LOUISIANA WORKFORCE COMMISSION
The Department of Labor

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Information Security Analysts

Louisiana

Summary of Job Duties

Information Security Analysts Video - 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.

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

Information Security Analysts Information security analysts plan and carry out security measures to protect an organizationâ€™s computer networks and systems.

Source: U.S. Department of Labor Bureau of Labor Statistics

Job Zone

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

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

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

Jobs Available

This section shows the number of job openings and green jobs advertised online in Louisiana for Information Security 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
Information Security Analysts	7	0
Computer and Mathematical Occupations	903	17

BRIGHT OUTLOOK NATIONALLY

Source: Online advertised jobs data

Monthly Job Count

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

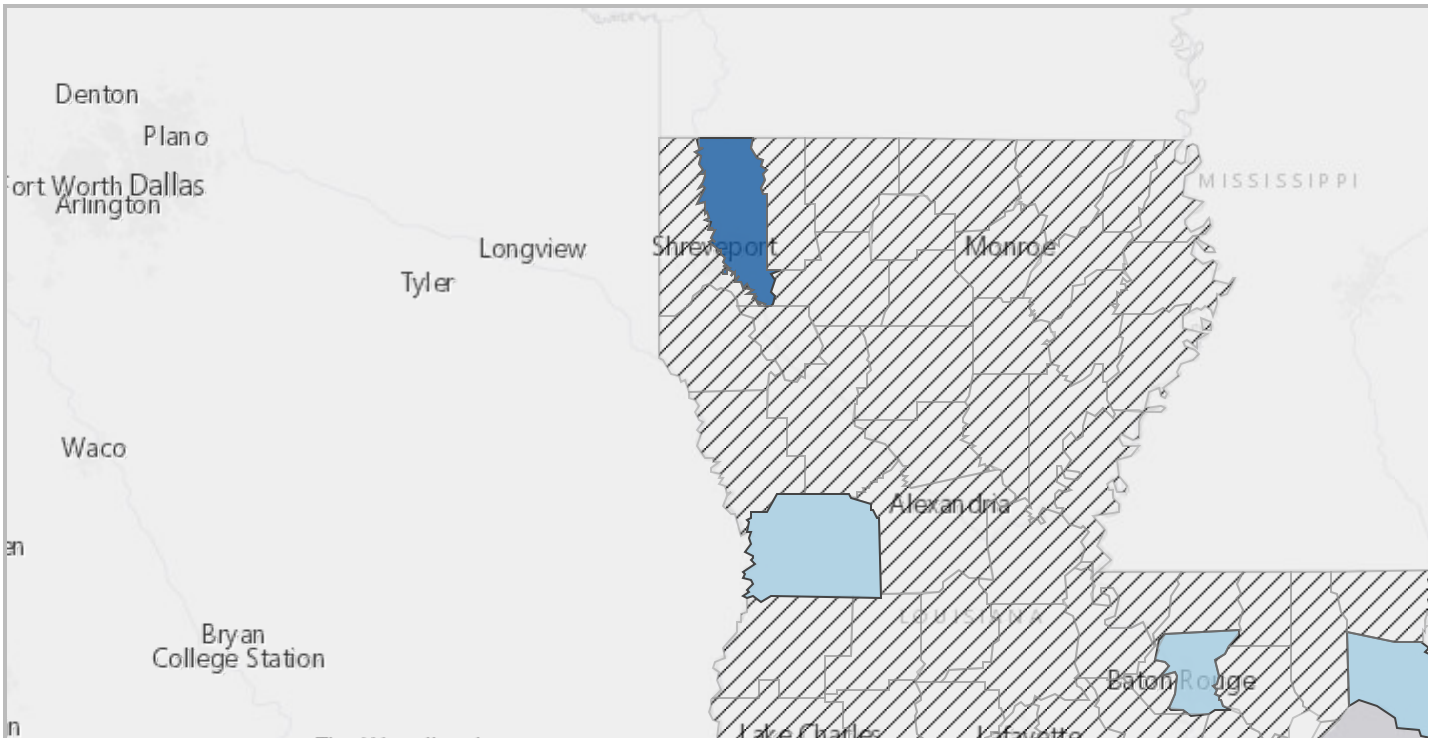
Occupation	Job Openings	Green Job Count
Information Security Analysts	31	0

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 Information Security Analysts in Louisiana by parishes on December 8, 2020 (Jobs De-duplication Level 2).



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 Information Security Analysts on December 8, 2020 (Jobs De-duplication Level 2).

Rank	Occupation	Median Wage	Job Openings	Green Job Count	*Related By
1	Computer Systems Engineers/Architects	$62,800	51	3	O*NET
2	Electrical Engineers	$91,002	32	3	O*NET
3	Product Safety Engineers	$85,523	18	3	O*NET
4	Database Administrators	$80,017	30	2	O*NET
5	Network and Computer Systems Administrators	$64,569	62	2	O*NET

Rank	Occupation	Median Wage	Job Openings	Green Job Count	*Related By
6	Computer User Support Specialists	$45,715	85	2	O*NET
7	Industrial Safety and Health Engineers	$85,523	4	2	O*NET
8	Occupational Health and Safety Specialists	$71,755	7	2	O*NET
9	Computer and Information Systems Managers	$104,877	12	1	O*NET
10	Computer Systems Analysts	$68,543	75	1	O*NET
11	Computer Programmers	$66,543	87	1	O*NET
12	Software Quality Assurance Engineers and Testers	$62,800	11	1	O*NET
13	Validation Engineers	$81,992	1	1	O*NET
14	Industrial Engineering Technicians	$82,034	9	1	O*NET
15	Claims Examiners, Property and Casualty Insurance	$67,332	11	0	O*NET
16	Logisticians	$72,442	10	0	O*NET
17	Logistics Analysts	$72,442	6	0	O*NET
18	Informatics Nurse Specialists	$68,543	3	0	O*NET
19	Information Security Analysts	N/A	7	0	N/A
20	Software Developers, Applications	$79,753	50	0	O*NET
21	Software Developers, Systems Software	$73,552	20	0	O*NET
22	Web Developers	$56,619	4	0	O*NET
23	Computer Network Architects	$73,217	6	0	O*NET
24	Petroleum Engineers	$128,991	1	0	O*NET
25	Technical Writers	$71,347	10	0	O*NET
26	Power Distributors and Dispatchers	$40,345	9	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 Information Security Analysts and for the related occupational group of Computer and Mathematical Occupations on December 8, 2020.

Occupation	Candidates
Information Security Analysts	37
Computer and Mathematical Occupations	2,259

BRIGHT OUTLOOK NATIONALLY

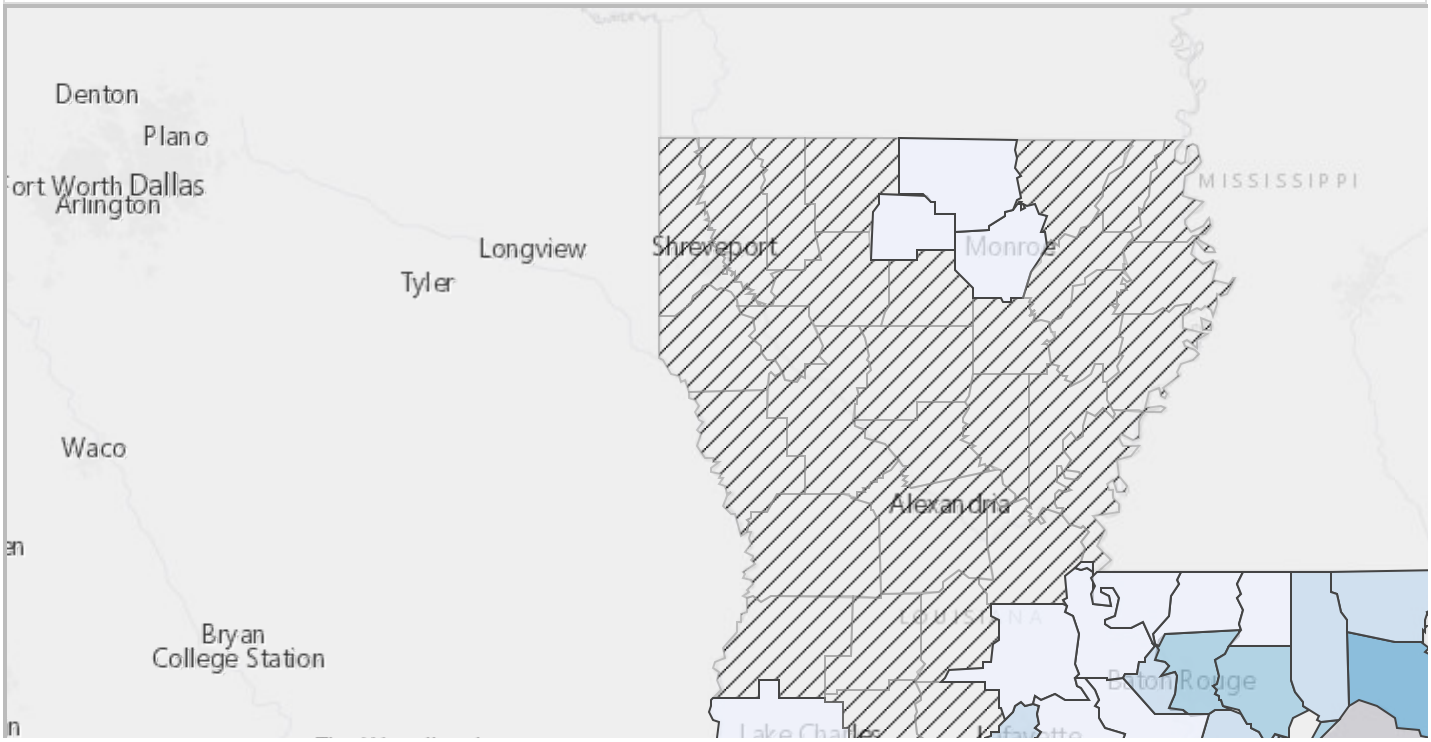
Source: Individuals with active résumés in the workforce system.

Candidate Area Distribution

This section shows the distribution of potential candidates in the workforce system for Information Security Analysts in Louisiana by parishes on December 8, 2020.

Rank	Area Name	Median Wage	Candidates
1	Orleans Parish	$72,516 state level wages	25
2	Jefferson Parish	$72,516 state level wages	21
3	St. Tammany Parish	$72,516 state level wages	17
4	East Baton Rouge Parish	$72,516 state level wages	15
5	St. John the Baptist Parish	$72,516 state level wages	15

Rank	Area Name	Median Wage	Candidates
6	Livingston Parish	$72,516 state level wages	14
7	St. Bernard Parish	$72,516 state level wages	14
8	St. Charles Parish	$72,516 state level wages	13
9	Tangipahoa Parish	$72,516 state level wages	13
10	Ascension Parish	$72,516 state level wages	12



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 Information Security Analysts on December 8, 2020.

Rank	Occupation	Median Wage	Candidates	*Related By
1	Computer User Support Specialists	$45,715	550	O*NET
2	Occupational Health and Safety Specialists	$71,755	414	O*NET
3	Computer and Information Systems Managers	$104,877	288	O*NET
4	Industrial Safety and Health Engineers	$85,523	171	O*NET
5	Network and Computer Systems Administrators	$64,569	160	O*NET
6	Computer Systems Analysts	$68,543	139	O*NET
7	Software Developers, Applications	$79,753	120	O*NET
8	Logisticians	$72,442	114	O*NET
9	Electrical Engineers	$91,002	111	O*NET
10	Industrial Engineering Technicians	$82,034	109	O*NET
11	Claims Examiners, Property and Casualty Insurance	$67,332	103	O*NET
12	Computer Programmers	$66,543	91	O*NET
13	Database Administrators	$80,017	91	O*NET
14	Petroleum Engineers	$128,991	79	O*NET
15	Logistics Analysts	$72,442	57	O*NET
16	Computer Hardware Engineers	$77,939	46	O*NET
17	Web Developers	$56,619	42	O*NET
18	Computer Network Architects	$73,217	42	O*NET
19	Information Security Analysts	N/A	37	N/A

Rank	Occupation	Median Wage	Candidates	*Related By
20	Software Quality Assurance Engineers and Testers	$62,800	37	O*NET
21	Software Developers, Systems Software	$73,552	32	O*NET
22	Technical Writers	$71,347	29	O*NET
23	Fraud Examiners, Investigators and Analysts	$55,490	16	O*NET
24	Computer Systems Engineers/Architects	$62,800	16	O*NET
25	Power Distributors and Dispatchers	$40,345	15	O*NET
26	Geospatial Information Scientists and Technologists	$62,800	7	O*NET
27	Informatics Nurse Specialists	$68,543	4	O*NET
28	Product Safety Engineers	$85,523	4	O*NET
29	Web Administrators	$62,800	3	O*NET
30	Validation Engineers	$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 Information Security 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
Information Security Analysts	7	0	37	5.29
Computer and Mathematical Occupations	903	17	2,259	2.50

BRIGHT OUTLOOK NATIONALLY

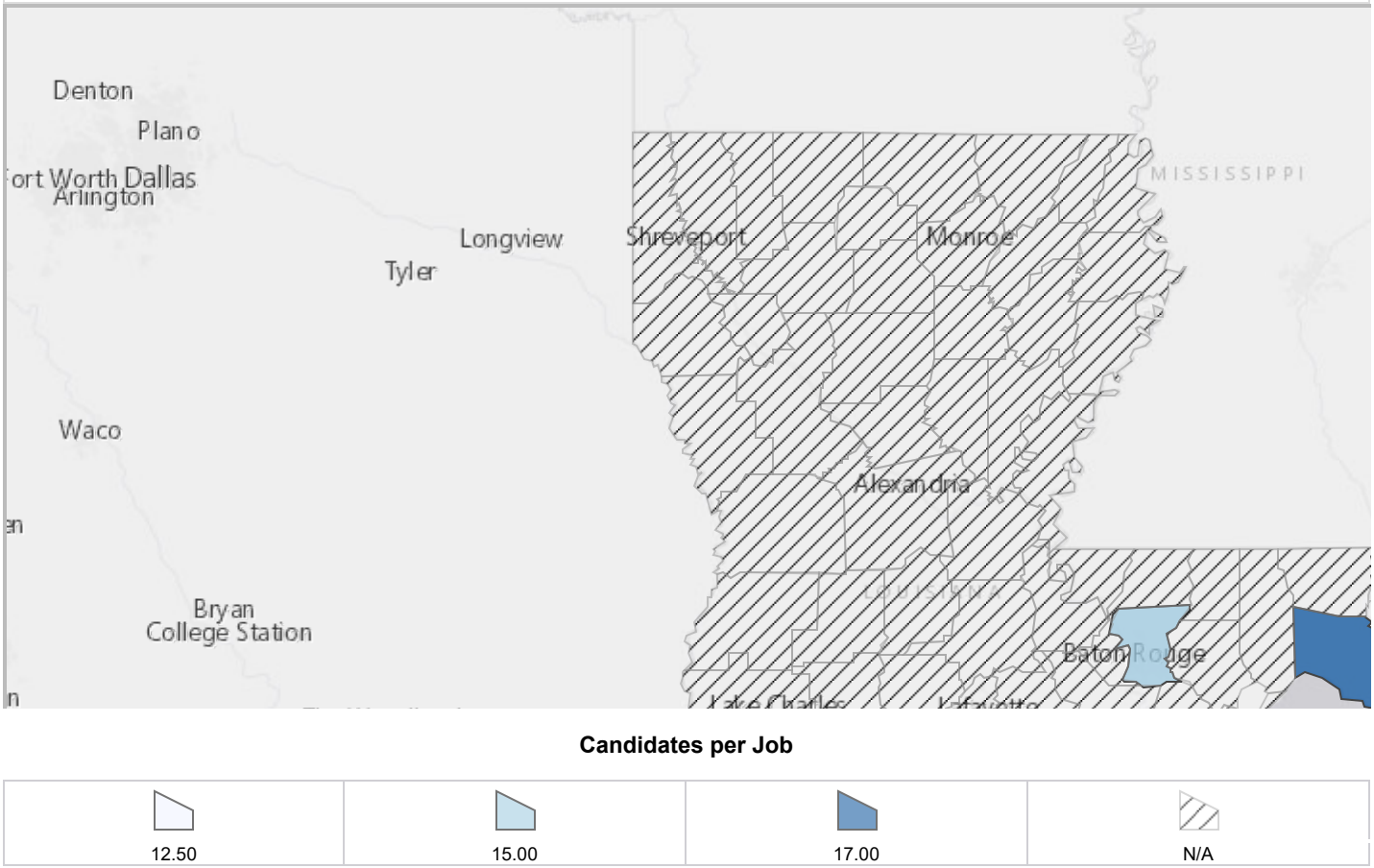
Job Source: Online advertised jobs data
Candidate Source: Individuals with active résumés in the workforce system.

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 Information Security 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	St. Tammany Parish	$72,516 state level wages	1	0	17	17.00
2	East Baton Rouge Parish	$72,516 state level wages	1	0	15	15.00
3	Orleans Parish	$72,516 state level wages	2	0	25	12.50
4	Ascension Parish	$72,516 state level wages	0	0	12	N/A
5	Assumption Parish	$72,516 state level wages	0	0	11	N/A
6	Bossier Parish	$72,516 state level wages	2	0	0	N/A
7	Calcasieu Parish	$72,516 state level wages	0	0	11	N/A
8	East Feliciana Parish	$72,516 state level wages	0	0	11	N/A
9	Iberia Parish	$72,516 state level wages	0	0	11	N/A

Rank	Area Name	Median Wage	Job Openings	Green Job Count	Candidates	Candidates per Job
10	Iberville Parish	$72,516 state level wages	0	0	11	N/A



Job Source: Online advertised jobs data
Candidate Source: Individuals with active résumés in the workforce system.
Wage Source: Labor Market Statistics, Occupational Employment Statistics Program
The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Data is from a 2018 survey.

National Supply and Demand Summary

Information Security Analysts
Employment of information security analysts is projected to grow 31 percent from 2019 to 2029, much faster than the average for all occupations.

Demand for information security analysts is expected to be very high. Cyberattacks have grown in frequency, and analysts will be needed to come up with innovative solutions to prevent hackers from

stealing critical information or creating problems for computer networks.

Banks and financial institutions, as well as other types of corporations, will need to increase their information security capabilities in the face of growing cybersecurity threats. In addition, as the healthcare industry expands its use of electronic medical records, ensuring patients' privacy and protecting personal data are becoming more important. More information security analysts are likely to be needed to create the safeguards that will satisfy patients' concerns.

Employment of information security analysts is projected to grow 56 percent in computer systems design and related services from 2019 to 2029. The increasing adoption of cloud services by small and medium-sized businesses and a rise in cybersecurity threats will create demand for managed security services providers in this industry.

Job Prospects

Job prospects for information security analysts should be good. Information security analysts with related work experience will have the best prospects. For example, an applicant with experience as a database administrator would have better prospects in database security than someone without that experience.

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 Information Security Analysts in Louisiana on December 8, 2020 (Jobs De-duplication Level 2).

Rank	Employer Name	Job Openings	Green Job Count
1	General Dynamics Information Technology, Inc.	2	0
2	Volunteers of America SELA	2	0
3	Domino's Pizza, Inc.	1	0
4	Globalstar, Inc	1	0
5	IDS International	1	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 Information Security 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	15
2	Work independently	Basic Skills	6
3	Attention to detail	Basic Skills	5
4	Risk assessments	Risk Analyst Skills	5
5	Positive attitude	Interpersonal Skills	5
6	Risk management	Risk Analyst Skills	4
7	Root cause analysis	Reliability Engineer Skills	4
8	Providing recommendations	Concierge Skills	4
9	Operations planning	Operations Manager Skills	3
10	Good attendance	Basic Skills	3

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 Information Security 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	6
2	Tenable Nessus	Transaction Security and Virus Protection Software	5
3	Microsoft Windows	Operating System Software	5
4	Airborne collision avoidance systems (ACAS)	Aircraft Warning Systems	4
5	Microsoft PowerPoint	Presentation Software	4
6	Laptop Computer	Notebook Computers	3
7	Geostatistics software GS+	Analytical or Scientific Software	3
8	Linux software	Operating System Software	2
9	Alarms	Alarm Systems	2
10	Keyboard	Keyboards	2

Source: Online advertised jobs data

Typical Job Skills

This section shows the job skills that are related to Information Security Analysts.

Rank	Typical Job Skills	Typical Skill Category
1	Develop computer or information security policies or procedures	Mental Processes
2	Update knowledge about emerging industry or technology trends	Mental Processes
3	Implement security measures for computer or information systems	Work Output
4	Test computer system operations to ensure proper functioning	Information Input
5	Collaborate with others to resolve information technology issues	Interacting With Others
6	Troubleshoot issues with computer applications or systems	Work Output
7	Document operational procedures	Work Output
8	Monitor the security of digital information	Information Input
9	Coordinate project activities with other personnel or departments	Interacting With Others
10	Train others in computer interface or software use	Interacting With Others

Personal Skills

This section shows the personal skills that are most useful for Information Security 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)
Reading Comprehension	Understanding written sentences and paragraphs in work related documents.	75
Critical Thinking	Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.	72

Personal Skill	Skill Description	Rank by Importance (Out of 100)
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.	69
Complex Problem Solving	Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.	69
Speaking	Talking to others to convey information effectively.	66
Writing	Communicating effectively in writing as appropriate for the needs of the audience.	63
Monitoring	Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.	60
Judgment and Decision Making	Considering the relative costs and benefits of potential actions to choose the most appropriate one.	60
Systems Analysis	Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.	60
Active Learning	Understanding the implications of new information for both current and future problem-solving and decision-making.	56
Time Management	Managing one's own time and the time of others.	53
Systems Evaluation	Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.	50
Quality Control Analysis	Conducting tests and inspections of products, services, or processes to evaluate quality or performance.	50
Operation Monitoring	Watching gauges, dials, or other indicators to make sure a machine is working properly.	50
Coordination	Adjusting actions in relation to others' actions.	50
Instructing	Teaching others how to do something.	47

Personal Skill	Skill Description	Rank by Importance (Out of 100)
Service Orientation	Actively looking for ways to help people.	47
Learning Strategies	Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.	47
Management of Personnel Resources	Motivating, developing, and directing people as they work, identifying the best people for the job.	47
Social Perceptiveness	Being aware of others' reactions and understanding why they react as they do.	44
Persuasion	Persuading others to change their minds or behavior.	41
Negotiation	Bringing others together and trying to reconcile differences.	41
Programming	Writing computer programs for various purposes.	41
Operations Analysis	Analyzing needs and product requirements to create a design.	38
Mathematics	Using mathematics to solve problems.	31
Technology Design	Generating or adapting equipment and technology to serve user needs.	28
Troubleshooting	Determining causes of operating errors and deciding what to do about it.	28
Science	Using scientific rules and methods to solve problems.	22
Equipment Selection	Determining the kind of tools and equipment needed to do a job.	19
Operation and Control	Controlling operations of equipment or systems.	19
Management of Financial Resources	Determining how money will be spent to get the work done, and accounting for these expenditures.	19
Management of Material Resources	Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to do certain work.	19

Personal Skill	Skill Description	Rank by Importance (Out of 100)
Equipment Maintenance	Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.	16
Repairing	Repairing machines or systems using the needed tools.	16
Installation	Installing equipment, machines, wiring, or programs to meet specifications.	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

Information Security Analysts There is no data available for Information Security Analysts.

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 Information Security Analysts.

Rank	Required Level of Education	Percentage of Respondents
1	Bachelor's Degree	52.64%
2	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.	22.52%
3	Associate's Degree (or other 2-year degree)	12.87%
4	Post-Secondary Certificate - awarded for training completed after high school (for example, in agriculture or natural resources, computer services, personal or culinary services, engineering technologies, healthcare, construction trades, mechanic and repair technologies, or precision production)	7.16%
5	Master's Degree	2.80%
6	Some College Courses	2.01%

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 Information Security Analysts.

Rank	On The Job Training	Percentage of Respondents
1	Over 6 months, up to and including 1 year	27.36%
2	Over 1 month, up to and including 3 months	23.40%
3	Over 3 months, up to and including 6 months	13.39%
4	None or short demonstration	12.73%
5	Over 1 year, up to and including 2 years	7.05%
6	Over 10 years	6.60%
7	Over 4 years, up to and including 10 years	5.82%
8	Anything beyond short demonstration, up to and including 1 month	3.66%

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 Information Security Analysts.

Rank	On-Site or In-Plant Training	Percentage of Respondents
1	None	22.65%
2	Over 3 months, up to and including 6 months	17.58%
3	Over 1 month, up to and including 3 months	14.96%
4	Over 6 months, up to and including 1 year	13.98%
5	Up to and including 1 month	12.10%
6	Over 4 years, up to and including 10 years	11.66%
7	Over 10 years	2.80%
8	Over 1 year, up to and including 2 years	2.27%

Rank	On-Site or In-Plant Training	Percentage of Respondents
9	Over 2 years, up to and including 4 years	2.01%

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 Information Security Analysts in Louisiana on December 8, 2020. There were 5 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	Less than High School	0	N/A	0	N/A	1	2.70%
2	High School Diploma or Equivalent	1	14.29%	0	0.00%	5	13.51%
3	1 Year of College or a Technical or Vocational School	0	N/A	0	N/A	1	2.70%
4	2 Years of College or a Technical or Vocational School	0	N/A	0	N/A	8	21.62%
5	3 Years of College or a Technical or Vocational School	0	N/A	0	N/A	4	10.81%
6	Vocational School Certificate	0	N/A	0	N/A	2	5.41%

Rank	Education Level	Job Openings	Percentage of Job Openings	Green Job Count	Percentage of Green Jobs	Potential Candidates	Percentage of Potential Candidates
7	Associate's Degree	0	N/A	0	N/A	5	13.51%
8	Bachelor's Degree	1	14.29%	0	0.00%	8	21.62%
9	Master's Degree	0	N/A	0	N/A	3	8.11%
10	Not Specified	5	71.43%	0	0.00%	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 Information Security Analysts in Louisiana.

Provider Name	Program Name	Location	Tuition	Length	WIOA Eligible
Baton Rouge Community College	Certified Ethical Hacker (Voucher Included) An industry-recognized certificate or certification	Baton Rouge, LA	$2,895	100 Hours	✓
Baton Rouge Community College	Certified Ethical Hacker (Voucher Included) An industry-recognized certificate or certification	Baton Rouge, LA	$2,895	100 Hours	✓
Baton Rouge Community College	Certified Ethical Hacker (Voucher Included) An industry-recognized certificate or certification	New Roads, LA	$2,895	100 Hours	✓
Baton Rouge Community College	Certified Ethical Hacker (Voucher Included) An industry-recognized certificate or certification	Baton Rouge, LA	$2,895	100 Hours	✓

Provider Name	Program Name	Location	Tuition	Length	WIOA Eligible
Baton Rouge Community College	Certified Ethical Hacker (Voucher Included) An industry-recognized certificate or certification	Central, LA	$2,895	100 Hours	✓
Baton Rouge Community College	Certified Ethical Hacker (Voucher Included) An industry-recognized certificate or certification	Jackson, LA	$2,895	100 Hours	✓
Baton Rouge Community College	Certified Ethical Hacker (Voucher Included) An industry-recognized certificate or certification	Port Allen, LA	$2,895	100 Hours	✓
Baton Rouge Community College	Certified Ethical Hacker (Voucher Included) An industry-recognized certificate or certification	Baton Rouge, LA	$2,895	100 Hours	✓
Baton Rouge Community College	Certified Information Security Manager (CISM) (Voucher Included) An industry-recognized certificate or certification	Baton Rouge, LA	$1,395	75 Hours	✓
Baton Rouge Community College	Certified Information Security Manager (CISM) (Voucher Included) An industry-recognized certificate or certification	Baton Rouge, LA	$1,395	75 Hours	✓

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 Information Security Analysts in Louisiana in November, 2020. (Jobs De-duplication Level 1)

Rank	Advertised Certification Group	Advertised Certification Sub-Category	Job Opening Match Count
1	$(ISC)^2$ Certifications	Information and Cyber Security	6

Rank	Advertised Certification Group	Advertised Certification Sub-Category	Job Opening Match Count
2	CompTIA Certifications	Information Technology - All Other	2
3	Information Systems Audit and Control Association (ISACA)	Information and Cyber Security	2
4	Security Professional Education Development (SPeD) Certifications	Information and Cyber Security	1
5	Check Point Certifications	Information and Cyber Security	1
6	Mile2 Cyber Security Certifications	Information and Cyber Security	1
7	Disaster Recovery Institute (DRI) International Certifications	Computer Systems	1

Source: Online advertised jobs data

Training Program Completers

There is no data available for Information Security Analysts in Louisiana.

National Education, Training, Licensing and Qualifications

Information Security Analysts

Most information security analyst positions require a bachelor's degree in a computer-related field. Employers usually prefer analysts to have experience in a related occupation.

Education

Information security analysts usually need at least a bachelor's degree in computer science, information assurance, programming, or a related field.

Some employers prefer applicants who have a Master of Business Administration (MBA) in information systems. Programs offering the MBA in information systems generally require 2 years of study beyond the undergraduate level and include both business and computer-related courses.

Work Experience in a Related Occupation

Information security analysts generally need to have previous experience in a related occupation. Many analysts have experience in an information technology department, often as a network or computer systems administrator

. Some employers look for people who have already worked in fields related to the one in which they are hiring. For example, if the job opening is in database security, they may look for a database administrator. If they are hiring in systems security, a computer systems analyst may be an ideal candidate.

Licenses, Certifications, and Registrations

There are a number of information security certifications available, and many employers prefer candidates to have certification, which validates the knowledge and best practices required from information security analysts. Some are general information security certificates, such as the Certified Information Systems Security Professional
(CISSP), while others have a more narrow focus, such as penetration testing or systems auditing.

Advancement

Information security analysts can advance to become chief security officers or another type of computer and information systems manager

.

Important Qualities

Analytical skills
.
Information security analysts must carefully study computer systems and networks and assess risks to determine how security policies and protocols can be improved.

Detail oriented
.
Because cyberattacks can be difficult to detect, information security analysts must pay careful attention to computer systems and watch for minor changes in performance.

Ingenuity.

Information security analysts must anticipate information security risks and implement new ways to protect their organizations' computer systems and networks.

Problem-solving skills
.
Information security analysts must respond to security alerts and uncover and fix flaws in computer systems and networks.

Source: U.S. Department of Labor Bureau of Labor Statistics

Typical Work Experience Requirements

Information Security 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 Information Security Analysts.

Rank	Related Work Experience	Percentage of Respondents
1	Over 2 years, up to and including 4 years	24.07%
2	Over 4 years, up to and including 6 years	21.46%
3	Over 8 years, up to and including 10 years	17.70%
4	Over 10 years	13.07%
5	Over 6 years, up to and including 8 years	10.49%
6	Over 6 months, up to and including 1 year	9.83%
7	Over 1 year, up to and including 2 years	2.24%
8	None	1.13%

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.

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 Information Security Analysts in Louisiana on December 8, 2020. There were 5 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	5	71.43%	0	0.00%	0	N/A
2	Less than 1 year	0	N/A	0	N/A	2	5.41%

Rank	Experience	Job Openings	Percentage of Job Openings	Green Job Count	Percentage of Green Jobs	Potential Candidates	Percentage of Potential Candidates
3	1 Year to 2 Years	0	N/A	0	N/A	1	2.70%
4	2 Years to 5 Years	2	28.57%	0	0.00%	2	5.41%
5	5 Years to 10 Years	0	N/A	0	N/A	3	8.11%
6	More than 10 Years	0	N/A	0	N/A	29	78.38%

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 Information Security 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 Information Security Analysts in 2018.

Rate Type / Statistical Type	Q1	Entry level	Median	Experienced	Q3
Annual wage or salary	$57,842	$50,183	$72,516	$86,432	$88,755
Hourly wage	$27.81	$24.13	$34.86	$41.55	$42.67

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 7 job openings advertised online for Information Security Analysts in Louisiana that posted a salary on December 8, 2020.

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

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

Desired Salary of Available Candidates

This section shows the desired salary of potential candidates in the workforce system that are looking for jobs as Information Security Analysts in Louisiana on December 8, 2020.

Rank	Desired Salary	Potential Candidates	Percentage of Potential Candidates
1	Not Specified	13	36.11%
2	$20,000 - $34,999	8	22.22%
3	$35,000 - $49,999	7	19.44%
4	$50,000 - $64,999	6	16.67%
5	$65,000 - $79,999	2	5.56%

Source: Individuals with active résumés in the workforce system.

Wage Rates Area Distribution

There is no data available for Information Security 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 Information Security Analysts for Louisiana.

Rank	Occupation	Median	*Related By
1	Petroleum Engineers	$128,991	O*NET
2	Computer and Information Systems Managers	$104,877	O*NET
3	Electrical Engineers	$91,002	O*NET
4	Industrial Safety and Health Engineers	$85,523	O*NET
5	Product Safety Engineers	$85,523	O*NET

Rank	Occupation	Median	*Related By
6	Industrial Engineering Technicians	$82,034	O*NET
7	Validation Engineers	$81,992	O*NET
8	Database Administrators	$80,017	O*NET
9	Software Developers, Applications	$79,753	O*NET
10	Computer Hardware Engineers	$77,939	O*NET
11	Software Developers, Systems Software	$73,552	O*NET
12	Computer Network Architects	$73,217	O*NET
13	Logisticians	$72,442	O*NET
14	Logistics Analysts	$72,442	O*NET
15	Occupational Health and Safety Specialists	$71,755	O*NET
16	Technical Writers	$71,347	O*NET
17	Computer Systems Analysts	$68,543	O*NET
18	Informatics Nurse Specialists	$68,543	O*NET
19	Claims Examiners, Property and Casualty Insurance	$67,332	O*NET
20	Computer Programmers	$66,543	O*NET
21	Network and Computer Systems Administrators	$64,569	O*NET
22	Software Quality Assurance Engineers and Testers	$62,800	O*NET
23	Computer Systems Engineers/Architects	$62,800	O*NET
24	Web Administrators	$62,800	O*NET
25	Geospatial Information Scientists and Technologists	$62,800	O*NET
26	Web Developers	$56,619	O*NET
27	Fraud Examiners, Investigators and Analysts	$55,490	O*NET
28	Computer User Support Specialists	$45,715	O*NET
29	Power Distributors and Dispatchers	$40,345	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 Information Security Analysts in Louisiana.

National Earnings Data Summary

Information Security Analysts
The median annual wage for information security analysts was $99,730 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 $57,810, and the highest 10 percent earned more than $158,860.

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

Finance and insurance	$103,510
Computer systems design and related services	101,980
Information	100,560
Management of companies and enterprises	97,440
Administrative and support services	96,190

Most information security analysts work full time. Information security analysts sometimes have to be on call outside of normal business hours in case of an emergency. 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 Information Security Analysts in Louisiana from 2016-2026.

Occupation	2016 Estimated Employment	2026 Projected Employment	Total 2016-2026 Employment Change	2016-2026 Annual Avg. Percent Change
Information Security Analysts	757	1,138	381	4.16%
Total All	2,034,986	2,203,144	168,158	0.80%

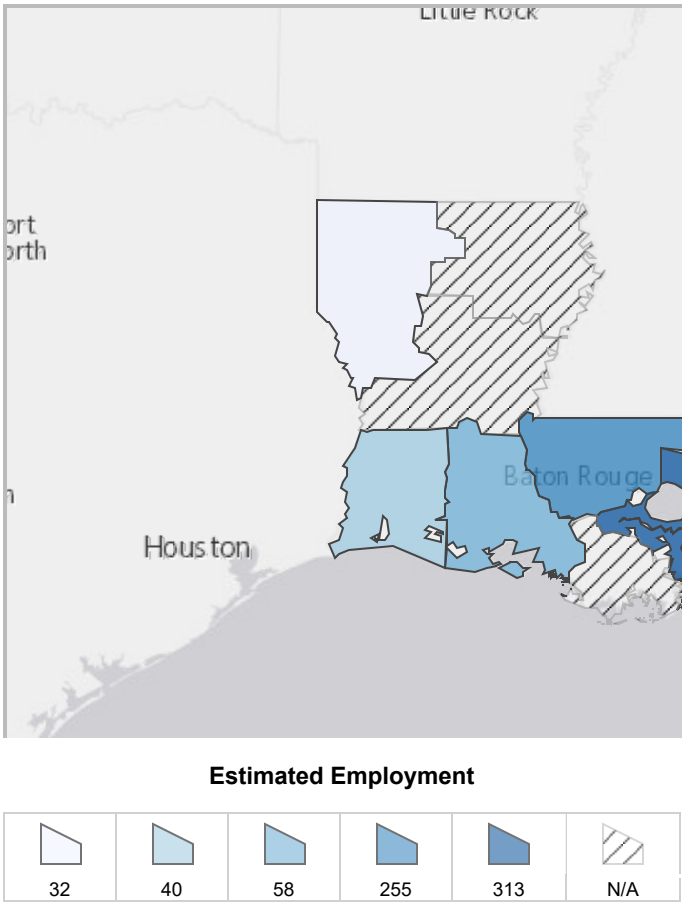
Source: Occupational Employment Projections

Employment Data Area Distribution

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

Rank	Area	2016 Estimated Employment
1	1st Regional Labor Market Area, New Orleans	313
2	2nd Regional Labor Market Area, Baton Rouge	255
3	4th Regional Labor Market Area, Lafayette	58
4	5th Regional Labor Market Area, Lake Charles	40
5	7th Regional Labor Market Area, Shreveport	32
*	3rd Regional Labor Market Area, Houma	Confidential
*	6th Regional Labor Market Area, Alexandria	Confidential
*	8th Regional Labor Market Area, Monroe	Confidential

* Rank is suppressed for confidential data.



Source: Labor Market Statistics, Occupational Employment Projections Program

Employment Data in Related Occupations

This section shows the 2016 Estimated Employment in Louisiana for occupations related to Information Security Analysts.

Rank	Occupation	2016 Estimated Employment	*Related By
1	Validation Engineers	3,698	O*NET

Rank	Occupation	2016 Estimated Employment	*Related By
2	Computer User Support Specialists	3,524	O*NET
3	Network and Computer Systems Administrators	2,953	O*NET
4	Claims Examiners, Property and Casualty Insurance	2,910	O*NET
5	Computer Systems Engineers/Architects	2,873	O*NET
6	Geospatial Information Scientists and Technologists	2,873	O*NET
7	Software Quality Assurance Engineers and Testers	2,873	O*NET
8	Web Administrators	2,873	O*NET
9	Computer Programmers	2,505	O*NET
10	Computer Systems Analysts	1,971	O*NET
11	Informatics Nurse Specialists	1,971	O*NET
12	Computer and Information Systems Managers	1,930	O*NET
13	Petroleum Engineers	1,645	O*NET
14	Electrical Engineers	1,557	O*NET
15	Software Developers, Applications	1,411	O*NET
16	Occupational Health and Safety Specialists	1,317	O*NET
17	Software Developers, Systems Software	1,203	O*NET
18	Fraud Examiners, Investigators and Analysts	1,153	O*NET
19	Logisticians	795	O*NET
20	Logistics Analysts	795	O*NET
21	Industrial Safety and Health Engineers	646	O*NET
22	Product Safety Engineers	646	O*NET
23	Web Developers	560	O*NET
24	Database Administrators	508	O*NET
25	Industrial Engineering Technicians	404	O*NET
26	Computer Network Architects	246	O*NET
27	Technical Writers	223	O*NET
28	Computer Hardware Engineers	206	O*NET
*	Power Distributors and Dispatchers	Confidential	O*NET

* 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 Information Security Analysts in Louisiana from 2016 to 2026.

Occupation	Total Annual Average Openings	Annual Average Openings Due to Growth	Annual Average Openings Due to Replacement
Information Security 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 Information Security Analysts in Louisiana by regional labor market area from 2016 to 2026.

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

There is no total annual average openings data available for Information Security Analysts in Louisiana.

* Rank is suppressed for confidential data.

Source: Labor Market Statistics, Occupational Employment Projections Program

Projected Annual Openings in Related Occupations

This section shows the projected total annual average openings in Louisiana for occupations related to Information Security Analysts from 2016 to 2026.

Rank	Occupation	Total Annual Average Openings	*Related By
1	Claims Examiners, Property and Casualty Insurance	N/A	O*NET
2	Computer and Information Systems Managers	N/A	O*NET
3	Computer Hardware Engineers	N/A	O*NET
4	Computer Network Architects	N/A	O*NET

Rank	Occupation	Total Annual Average Openings	*Related By
5	Computer Programmers	N/A	O*NET
6	Computer Systems Analysts	N/A	O*NET
7	Computer Systems Engineers/Architects	N/A	O*NET
8	Computer User Support Specialists	N/A	O*NET
9	Database Administrators	N/A	O*NET
10	Electrical Engineers	N/A	O*NET
11	Fraud Examiners, Investigators and Analysts	N/A	O*NET
12	Geospatial Information Scientists and Technologists	N/A	O*NET
13	Industrial Engineering Technicians	N/A	O*NET
14	Industrial Safety and Health Engineers	N/A	O*NET
15	Informatics Nurse Specialists	N/A	O*NET
16	Logisticians	N/A	O*NET
17	Logistics Analysts	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	Petroleum Engineers	N/A	O*NET
21	Product Safety 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	Technical Writers	N/A	O*NET
26	Validation Engineers	N/A	O*NET
27	Web Administrators	N/A	O*NET
28	Web Developers	N/A	O*NET
*	Power Distributors and Dispatchers	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 Information Security Analysts in Louisiana in 2016.

Rank	Industry Title	Estimated Employment	Percent of Total Employment
1	Professional, Scientific, and Technical Services	321	42.40%
2	Utilities	66	8.72%
3	Management of Companies and Enterprises	51	6.74%
4	Educational Services	48	6.34%
*	Self-Employed and Unpaid Family Workers, Primary Job	Confidential	Confidential
*	Oil and Gas Extraction	Confidential	Confidential
*	Heavy and Civil Engineering Construction	Confidential	Confidential
*	Chemical Manufacturing	Confidential	Confidential
*	Computer and Electronic Product Manufacturing	Confidential	Confidential
*	Transportation Equipment Manufacturing	Confidential	Confidential

* Rank is suppressed for confidential data.

Source: Louisiana Workforce Commission, Occupational Projections Program

Work Activities

This section shows the most common work activities required by Information Security 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)
Interacting With Computers	Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.	93
Getting Information	Observing, receiving, and otherwise obtaining information from all relevant sources.	88

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
Identifying Objects, Actions, and Events	Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.	82
Evaluating Information to Determine Compliance with Standards	Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.	78
Processing Information	Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.	77
Analyzing Data or Information	Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.	77
Updating and Using Relevant Knowledge	Keeping up-to-date technically and applying new knowledge to your job.	76
Documenting/Recording Information	Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.	76
Communicating with Supervisors, Peers, or Subordinates	Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.	75
Making Decisions and Solving Problems	Analyzing information and evaluating results to choose the best solution and solve problems.	74
Monitor Processes, Materials, or Surroundings	Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.	73
Interpreting the Meaning of Information for Others	Translating or explaining what information means and how it can be used.	69
Organizing, Planning, and Prioritizing Work	Developing specific goals and plans to prioritize, organize, and accomplish your work.	67

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
Thinking Creatively	Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.	64
Establishing and Maintaining Interpersonal Relationships	Developing constructive and cooperative working relationships with others, and maintaining them over time.	61
Developing Objectives and Strategies	Establishing long-range objectives and specifying the strategies and actions to achieve them.	57
Performing Administrative Activities	Performing day-to-day administrative tasks such as maintaining information files and processing paperwork.	57
Estimating the Quantifiable Characteristics of Products, Events, or Information	Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.	55
Communicating with Persons Outside Organization	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.	53
Judging the Qualities of Things, Services, or People	Assessing the value, importance, or quality of things or people.	52
Provide Consultation and Advice to Others	Providing guidance and expert advice to management or other groups on technical, systems-, or process-related topics.	50
Coordinating the Work and Activities of Others	Getting members of a group to work together to accomplish tasks.	46
Developing and Building Teams	Encouraging and building mutual trust, respect, and cooperation among team members.	46

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
Training and Teaching Others	Identifying the educational needs of others, developing formal educational or training programs or classes, and teaching or instructing others.	43
Coaching and Developing Others	Identifying the developmental needs of others and coaching, mentoring, or otherwise helping others to improve their knowledge or skills.	42
Scheduling Work and Activities	Scheduling events, programs, and activities, as well as the work of others.	41
Resolving Conflicts and Negotiating with Others	Handling complaints, settling disputes, and resolving grievances and conflicts, or otherwise negotiating with others.	40
Monitoring and Controlling Resources	Monitoring and controlling resources and overseeing the spending of money.	39
Repairing and Maintaining Electronic Equipment	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.	38
Inspecting Equipment, Structures, or Material	Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.	36
Guiding, Directing, and Motivating Subordinates	Providing guidance and direction to subordinates, including setting performance standards and monitoring performance.	36
Selling or Influencing Others	Convincing others to buy merchandise/goods or to otherwise change their minds or actions.	33
Staffing Organizational Units	Recruiting, interviewing, selecting, hiring, and promoting employees in an organization.	32

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment	Providing documentation, detailed instructions, drawings, or specifications to tell others about how devices, parts, equipment, or structures are to be fabricated, constructed, assembled, modified, maintained, or used.	24
Controlling Machines and Processes	Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).	23
Performing for or Working Directly with the Public	Performing for people or dealing directly with the public. This includes serving customers in restaurants and stores, and receiving clients or guests.	19

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

Tasks

This section shows the most common tasks required by Information Security 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)
Develop plans to safeguard computer files against accidental or unauthorized modification, destruction, or disclosure and to meet emergency data processing needs.	Core	85
Monitor current reports of computer viruses to determine when to update virus protection systems.	Core	81
Encrypt data transmissions and erect firewalls to conceal confidential information as it is being transmitted and to keep out tainted digital transfers.	Core	80
Perform risk assessments and execute tests of data processing system to ensure functioning of data processing activities and security measures.	Core	78
Modify computer security files to incorporate new software, correct errors, or change individual access status.	Core	78

Tasks	Task Description	Rank by Importance (Out of 100)
Review violations of computer security procedures and discuss procedures with violators to ensure violations are not repeated.	Core	76
Confer with users to discuss issues such as computer data access needs, security violations, and programming changes.	Core	74
Document computer security and emergency measures policies, procedures, and tests.	Core	74
Monitor use of data files and regulate access to safeguard information in computer files.	Core	72
Coordinate implementation of computer system plan with establishment personnel and outside vendors.	Core	72
Train users and promote security awareness to ensure system security and to improve server and network efficiency.	Core	70
Maintain permanent fleet cryptologic and carry-on direct support systems required in special land, sea surface and subsurface operations.	Supplemental	76

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

Information Security Analysts

Information security analysts held about 131,000 jobs in 2019. The largest employers of information security analysts were as follows:

Computer systems design and related services	26%
Finance and insurance	18
Management of companies and enterprises	9
Information	8
Administrative and support services	6

Many information security analysts work with other members of an information technology department, such as
network administrators

or
computer systems analysts

.

Work Schedules

Most information security analysts work full time. Information security analysts sometimes have to be on call outside of normal business hours in case of an emergency. 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 Information Security 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?	99
Indoors, Environmentally Controlled	How often does this job require working indoors in environmentally controlled conditions?	96
Telephone	How often do you have telephone conversations in 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?	87
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?	83
Spend Time Sitting	How much does this job require sitting?	81
Work With Work Group or Team	How important is it to work with others in a group or team in this job?	80
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?	77
Importance of Being Exact or Accurate	How important is being very exact or highly accurate in performing this job?	77
Freedom to Make Decisions	How much decision making freedom, without supervision, does the job offer?	75

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
Impact of Decisions on Co-workers or Company Results	What results do your decisions usually have on other people or the image or reputation or financial resources of your employer?	66
Time Pressure	How often does this job require the worker to meet strict deadlines?	65
Consequence of Error	How serious would the result usually be if the worker made a mistake that was not readily correctable?	61
Coordinate or Lead Others	How important is it to coordinate or lead others in accomplishing work activities in this job?	61
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?	58
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?	55
Level of Competition	To what extent does this job require the worker to compete or to be aware of competitive pressures?	55
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?	52
Physical Proximity	To what extent does this job require the worker to perform job tasks in close physical proximity to other people?	52
Responsibility for Outcomes and Results	How responsible is the worker for work outcomes and results of other workers?	51
Letters and Memos	How often does the job require written letters and memos?	50
Frequency of Conflict Situations	How often are there conflict situations the employee has to face in this job?	48

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
Deal With External Customers	How important is it to work with external customers or the public in this job?	47
Spend Time Making Repetitive Motions	How much does this job require making repetitive motions?	45
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?	41
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?	37
Spend Time Standing	How much does this job require standing?	33
Responsible for Others' Health and Safety	How much responsibility is there for the health and safety of others in this job?	29
Public Speaking	How often do you have to perform public speaking in this job?	27
Degree of Automation	How automated is the job?	26
Spend Time Walking and Running	How much does this job require walking and running?	25
Extremely Bright or Inadequate Lighting	How often does this job require working in extremely bright or inadequate lighting conditions?	22
In an Enclosed Vehicle or Equipment	How often does this job require working in a closed vehicle or equipment (e.g., car)?	20
Very Hot or Cold Temperatures	How often does this job require working in very hot (above 90 F degrees) or very cold (below 32 F degrees) temperatures?	20

Work Values and Needs

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

Work Value	Work Value Description	Rank By Extent (Out of 100)
Working Conditions	Occupations that satisfy this work value offer job security and good working conditions. Corresponding needs are Activity, Compensation, Independence, Security, Variety and Working Conditions.	78
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.	72
Independence	Occupations that satisfy this work value allow employees to work on their own and make decisions. Corresponding needs are Creativity, Responsibility and Autonomy.	72
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.	61
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.	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.	56

Typical Tools

This section shows common tools used by Information Security Analysts.

Detailed Tool	Tool Group
Desktop computers	Desktop computers
Mainframe computers	Mainframe computers

Detailed Tool	Tool Group
Local area network LAN analyzers	Network analyzers
Network analyzers	Network analyzers
Notebook computers	Notebook computers
Protocol analyzers	Protocol analyzers

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 Information Security Analysts.

Detailed Technology	Technology Group
Access management software	Access software
Citrix	Access software
IBM Tivoli Access Management TAM	Access software
Cisco Systems CiscoWorks	Administration software
SAS	Analytical or scientific software
The MathWorks MATLAB	Analytical or scientific software
Docker	Application server software
GitHub	Application server software
Oracle WebLogic Server	Application server software
Red Hat WildFly	Application server software
Diameter	Authentication server software
IBM Tivoli Identity Management TIM	Authentication server software
Password management software	Authentication server software
Remote authentication dial-in user service RADIUS software	Authentication server software
Backup and archival software	Backup or archival software
System and data disaster recovery software	Backup or archival software
Veritas NetBackup	Backup or archival software
IBM Cognos Impromptu	Business intelligence and data analysis software
MicroStrategy	Business intelligence and data analysis software

Detailed Technology	Technology Group
Oracle Business Intelligence Enterprise Edition	Business intelligence and data analysis software
Qlik Tech QlikView	Business intelligence and data analysis software
Tableau	Business intelligence and data analysis software
IBM Domino	Communications server software
Automated installation software	Configuration management software
Chef	Configuration management software
Patch and update management software	Configuration management software
Perforce Helix software	Configuration management software
Puppet	Configuration management software
VMWare	Configuration management software
Atlassian JIRA	Content workflow software
Salesforce	Customer relationship management CRM software
Apache Cassandra	Data base management system software
Apache Hadoop	Data base management system software
Apache Hive	Data base management system software
Apache Pig	Data base management system software
Apache Solr	Data base management system software
Elasticsearch	Data base management system software
MongoDB	Data base management system software
MySQL	Data base management system software
NoSQL	Data base management system software
Oracle PL/SQL	Data base management system software
Relational database management software	Data base management system software
Teradata Database	Data base management system software
Microsoft SQL Server Reporting Services	Data base reporting software
SAP Crystal Reports	Data base reporting software
Amazon Elastic Compute Cloud EC2	Data base user interface and query software
Amazon Redshift	Data base user interface and query software
Amazon Web Services AWS software	Data base user interface and query software
Blackboard	Data base user interface and query software

Detailed Technology	Technology Group
Data entry software	Data base user interface and query software
Microsoft Access	Data base user interface and query software
Microsoft SQL Server	Data base user interface and query software
Oracle JDBC	Data base user interface and query software
Oracle software	Data base user interface and query software
Structured query language SQL	Data base user interface and query software
Secure shell SSH software	Desktop communications software
Adobe Systems Adobe ActionScript	Development environment software
Apache Ant	Development environment software
Apache Kafka	Development environment software
Apache Maven	Development environment software
C	Development environment software
Common business oriented language COBOL	Development environment software
Eclipse IDE	Development environment software
Go	Development environment software
Integrated development environment IDE software	Development environment software
Microsoft .NET Framework	Development environment software
Microsoft Azure	Development environment software
Microsoft PowerShell	Development environment software
Microsoft Visual Basic	Development environment software
Microsoft Visual Basic for Applications VBA	Development environment software
Microsoft Visual Basic Scripting Edition VBScript	Development environment software
Microsoft Visual Studio	Development environment software
National Instruments LabVIEW	Development environment software
Ruby	Development environment software
IBM Notes	Electronic mail software
Microsoft Exchange Server	Electronic mail software
Atlassian Bamboo	Enterprise application integration software

Detailed Technology	Technology Group
Extensible markup language XML	Enterprise application integration software
IBM WebSphere	Enterprise application integration software
Microsoft SQL Server Integration Services SSIS	Enterprise application integration software
Oracle Fusion Middleware	Enterprise application integration software
Microsoft Dynamics	Enterprise resource planning ERP software
Oracle Fusion Applications	Enterprise resource planning ERP software
Oracle Hyperion	Enterprise resource planning ERP software
Oracle JD Edwards EnterpriseOne	Enterprise resource planning ERP software
Oracle PeopleSoft	Enterprise resource planning ERP software
Oracle PeopleSoft Financials	Enterprise resource planning ERP software
SAP	Enterprise resource planning ERP software
ArcSight Enterprise Threat and Risk Management	Enterprise system management software
IBM Power Systems software	Enterprise system management software
Splunk Enterprise	Enterprise system management software
Ansible software	Expert system software
Apache Subversion SVN	File versioning software
Git	File versioning software
WinMerge	File versioning software
Computer forensic software	Filesystem software
Delphi Technology	Financial analysis software
Oracle E-Business Suite Financials	Financial analysis software
Adobe Systems Adobe Flash	Graphics or photo imaging software
Microsoft Visio	Graphics or photo imaging software
Human resource management software HRMS	Human resources software
Supervisory control and data acquisition SCADA software	Industrial control software
LexisNexis	Information retrieval or search software
Active directory software	Internet directory services software
Berkeley Internet Domain Name BIND	Internet directory services software

Detailed Technology	Technology Group
Domain name system DNS	Internet directory services software
Network directory services software	Internet directory services software
Voice over internet protocol VoiP system software	Internet protocol IP multimedia subsystem software
License management software	License management software
ESRI ArcGIS software	Map creation software
Geographic information system GIS software	Map creation software
Epic Systems	Medical software
AccessData FTK	Network monitoring software
Automated audit trail analysis software	Network monitoring software
Automated media tracking software	Network monitoring software
Ethereal	Network monitoring software
Guidance Software EnCase Forensic	Network monitoring software
IBM QRadar SIEM	Network monitoring software
Integrity verification software	Network monitoring software
Keystroke monitoring software	Network monitoring software
Micro Focus OpenView	Network monitoring software
Nagios	Network monitoring software
Network intrusion prevention systems NIPS	Network monitoring software
Network, hardware, and software auditing software	Network monitoring software
Oracle Net Manager	Network monitoring software
Quest BigBrother	Network monitoring software
Sniffer Investigator	Network monitoring software
Snort	Network monitoring software
Symantec Blue Coat Data Loss Prevention	Network monitoring software
Tcpdump	Network monitoring software
Wireshark	Network monitoring software
Cryptographic key management software	Network security and virtual private network VPN equipment software
Firewall software	Network security and virtual private network VPN equipment software

Detailed Technology	Technology Group
Imperva SecureSphere	Network security and virtual private network VPN equipment software
IpFilter	Network security and virtual private network VPN equipment software
IpTables	Network security and virtual private network VPN equipment software
Juniper Networks NetScreen-Security Manager	Network security and virtual private network VPN equipment software
Palo Alto Networks Next-Generation Security Platform	Network security and virtual private network VPN equipment software
Trend Micro TippingPoint	Network security and virtual private network VPN equipment software
Virtual private networking VPN software	Network security and virtual private network VPN equipment software
HP Fortify	Network security or virtual private network VPN management software
Intrusion detection system IDS	Network security or virtual private network VPN management software
Intrusion prevention system IPS	Network security or virtual private network VPN management software
ISS RealSecure	Network security or virtual private network VPN management software
Network and system vulnerability assessment software	Network security or virtual private network VPN management software
Network security auditing software	Network security or virtual private network VPN management software
Qualys Cloud Platform	Network security or virtual private network VPN management software
Security incident management software	Network security or virtual private network VPN management software
Websense Data Loss Prevention	Network security or virtual private network VPN management software
Advanced business application programming ABAP	Object or component oriented development software
Apache Groovy	Object or component oriented development software

Detailed Technology	Technology Group
C#	Object or component oriented development software
C++	Object or component oriented development software
Objective C	Object or component oriented development software
Oracle Java	Object or component oriented development software
Practical extraction and reporting language Perl	Object or component oriented development software
Python	Object or component oriented development software
Scala	Object or component oriented development software
Swift	Object or component oriented development software
PostgreSQL	Object oriented data base management software
Microsoft Office	Office suite software
Apple macOS	Operating system software
Bash	Operating system software
Hewlett Packard HP-UX	Operating system software
Job control language JCL	Operating system software
KornShell	Operating system software
Linux	Operating system software
Microsoft Hyper-V Server	Operating system software
Microsoft Windows	Operating system software
Microsoft Windows Server	Operating system software
Oracle Solaris	Operating system software
Red Hat Enterprise Linux	Operating system software
Shell script	Operating system software
Ubuntu	Operating system software
UNIX	Operating system software
UNIX Shell	Operating system software

Detailed Technology	Technology Group
Smart card management software	Point of sale POS software
Apache HTTP Server	Portal server software
Microsoft PowerPoint	Presentation software
Conformance and validation testing software	Program testing software
Kali Linux	Program testing software
SeleniumHQ	Program testing software
System testing software	Program testing software
Confluence	Project management software
Microsoft Project	Project management software
Microsoft SharePoint	Project management software
Unified modeling language UML	Requirements analysis and system architecture software
Microsoft Excel	Spreadsheet software
Anti-phishing software	Transaction security and virus protection software
Anti-spyware software	Transaction security and virus protection software
Anti-Trojan software	Transaction security and virus protection software
Check Point Next Generation Secure Web Gateway	Transaction security and virus protection software
End-to-end encryption software	Transaction security and virus protection software
Honeypot	Transaction security and virus protection software
HP WebInspect	Transaction security and virus protection software
Link encryption software	Transaction security and virus protection software
McAfee	Transaction security and virus protection software
McAfee VirusScan	Transaction security and virus protection software
Metasploit	Transaction security and virus protection software
Password cracker software	Transaction security and virus protection software
Penetration testing software	Transaction security and virus protection software
Ping Identity	Transaction security and virus protection software
Portswigger BurP Suite	Transaction security and virus protection software
Program checksumming software	Transaction security and virus protection software

Detailed Technology	Technology Group
Rapid7 Nexpose	Transaction security and virus protection software
Root kit detection software	Transaction security and virus protection software
Secure internet filtering software	Transaction security and virus protection software
Security risk assessment software	Transaction security and virus protection software
Stack smashing protection SSP software	Transaction security and virus protection software
Symantec	Transaction security and virus protection software
Symantec Endpoint Protection	Transaction security and virus protection software
Symantec Norton Antivirus	Transaction security and virus protection software
Tenable Nessus	Transaction security and virus protection software
Virus scanning software	Transaction security and virus protection software
Customer information control system CICS	Transaction server software
AJAX	Web platform development software
Apache Struts	Web platform development software
Apache Tomcat	Web platform development software
Django	Web platform development software
Enterprise JavaBeans	Web platform development software
Extensible HyperText Markup Language XHTML	Web platform development software
Hypertext markup language HTML	Web platform development software
JavaScript	Web platform development software
JavaScript Object Notation JSON	Web platform development software
LAMP Stack	Web platform development software
Microsoft Active Server Pages ASP	Web platform development software
Microsoft ASP.NET	Web platform development software
Node.js	Web platform development software
Oracle JavaServer Pages JSP	Web platform development software
PHP: Hypertext Preprocessor	Web platform development software
Ruby on Rails	Web platform development software
Spring Framework	Web platform development software
Microsoft Word	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 Information Security Analysts in Louisiana.

Typical Knowledge Categories

This section shows the most common knowledge categories required by Information Security 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)
Computers and Electronics	Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.	84
English Language	Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.	82
Administration and Management	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.	67
Engineering and Technology	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.	66
Telecommunications	Knowledge of transmission, broadcasting, switching, control, and operation of telecommunications systems.	66
Customer and Personal Service	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.	61

Knowledge Category	Knowledge Category Description	Rank by Importance (Out of 100)
Public Safety and Security	Knowledge of relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.	57
Mathematics	Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.	47
Communications and Media	Knowledge of media production, communication, and dissemination techniques and methods. This includes alternative ways to inform and entertain via written, oral, and visual media.	45
Law and Government	Knowledge of laws, legal codes, court procedures, precedents, government regulations, executive orders, agency rules, and the democratic political process.	43
Clerical	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.	42
Personnel and Human Resources	Knowledge of principles and procedures for personnel recruitment, selection, training, compensation and benefits, labor relations and negotiation, and personnel information systems.	36
Design	Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.	35
Production and Processing	Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.	35
Economics and Accounting	Knowledge of economic and accounting principles and practices, the financial markets, banking and the analysis and reporting of financial data.	32

Knowledge Category	Knowledge Category Description	Rank by Importance (Out of 100)
Psychology	Knowledge of human behavior and performance; individual differences in ability, personality, and interests; learning and motivation; psychological research methods; and the assessment and treatment of behavioral and affective disorders.	27

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 Information Security 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)
Deductive Reasoning	The ability to apply general rules to specific problems to produce answers that make sense.	75
Inductive Reasoning	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	75
Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.	75
Problem Sensitivity	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.	75
Written Comprehension	The ability to read and understand information and ideas presented in writing.	75
Information Ordering	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).	72
Written Expression	The ability to communicate information and ideas in writing so others will understand.	72
Near Vision	The ability to see details at close range (within a few feet of the observer).	69

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
Oral Expression	The ability to communicate information and ideas in speaking so others will understand.	69
Category Flexibility	The ability to generate or use different sets of rules for combining or grouping things in different ways.	63
Flexibility of Closure	The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.	60
Speech Clarity	The ability to speak clearly so others can understand you.	60
Speech Recognition	The ability to identify and understand the speech of another person.	60
Selective Attention	The ability to concentrate on a task over a period of time without being distracted.	53
Fluency of Ideas	The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness, or creativity).	50
Originality	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
Perceptual Speed	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
Speed of Closure	The ability to quickly make sense of, combine, and organize information into meaningful patterns.	47
Far Vision	The ability to see details at a distance.	44
Mathematical Reasoning	The ability to choose the right mathematical methods or formulas to solve a problem.	44
Time Sharing	The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).	44
Visualization	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	44

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
Finger Dexterity	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.	35
Memorization	The ability to remember information such as words, numbers, pictures, and procedures.	31
Number Facility	The ability to add, subtract, multiply, or divide quickly and correctly.	31
Visual Color Discrimination	The ability to match or detect differences between colors, including shades of color and brightness.	28
Arm-Hand Steadiness	The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.	25
Control Precision	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	22
Hearing Sensitivity	The ability to detect or tell the differences between sounds that vary in pitch and loudness.	22
Manual Dexterity	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.	22
Auditory Attention	The ability to focus on a single source of sound in the presence of other distracting sounds.	19
Depth Perception	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.	19
Extent Flexibility	The ability to bend, stretch, twist, or reach with your body, arms, and/or legs.	16
Trunk Strength	The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without 'giving out' or fatiguing.	16
Dynamic Strength	The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.	10
Wrist-Finger Speed	The ability to make fast, simple, repeated movements of the fingers, hands, and wrists.	10

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
Response Orientation	The ability to choose quickly between two or more movements in response to two or more different signals (lights, sounds, pictures). It includes the speed with which the correct response is started with the hand, foot, or other body part.	3
Stamina	The ability to exert yourself physically over long periods of time without getting winded or out of breath.	3

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

Typical Work Interests

This section shows the results of a national survey listing the most common work interests for Information Security Analysts in order of importance.

Work Interest	Work Interest Description	Rank by Importance (Out of 100)
Conventional	Conventional occupations frequently involve following set procedures and routines. These occupations can include working with data and details more than with ideas. Usually there is a clear line of authority to follow.	89
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.	72
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.	61

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Typical Work Styles

This section shows the most common work styles required by Information Security 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)
Attention to Detail	Job requires being careful about detail and thorough in completing work tasks.	89
Dependability	Job requires being reliable, responsible, and dependable, and fulfilling obligations.	88
Integrity	Job requires being honest and ethical.	88
Analytical Thinking	Job requires analyzing information and using logic to address work-related issues and problems.	86
Cooperation	Job requires being pleasant with others on the job and displaying a good-natured, cooperative attitude.	82
Adaptability/Flexibility	Job requires being open to change (positive or negative) and to considerable variety in the workplace.	81
Initiative	Job requires a willingness to take on responsibilities and challenges.	80
Persistence	Job requires persistence in the face of obstacles.	76
Self Control	Job requires maintaining composure, keeping emotions in check, controlling anger, and avoiding aggressive behavior, even in very difficult situations.	76
Achievement/Effort	Job requires establishing and maintaining personally challenging achievement goals and exerting effort toward mastering tasks.	75
Stress Tolerance	Job requires accepting criticism and dealing calmly and effectively with high stress situations.	73
Leadership	Job requires a willingness to lead, take charge, and offer opinions and direction.	73
Independence	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.	72

Work Style	Work Style Description	Rank by Importance (Out of 100)
Innovation	Job requires creativity and alternative thinking to develop new ideas for and answers to work-related problems.	68
Concern for Others	Job requires being sensitive to others' needs and feelings and being understanding and helpful on the job.	67
Social Orientation	Job requires preferring to work with others rather than alone, and being personally connected with others on the job.	59

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

Related Occupations

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

Rank	Related Occupations	Duties	*Related By
1	Computer Network Architects	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	Computer Programmers	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

Rank	Related Occupations	Duties	*Related By
3	Computer Systems Analysts	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.	O*NET
4	Computer Systems Engineers/Architects	Design and develop solutions to complex applications problems, system administration issues, or network concerns. Perform systems management and integration functions.	O*NET
5	Computer User Support Specialists	Provide technical assistance to computer users. Answer questions or resolve computer problems for clients in person, or via telephone or electronically. May provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems.	O*NET
6	Database Administrators	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
7	Geospatial Information Scientists and Technologists	Research or develop geospatial technologies. May produce databases, perform applications programming, or coordinate projects. May specialize in areas such as agriculture, mining, health care, retail trade, urban planning, or military intelligence.	O*NET
8	Informatics Nurse Specialists	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

Rank	Related Occupations	Duties	*Related By
9	Network and Computer Systems Administrators	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
10	Software Developers, Applications	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
11	Software Developers, Systems Software	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
12	Software Quality Assurance Engineers and Testers	Develop and execute software test plans in order to identify software problems and their causes.	O*NET
13	Web Administrators	Manage web environment design, deployment, development and maintenance activities. Perform testing and quality assurance of web sites and web applications.	O*NET

Rank	Related Occupations	Duties	*Related By
14	Web Developers	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
15	Claims Examiners, Property and Casualty Insurance	Review settled insurance claims to determine that payments and settlements have been made in accordance with company practices and procedures. Report overpayments, underpayments, and other irregularities. Confer with legal counsel on claims requiring litigation.	O*NET
16	Computer and Information Systems Managers	Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming.	O*NET
17	Computer Hardware Engineers	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	Electrical Engineers	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	Fraud Examiners, Investigators and Analysts	Obtain evidence, take statements, produce reports, and testify to findings regarding resolution of fraud allegations. May coordinate fraud detection and prevention activities.	O*NET
20	Industrial Engineering Technicians	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
21	Industrial Safety and Health Engineers	Plan, implement, and coordinate safety programs, requiring application of engineering principles and technology, to prevent or correct unsafe environmental working conditions.	O*NET

Rank	Related Occupations	Duties	*Related By
22	Logisticians	Analyze and coordinate the logistical functions of a firm or organization. Responsible for the entire life cycle of a product, including acquisition, distribution, internal allocation, delivery, and final disposal of resources.	O*NET
23	Logistics Analysts	Analyze product delivery or supply chain processes to identify or recommend changes. May manage route activity including invoicing, electronic bills, and shipment tracing.	O*NET
24	Occupational Health and Safety Specialists	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
25	Petroleum Engineers	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
26	Power Distributors and Dispatchers	Coordinate, regulate, or distribute electricity or steam.	O*NET
27	Product Safety Engineers	Develop and conduct tests to evaluate product safety levels and recommend measures to reduce or eliminate hazards.	O*NET
28	Technical Writers	Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions. May assist in layout work.	O*NET
29	Validation Engineers	Design or plan protocols for equipment or processes to produce products meeting internal and external purity, safety, and quality requirements.	O*NET

BRIGHT OUTLOOK NATIONALLY | GREEN OCCUPATIONS

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

Career Ladder

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

Occupation Title	Number of Individuals that Moved	Percentage of Individuals that Moved
Network and Computer Systems Administrators	11	21.57%
Computer User Support Specialists	6	11.76%
Customer Service Representatives	6	11.76%
Computer Network Support Specialists	5	9.80%
Security Guards	5	9.80%
Cashiers	5	9.80%
Computer and Information Systems Managers	4	7.84%
Computer Systems Analysts	3	5.88%
Software Developers, Applications	3	5.88%
Medical Assistants	3	5.88%

BRIGHT OUTLOOK NATIONALLY | GREEN OCCUPATIONS

Source: Individuals with active résumés in the workforce system.

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View more occupational videos on CareerOneStop