET
4	<u>Computer Network Architects</u>	N/A	O*NET
5	<u>Computer Programmers</u>	N/A	O*NET
6	<u>Computer Systems Engineers/Architects</u> ♦	N/A	O*NET
7	<u>Database Administrators</u> ♦	N/A	O*NET

Rank	Occupation	Total Annual Average Openings	*Related By
8	Electrical Engineers 	N/A	O*NET
9	Environmental Engineers 	N/A	O*NET
10	Geographic Information Systems Technicians  	N/A	O*NET
11	Geoscientists, Except Hydrologists and Geographers 	N/A	O*NET
12	Industrial Engineering Technicians 	N/A	O*NET
13	Industrial Engineers  	N/A	O*NET
14	Industrial Safety and Health Engineers 	N/A	O*NET
15	Informatics Nurse Specialists 	N/A	O*NET
16	Information Security Analysts 	N/A	O*NET
17	Logistics Engineers 	N/A	O*NET
18	Network and Computer Systems Administrators	N/A	O*NET
19	Occupational Health and Safety Specialists 	N/A	O*NET
20	Pathologists 	N/A	O*NET
21	Petroleum Engineers	N/A	O*NET
22	Software Developers, Applications 	N/A	O*NET
23	Software Developers, Systems Software  	N/A	O*NET
24	Software Quality Assurance Engineers and Testers 	N/A	O*NET
25	Statisticians 	N/A	O*NET
26	Transportation Planners 	N/A	O*NET
27	Validation Engineers 	N/A	O*NET
28	Web Administrators 	N/A	O*NET
29	Web Developers 	N/A	O*NET
*	Epidemiologists	Confidential	O*NET
*	Landscape Architects 	Confidential	O*NET

 BRIGHT OUTLOOK NATIONALLY |  GREEN OCCUPATIONS

* Rank is suppressed for confidential data.

Source: Occupational Employment Projections

Industries by Employment

This section shows the industries that employed the highest number of Computer Systems Analysts in Louisiana in 2016.

Rank	Industry Title	Estimated Employment	Percent of Total Employment
1	Professional, Scientific, and Technical Services	582	29.53%

Rank	Industry Title	Estimated Employment	Percent of Total Employment
2	<u>Internet Service Providers, Web Search Portals, and Data Processing Services</u>	215	10.91%
3	<u>Management of Companies and Enterprises</u>	127	6.44%
4	<u>Educational Services</u>	97	4.92%
5	<u>Administrative and Support Services</u>	90	4.57%
6	<u>Hospitals</u>	61	3.09%
7	<u>Insurance Carriers and Related Activities</u>	52	2.64%
8	<u>Self-Employed and Unpaid Family Workers, Primary Job</u>	43	2.18%
9	<u>Chemical Manufacturing</u>	37	1.88%
10	<u>Merchant Wholesalers, Durable Goods</u>	34	1.73%

Source: Louisiana Workforce Commission, Occupational Projections Program

Work Activities

This section shows the most common work activities required by Computer Systems Analysts 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)
<u>Interacting With Computers</u>	Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.	91
<u>Getting Information</u>	Observing, receiving, and otherwise obtaining information from all relevant sources.	89
<u>Processing Information</u>	Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.	82
<u>Communicating with Supervisors, Peers, or Subordinates</u>	Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.	81
<u>Making Decisions and Solving Problems</u>	Analyzing information and evaluating results to choose the best solution and solve problems.	78
<u>Analyzing Data or Information</u>	Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.	78
<u>Updating and Using Relevant Knowledge</u>	Keeping up-to-date technically and applying new knowledge to your job.	76
<u>Thinking Creatively</u>	Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.	74

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.	71
<u>Organizing, Planning, and Prioritizing Work</u>	Developing specific goals and plans to prioritize, organize, and accomplish your work.	69
<u>Interpreting the Meaning of Information for Others</u>	Translating or explaining what information means and how it can be used.	67
<u>Establishing and Maintaining Interpersonal Relationships</u>	Developing constructive and cooperative working relationships with others, and maintaining them over time.	65
<u>Monitor Processes, Materials, or Surroundings</u>	Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.	63
<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.	57
<u>Coordinating the Work and Activities of Others</u>	Getting members of a group to work together to accomplish tasks.	56
<u>Judging the Qualities of Things, Services, or People</u>	Assessing the value, importance, or quality of things or people.	56
<u>Developing Objectives and Strategies</u>	Establishing long-range objectives and specifying the strategies and actions to achieve them.	55
<u>Documenting/Recording Information</u>	Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.	52
<u>Developing and Building Teams</u>	Encouraging and building mutual trust, respect, and cooperation among team members.	52
<u>Training and Teaching Others</u>	Identifying the educational needs of others, developing formal educational or training programs or classes, and teaching or instructing others.	52
<u>Coaching and Developing Others</u>	Identifying the developmental needs of others and coaching, mentoring, or otherwise helping others to improve their knowledge or skills.	51
<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.	45

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<u>Scheduling Work and Activities</u>	Scheduling events, programs, and activities, as well as the work of others.	44
<u>Evaluating Information to Determine Compliance with Standards</u>	Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.	43
<u>Communicating with Persons Outside Organization</u>	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.	42
<u>Performing Administrative Activities</u>	Performing day-to-day administrative tasks such as maintaining information files and processing paperwork.	32
<u>Selling or Influencing Others</u>	Convincing others to buy merchandise/goods or to otherwise change their minds or actions.	30
<u>Guiding, Directing, and Motivating Subordinates</u>	Providing guidance and direction to subordinates, including setting performance standards and monitoring performance.	27
<u>Resolving Conflicts and Negotiating with Others</u>	Handling complaints, settling disputes, and resolving grievances and conflicts, or otherwise negotiating with others.	26
<u>Monitoring and Controlling Resources</u>	Monitoring and controlling resources and overseeing the spending of money.	23
<u>Repairing and Maintaining Electronic Equipment</u>	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.	23
<u>Assisting and Caring for Others</u>	Providing personal assistance, medical attention, emotional support, or other personal care to others such as coworkers, customers, or patients.	23
<u>Handling and Moving Objects</u>	Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.	21

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 Computer Systems Analysts 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)
<u>Test, maintain, and monitor computer programs and systems, including coordinating the installation of computer programs and systems.</u>	Core	76
<u>Troubleshoot program and system malfunctions to restore normal functioning.</u>	Core	75
<u>Expand or modify system to serve new purposes or improve work flow.</u>	Core	73
<u>Use the computer in the analysis and solution of business problems, such as development of integrated production and inventory control and cost analysis systems.</u>	Core	73
<u>Consult with management to ensure agreement on system principles.</u>	Core	70
<u>Confer with clients regarding the nature of the information processing or computation needs a computer program is to address.</u>	Core	69
<u>Coordinate and link the computer systems within an organization to increase compatibility so that information can be shared.</u>	Core	68
<u>Train staff and users to work with computer systems and programs.</u>	Core	68
<u>Develop, document, and revise system design procedures, test procedures, and quality standards.</u>	Core	68
<u>Assess the usefulness of pre-developed application packages and adapt them to a user environment.</u>	Core	66
<u>Define the goals of the system and devise flow charts and diagrams describing logical operational steps of programs.</u>	Core	66
<u>Provide staff and users with assistance solving computer-related problems, such as malfunctions and program problems.</u>	Core	65
<u>Use object-oriented programming languages, as well as client and server applications development processes and multimedia and Internet technology.</u>	Supplemental	71
<u>Review and analyze computer printouts and performance indicators to locate code problems, and correct errors by correcting codes.</u>	Supplemental	70
<u>Supervise computer programmers or other systems analysts or serve as project leaders for particular systems projects.</u>	Supplemental	69
<u>Read manuals, periodicals, and technical reports to learn how to develop programs that meet staff and user requirements.</u>	Supplemental	62
<u>Determine computer software or hardware needed to set up or alter system.</u>	Supplemental	60

Tasks	Task Description	Rank by Importance (Out of 100)
<u>Analyze information processing or computation needs and plan and design computer systems, using techniques such as structured analysis, data modeling, and information engineering.</u>	Supplemental	60
<u>Interview or survey workers, observe job performance, or perform the job to determine what information is processed and how it is processed.</u>	Supplemental	59
<u>Prepare cost-benefit and return-on-investment analyses to aid in decisions on system implementation.</u>	Supplemental	58
<u>Specify inputs accessed by the system and plan the distribution and use of the results.</u>	Supplemental	58
<u>Recommend new equipment or software packages.</u>	Supplemental	52

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

Computer Systems Analysts

Computer systems analysts held about 632,400 jobs in 2019. The largest employers of computer systems analysts were as follows:

Computer systems design and related services	28%
Finance and insurance	14
Management of companies and enterprises	9
Information	7
Government	6

Computer systems analysts can work directly for an organization or as contractors, often working for an information technology firm. The projects that computer systems analysts work on usually require them to collaborate and coordinate with others.

Analysts who work on contracts in the computer systems design and related services industry may move from one project to the next as they complete work for clients.

Work Schedules

Most systems analysts work full time. Some work more than 40 hours per week.

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

Typical Work Conditions

This section shows the most common work conditions required by Computer Systems Analysts 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?	100
Telephone	How often do you have telephone conversations in this job?	97
Indoors, Environmentally Controlled	How often does this job require working indoors in environmentally controlled conditions?	94
Work With Work Group or Team	How important is it to work with others in a group or team in this job?	89
Spend Time Sitting	How much does this job require sitting?	87
Importance of Being Exact or Accurate	How important is being very exact or highly accurate in performing this job?	87
Face-to-Face Discussions	How often do you have to have face-to-face discussions with individuals or teams in this job?	85
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?	80
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?	79
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?	78
Coordinate or Lead Others	How important is it to coordinate or lead others in accomplishing work activities in this job?	76
Time Pressure	How often does this job require the worker to meet strict deadlines?	74
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?	71
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?	68
Spend Time Making Repetitive Motions	How much does this job require making repetitive motions?	68
Freedom to Make Decisions	How much decision making freedom, without supervision, does the job offer?	67
Responsibility for Outcomes and Results	How responsible is the worker for work outcomes and results of other workers?	67

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
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?	57
Deal With External Customers	How important is it to work with external customers or the public in this job?	57
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?	54
Level of Competition	To what extent does this job require the worker to compete or to be aware of competitive pressures?	54
Physical Proximity	To what extent does this job require the worker to perform job tasks in close physical proximity to other people?	48
Letters and Memos	How often does the job require written letters and memos?	47
Frequency of Conflict Situations	How often are there conflict situations the employee has to face in this job?	46
Degree of Automation	How automated is the job?	46
Consequence of Error	How serious would the result usually be if the worker made a mistake that was not readily correctable?	44
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?	43
Public Speaking	How often do you have to perform public speaking in this job?	35
Responsible for Others' Health and Safety	How much responsibility is there for the health and safety of others in this job?	32
Exposed to Hazardous Conditions	How often does this job require exposure to hazardous conditions?	26
Spend Time Standing	How much does this job require standing?	21

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)
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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.	70
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.	67
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.	67
Independence	Occupations that satisfy this work value allow employees to work on their own and make decisions. Corresponding needs are Creativity, Responsibility and Autonomy.	67
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.	56
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.	45

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 Computer Systems Analysts.

Detailed Tool	Tool Group
Desktop computers	Desktop computers
Mainframe computers	Mainframe computers
Notebook computers	Notebook computers
Personal digital assistants PDA	Personal digital assistant PDAs or organizers

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 Computer Systems Analysts.

Detailed Technology	Technology Group
Access management software	Access software

Detailed Technology

Citrix

Fund accounting software

Tax software

Cisco Systems CiscoWorks

Element management software

Hierarchical simulation program with integrated circuit emphasis HSPICE

IBM SPSS Statistics

Minitab

SAS

StataCorp Stata

Structure prediction software

The MathWorks MATLAB

Docker

GitHub

Oracle Application Server

Oracle WebLogic Server

Red Hat WildFly

Spring Boot

System and data disaster recovery software

Veritas NetBackup

Business intelligence system software

IBM Cognos Impromptu

MicroStrategy

Oracle Business Intelligence Enterprise Edition

Qlik Tech QlikView

Tableau

IBM Domino

Time sharing option TSO software

Computer aided design and drafting CADD software

Dassault Systemes CATIA

Electronic design automation EDA software

OrCAD Capture

SpectraQuest

Application management software

Technology Group

Access software

Accounting software

Accounting software

Administration software

Administration software

Analytical or scientific software

Analytical or scientific software

Analytical or scientific software

Analytical or scientific software

Analytical or scientific software

Analytical or scientific software

Analytical or scientific software

Application server software

Application server software

Application server software

Application server software

Application server software

Application server software

Backup or archival software

Backup or archival software

Business intelligence and data analysis software

Business intelligence and data analysis software

Business intelligence and data analysis software

Business intelligence and data analysis software

Business intelligence and data analysis software

Business intelligence and data analysis software

Communications server software

Compiler and decompiler software

Computer aided design CAD software

Computer aided design CAD software

Computer aided design CAD software

Computer aided design CAD software

Computer aided design CAD software

Configuration management software

Detailed Technology

Automated installation software
Chef
HyperSpace
IBM Rational ClearCase
InstallShield
Patch and update management software
Perforce Helix software
Puppet
Software distribution software
Systems and application deployment and migration software
VMWare
Wise Solutions Wise for Windows Installer
Atlassian JIRA
Blackbaud The Raiser's Edge
Oracle Eloqua
Salesforce software
Apache Cassandra
Apache Hadoop
Apache Hive
Apache Pig
Apache Solr
Elasticsearch
MongoDB
MySQL
NoSQL
Oracle DBMS
Oracle PL/SQL
Relational database management software
SAP Adaptive Server Enterprise
Teradata Database
Microsoft SQL Server Reporting Services
Oracle Business Intelligence Suite
SAP Crystal Reports
Amazon Elastic Compute Cloud EC2

Technology Group

Configuration management software
Configuration management software
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Configuration management software
Configuration management software
Configuration management software
Configuration management software
Configuration management software
Configuration management software
Configuration management software
Content workflow software
Customer relationship management CRM software
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Data base management system software
Data base management system software
Data base management system software
Data base reporting software
Data base reporting software
Data base reporting software
Data base user interface and query software

Detailed Technology

J

Microsoft .NET Framework

Microsoft Azure

Microsoft PowerShell

Microsoft Visual Basic

Microsoft Visual Basic for Applications VBA

Microsoft Visual Basic Scripting Edition VBScript

Microsoft Visual Studio

National Instruments LabVIEW

Oracle Java 2 Platform Enterprise Edition J2EE

Ruby

Symantec Visual Cafe

Verilog

Adobe Systems Adobe Acrobat

IBM Notes

Microsoft Exchange Server

Microsoft Outlook

Atlassian Bamboo

Extensible markup language XML

IBM InfoSphere DataStage

IBM WebSphere

Microsoft SQL Server Integration Services SSIS

Oracle Fusion Middleware

SAP Netweaver

SAP Netweaver BW

WebFOCUS

Microsoft Dynamics

Microsoft Dynamics GP

NetSuite ERP

Oracle Fusion Applications

Oracle Hyperion

Oracle JD Edwards EnterpriseOne

Oracle PeopleSoft

Oracle PeopleSoft Financials

SAP

Technology Group

Development environment software

Development environment software

Development environment software

Development environment software

Development environment software

Development environment software

Development environment software

Development environment software

Development environment software

Development environment software

Development environment software

Development environment software

Development environment software

Document management software

Electronic mail software

Electronic mail software

Electronic mail software

Enterprise application integration software

Enterprise application integration software

Enterprise application integration software

Enterprise application integration software

Enterprise application integration software

Enterprise application integration software

Enterprise application integration software

Enterprise application integration software

Enterprise application integration software

Enterprise resource planning ERP software

Enterprise resource planning ERP software

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Enterprise resource planning ERP software

Detailed Technology

SAP Business Objects
IBM Power Systems software
Splunk Enterprise
Ansible software
Apache Subversion SVN
Git
Version control software
Cost estimation software
Delphi Technology
Oracle E-Business Suite Financials
Salesforce Visualforce
Adobe Systems Adobe Fireworks
Adobe Systems Adobe Flash
Adobe Systems Adobe Illustrator
Adobe Systems Adobe Photoshop
Microsoft Visio
Help desk software
ADP Workforce Now
Human resource management software HRMS
Oracle Taleo
Supervisory control and data acquisition SCADA software
LexisNexis
Active directory software
Voice over internet protocol VoiP system software
ESRI ArcGIS software
Geographic information system GIS software
Epic Systems
Healthcare common procedure coding system HCPCS
Medical condition coding software
Medical procedure coding software
MEDITECH software
CA Erwin Data Modeler
Informatica Corporation PowerCenter
Oracle Master Data Management MDM Suite

Technology Group

Enterprise resource planning ERP software
Enterprise system management software
Enterprise system management software
Expert system software
File versioning software
File versioning software
File versioning software
Financial analysis software
Financial analysis software
Financial analysis software
Graphical user interface development software
Graphics or photo imaging software
Graphics or photo imaging software
Graphics or photo imaging software
Graphics or photo imaging software
Graphics or photo imaging software
Helpdesk or call center software
Human resources software
Human resources software
Human resources software
Industrial control software
Information retrieval or search software
Internet directory services software
Internet protocol IP multimedia subsystem software
Map creation software
Map creation software
Medical software
Medical software
Medical software
Medical software
Medical software
Metadata management software
Metadata management software
Metadata management software

Detailed Technology

SAP Master Data Management MDM
Nagios
Network intrusion prevention systems NIPS
Snort
Wireshark
Virtual private networking VPN software
Advanced business application programming ABAP
Apache Groovy
C#
C++
Component object model COM software
Distributed component object model DCOM software
Eiffel
jQuery
Jupyter Notebook
Microsoft ActiveX
Microsoft Visual Basic.NET
Microsoft Visual C# .NET
Objective C
Oracle Java
Practical extraction and reporting language Perl
Python
R
Rapide
Scala
Smalltalk
Swift
Hibernate ORM
Microsoft Visual FoxPro
PostgreSQL
Microsoft Office
Apple macOS
Bash
Hewlett Packard HP-UX

Technology Group

Metadata management software
Network monitoring software
Network monitoring software
Network monitoring software
Network monitoring software
Network security or virtual private network VPN management software
Object or component oriented development software
Object or component oriented development software
Object or component oriented development software
Object or component oriented development software
Object or component oriented development software
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Object or component oriented development software
Object or component oriented development software
Object or component oriented development software
Object or component oriented development software
Object or component oriented development software
Object oriented data base management software
Object oriented data base management software
Object oriented data base management software
Office suite software
Operating system software
Operating system software
Operating system software

Detailed Technology

Cascading Style Sheets CSS
Django
Drupal
Dynamic hypertext markup language DHTML
Enterprise JavaBeans
Ext JS
Extensible HyperText Markup Language XHTML
Google AngularJS
Hypertext markup language HTML
JavaScript
JavaScript Object Notation JSON
LAMP Stack
Microsoft Active Server Pages ASP
Microsoft ASP.NET
Microsoft ASP.NET Core MVC
Node.js
Oracle JavaServer Pages JSP
PHP: Hypertext Preprocessor
React
Ruby on Rails
Spring Framework
Google Docs
Microsoft Word

Technology Group

Web platform development software
Web platform development software
Web platform development software
Web platform development software
Web platform development software
Web platform development software
Web platform development software
Web platform development software
Web platform development software
Web platform development software
Web platform development software
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Web platform development software
Web platform development software
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Web platform development software
Web platform development software
Web platform development 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 Computer Systems Analysts in Louisiana.

Typical Knowledge Categories

This section shows the most common knowledge categories required by Computer Systems Analysts 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)
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Knowledge Category	Knowledge Category Description	Rank by Importance (Out of 100)
<u>Computers and Electronics</u>	Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.	83
<u>English Language</u>	Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.	74
<u>Customer and Personal Service</u>	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.	53
<u>Mathematics</u>	Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.	53
<u>Administration and Management</u>	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.	50
<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.	38
<u>Telecommunications</u>	Knowledge of transmission, broadcasting, switching, control, and operation of telecommunications systems.	38
<u>Engineering and Technology</u>	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.	37
<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.	29
<u>Design</u>	Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.	25
<u>Law and Government</u>	Knowledge of laws, legal codes, court procedures, precedents, government regulations, executive orders, agency rules, and the democratic political process.	22
<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.	21

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.	21

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 Computer Systems Analysts 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)
<u>Oral Comprehension</u>	The ability to listen to and understand information and ideas presented through spoken words and sentences.	75
<u>Deductive Reasoning</u>	The ability to apply general rules to specific problems to produce answers that make sense.	72
<u>Problem Sensitivity</u>	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
<u>Written Comprehension</u>	The ability to read and understand information and ideas presented in writing.	72
<u>Inductive Reasoning</u>	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	69
<u>Information Ordering</u>	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).	69
<u>Near Vision</u>	The ability to see details at close range (within a few feet of the observer).	69
<u>Oral Expression</u>	The ability to communicate information and ideas in speaking so others will understand.	69
<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).	66
<u>Speech Recognition</u>	The ability to identify and understand the speech of another person.	66
<u>Speech Clarity</u>	The ability to speak clearly so others can understand you.	63
<u>Written Expression</u>	The ability to communicate information and ideas in writing so others will understand.	60

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
<u>Category Flexibility</u>	The ability to generate or use different sets of rules for combining or grouping things in different ways.	56
<u>Flexibility of Closure</u>	The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.	53
<u>Mathematical Reasoning</u>	The ability to choose the right mathematical methods or formulas to solve a problem.	53
<u>Number Facility</u>	The ability to add, subtract, multiply, or divide quickly and correctly.	53
<u>Speed of Closure</u>	The ability to quickly make sense of, combine, and organize information into meaningful patterns.	53
<u>Visualization</u>	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	53
<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>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.	50
<u>Selective Attention</u>	The ability to concentrate on a task over a period of time without being distracted.	50
<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.	47
<u>Far Vision</u>	The ability to see details at a distance.	44
<u>Memorization</u>	The ability to remember information such as words, numbers, pictures, and procedures.	41
<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).	38
<u>Visual Color Discrimination</u>	The ability to match or detect differences between colors, including shades of color and brightness.	38
<u>Auditory Attention</u>	The ability to focus on a single source of sound in the presence of other distracting sounds.	25
<u>Hearing Sensitivity</u>	The ability to detect or tell the differences between sounds that vary in pitch and loudness.	25
<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.	22

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
<u>Control Precision</u>	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	22
<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.	19
<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.	16
<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.	13
<u>Wrist-Finger Speed</u>	The ability to make fast, simple, repeated movements of the fingers, hands, and wrists.	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.	6

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 Computer Systems Analysts in order of importance.

Work Interest	Work Interest Description	Rank by Importance (Out of 100)
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.	89
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.	89
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.	56
Enterprising	Enterprising occupations frequently involve starting up and carrying out projects. These occupations can involve leading people and making many decisions. Sometimes they require risk taking and often deal with business.	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 Work Styles

This section shows the most common work styles required by Computer Systems Analysts 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)
<u>Analytical Thinking</u>	Job requires analyzing information and using logic to address work-related issues and problems.	93
<u>Attention to Detail</u>	Job requires being careful about detail and thorough in completing work tasks.	89
<u>Dependability</u>	Job requires being reliable, responsible, and dependable, and fulfilling obligations.	88
<u>Adaptability/Flexibility</u>	Job requires being open to change (positive or negative) and to considerable variety in the workplace.	88
<u>Integrity</u>	Job requires being honest and ethical.	88
<u>Cooperation</u>	Job requires being pleasant with others on the job and displaying a good-natured, cooperative attitude.	83
<u>Stress Tolerance</u>	Job requires accepting criticism and dealing calmly and effectively with high stress situations.	82
<u>Self Control</u>	Job requires maintaining composure, keeping emotions in check, controlling anger, and avoiding aggressive behavior, even in very difficult situations.	78
<u>Persistence</u>	Job requires persistence in the face of obstacles.	77
<u>Initiative</u>	Job requires a willingness to take on responsibilities and challenges.	76
<u>Achievement/Effort</u>	Job requires establishing and maintaining personally challenging achievement goals and exerting effort toward mastering tasks.	69
<u>Innovation</u>	Job requires creativity and alternative thinking to develop new ideas for and answers to work-related problems.	68
<u>Independence</u>	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.	68
<u>Concern for Others</u>	Job requires being sensitive to others' needs and feelings and being understanding and helpful on the job.	64
<u>Leadership</u>	Job requires a willingness to lead, take charge, and offer opinions and direction.	62

Work Style	Work Style Description	Rank by Importance (Out of 100)
<u>Social Orientation</u>	Job requires preferring to work with others rather than alone, and being personally connected with others on the job.	62

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Related Occupations

This section shows a list of occupations related to Computer Systems Analysts. Click an occupation title to see more information about that occupation.

Rank	Related Occupations	Duties	*Related By
1	<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
2	<u>Computer Programmers</u>	Create, modify, and test the code, forms, and script that allow computer applications to run. Work from specifications drawn up by software developers or other individuals. May assist software developers by analyzing user needs and designing software solutions. May develop and write computer programs to store, locate, and retrieve specific documents, data, and information.	O*NET
3	<u>Computer Systems Engineers/Architects</u> ♦	Design and develop solutions to complex applications problems, system administration issues, or network concerns. Perform systems management and integration functions.	O*NET
4	<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
5	<u>Geographic Information Systems Technicians</u> ♦ 🌱	Assist scientists, technologists, or related professionals in building, maintaining, modifying, or using geographic information systems (GIS) databases. May also perform some custom application development or provide user support.	O*NET
6	<u>Informatics Nurse Specialists</u> ♦	Apply knowledge of nursing and informatics to assist in the design, development, and ongoing modification of computerized health care systems. May educate staff and assist in problem solving to promote the implementation of the health care system.	O*NET
7	<u>Information Security Analysts</u> ♦	Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information. May ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure. May respond to computer security breaches and viruses.	O*NET

Rank	Related Occupations	Duties	*Related By
8	<u>Network and Computer Systems Administrators</u>	Install, configure, and support an organization's local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Monitor network to ensure network availability to all system users and may perform necessary maintenance to support network availability. May monitor and test Web site performance to ensure Web sites operate correctly and without interruption. May assist in network modeling, analysis, planning, and coordination between network and data communications hardware and software. May supervise computer user support specialists and computer network support specialists. May administer network security measures.	O*NET
9	<u>Software Developers, Applications</u> ♦	Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May analyze and design databases within an application area, working individually or coordinating database development as part of a team. May supervise computer programmers.	O*NET
10	<u>Software Developers, Systems Software</u> ♦ 🌱	Research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications. Set operational specifications and formulate and analyze software requirements. May design embedded systems software. Apply principles and techniques of computer science, engineering, and mathematical analysis.	O*NET
11	<u>Software Quality Assurance Engineers and Testers</u> ♦	Develop and execute software test plans in order to identify software problems and their causes.	O*NET
12	<u>Web Administrators</u> ♦	Manage web environment design, deployment, development and maintenance activities. Perform testing and quality assurance of web sites and web applications.	O*NET
13	<u>Web Developers</u> ♦	Design, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity. May integrate Web sites with other computer applications. May convert written, graphic, audio, and video components to compatible Web formats by using software designed to facilitate the creation of Web and multimedia content.	O*NET
14	<u>Biologists</u>	Research or study basic principles of plant and animal life, such as origin, relationship, development, anatomy, and functions.	O*NET
15	<u>Computer and Information Research Scientists</u> ♦	Conduct research into fundamental computer and information science as theorists, designers, or inventors. Develop solutions to problems in the field of computer hardware and software.	O*NET
16	<u>Computer and Information Systems Managers</u> ♦	Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.	O*NET

Rank	Related Occupations	Duties	*Related By
17	<u>Computer Hardware Engineers</u>	Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components.	O*NET
18	<u>Electrical Engineers</u>	Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.	O*NET
19	<u>Environmental Engineers</u>	Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.	O*NET
20	<u>Epidemiologists</u>	Investigate and describe the determinants and distribution of disease, disability, or health outcomes. May develop the means for prevention and control.	O*NET
21	<u>Geoscientists, Except Hydrologists and Geographers</u>	Study the composition, structure, and other physical aspects of the Earth. May use geological, physics, and mathematics knowledge in exploration for oil, gas, minerals, or underground water; or in waste disposal, land reclamation, or other environmental problems. May study the Earth's internal composition, atmospheres, oceans, and its magnetic, electrical, and gravitational forces. Includes mineralogists, crystallographers, paleontologists, stratigraphers, geodesists, and seismologists.	O*NET
22	<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.	O*NET
23	<u>Industrial Engineers</u>	Design, develop, test, and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination.	O*NET
24	<u>Industrial Safety and Health Engineers</u>	Plan, implement, and coordinate safety programs, requiring application of engineering principles and technology, to prevent or correct unsafe environmental working conditions.	O*NET
25	<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
26	<u>Logistics Engineers</u>	Design or analyze operational solutions for projects such as transportation optimization, network modeling, process and methods analysis, cost containment, capacity enhancement, routing and shipment optimization, or information management.	O*NET





Rank	Related Occupations	Duties	*Related By
27	<u>Occupational Health and Safety Specialists</u> 	Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector. Includes environmental protection officers.	O*NET
28	<u>Pathologists</u> 	Diagnose presence and stage of diseases using laboratory techniques and patient specimens. Study the nature, cause, and development of diseases. May perform autopsies.	O*NET
29	<u>Petroleum Engineers</u>	Devise methods to improve oil and gas extraction and production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice.	O*NET
30	<u>Statisticians</u> 	Develop or apply mathematical or statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information. May specialize in fields such as bio-statistics, agricultural statistics, business statistics, or economic statistics. Includes mathematical and survey statisticians.	O*NET
31	<u>Transportation Planners</u> 	Prepare studies for proposed transportation projects. Gather, compile, and analyze data. Study the use and operation of transportation systems. Develop transportation models or simulations.	O*NET
32	<u>Validation Engineers</u> 	Design or plan protocols for equipment or processes to produce products meeting internal and external purity, safety, and quality requirements.	O*NET

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Career Ladder

This section shows the top 10 occupations and the corresponding individuals in the workforce system who were previously Computer Systems Analysts and have changed their occupation over the last 5 years.

Occupation Title	Number of Individuals that Moved	Percentage of Individuals that Moved
<u>Computer User Support Specialists</u> 	31	21.99%
<u>Computer Network Support Specialists</u>	18	12.77%
<u>Software Developers, Applications</u> 	17	12.06%
<u>Retail Salespersons</u> 	14	9.93%
<u>Network and Computer Systems Administrators</u>	13	9.22%
<u>Information Technology Project Managers</u> 	13	9.22%

Occupation Title	Number of Individuals that Moved	Percentage of Individuals that Moved
<u>Computer and Information Systems Managers</u> ✨	12	8.51%
<u>Business Intelligence Analysts</u> ✨	8	5.67%
<u>Customer Service Representatives</u> ✨ 🌱	8	5.67%
<u>Computer Programmers</u>	7	4.96%

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Source: Individuals with active résumés in the workforce system.

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