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Diagnostic Medical Sonographers Louisiana

Summary of Job Duties

Diagnostic Medical Sonographers [Video](#) - Produce ultrasonic recordings of internal organs for use by physicians.

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

Diagnostic Medical Sonographers Diagnostic sonographers use high-frequency sound waves to produce images of the inside of the body.

Diagnostic medical sonographers and cardiovascular technologists and technicians, including vascular technologists, also called diagnostic imaging workers, operate special imaging equipment to create images or conduct tests. The images and test results help physicians assess and diagnose medical conditions. Sonographers and technologists may work closely with physicians and surgeons before, during, and after procedures.

Duties

Diagnostic medical sonographers and cardiovascular technologists and technicians, including vascular technologists, typically do the following:

- Prepare patients for procedures by taking their medical history and answering any questions about the procedure
- Prepare and maintain diagnostic imaging equipment
- Operate equipment to obtain diagnostic images or to conduct tests
- Review images or test results to check for quality and adequate coverage of the areas needed for diagnoses
- Recognize the difference between normal and abnormal images, and identify other diagnostic information
- Analyze diagnostic information to provide a summary of findings for physicians
- Record findings and keep track of patients' records

Diagnostic medical sonographers specialize in creating images of the body's organs and tissues. The images are known as sonograms or ultrasounds. Sonograms are often the first imaging tests performed when disease is suspected.

Diagnostic sonography uses high-frequency sound waves to produce images of the inside of the body. The sonographer uses an instrument called an ultrasound transducer to scan parts of the patient's body that are being examined. The transducer emits pulses of sound that bounce back, causing echoes. The echoes are then sent to an ultrasound machine, which processes them and displays them as images used by physicians for diagnosis.

The following are examples of types of diagnostic medical sonographers:

- Abdominal sonographers specialize in imaging a patient's abdominal cavity and nearby organs, such as the kidney, liver, gallbladder, pancreas, or spleen. Abdominal sonographers may assist with biopsies or other examinations requiring ultrasound guidance.
- Breast sonographers specialize in imaging a patient's breast tissues. Sonography can confirm the presence of cysts and tumors that may have been detected by the patient, the physician, or a mammogram. Breast sonographers work closely with physicians and assist with procedures that track tumors and help to provide information that will aid doctors in making decisions about the best treatment options for breast cancer patients.
- Cardiac sonographers (echocardiographers) specialize in imaging a patient's heart. They use ultrasound equipment to examine the heart's chambers, valves, and vessels. The images obtained are known as echocardiograms. An echocardiogram may be performed either while the patient is resting or after the patient has been physically active. Cardiac sonographers also may take echocardiograms of fetal hearts so that physicians can diagnose cardiac conditions during pregnancy. Cardiac sonographers work closely with physicians or surgeons before, during, and after procedures.
- Musculoskeletal sonographers specialize in imaging muscles, ligaments, tendons, and joints. These sonographers may assist with ultrasound guidance for injections, or during surgical procedures, that deliver medication or treatment directly to affected tissues.
- Pediatric sonographers specialize in imaging children and infants. Many of the medical conditions they image are associated with premature births or birth defects. Pediatric sonographers may work closely with pediatricians and other caregivers.
- Obstetric and gynecologic sonographers specialize in imaging the female reproductive system. Many pregnant women receive sonograms to track the baby's growth and health. Obstetrical sonographers work closely with physicians in detecting congenital birth defects.
- Vascular technologists (vascular sonographers) create images of blood vessels and collect data that help physicians diagnose disorders affecting blood flow. Vascular technologists often measure a patient's blood pressure and the volume of blood in their arms, legs, fingers, and toes in order to evaluate blood flow and identify blocked arteries or blood clots in the body.

Cardiovascular technologists and technicians create images and conduct tests involving the heart and lungs. The following are examples of types of cardiovascular technologists and technicians:

- Cardiovascular invasive specialists, also known as cardiac catheterization technologists or cardiovascular technologists, monitor patients' heart rates and help physicians in diagnosing and treating problems with patients' hearts. They assist with cardiac catheterization, which involves threading a catheter through a patient's artery to the heart. They also prepare and monitor patients during open-heart surgery and during the insertion of pacemakers and stents. Technologists prepare patients for procedures by shaving and cleansing the area into which the catheter will be inserted and by administering topical anesthesia. During the procedure, they monitor the patient's blood pressure and heart rate.
- Cardiographic or electrocardiogram (EKG) technicians specialize in EKG testing. EKG machines monitor the heart's performance through electrodes attached to a patient's chest, arms, and legs. The tests can be done while the patient is at rest or while the patient is physically active. For a stress test, the patient walks on a treadmill and the technician gradually increases the speed to observe the effect on the heart of increased exertion.
- Pulmonary function technologists, also known as cardiopulmonary technologists, monitor and test patients' lungs and breathing. For example, they use spirometry to measure the amount of air that a

patient can inhale or exhale. These technologists help physicians in diagnosing and treating problems of the pulmonary system.

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

Job Zone


The section below shows the job zone information for Diagnostic Medical Sonographers. Job Zone Three: Medium Preparation Needed.

Education	Experience	Training
Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree.	Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.	Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers. A recognized apprenticeship program may be associated with these occupations.

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

Jobs Available

This section shows the number of job openings advertised online in Louisiana for Diagnostic Medical Sonographers and for the related occupational group of Healthcare Practitioners and Technical Occupations on November 23, 2020 (Jobs De-duplication Level [2](#)).

Occupation	Job Openings
Diagnostic Medical Sonographers 	<u>77</u>
Healthcare Practitioners and Technical Occupations	<u>10,407</u>

 BRIGHT OUTLOOK NATIONALLY

Source: Online advertised jobs data

Monthly Job Count

This section shows the number of job openings advertised online for Diagnostic Medical Sonographers in Louisiana October, 2020 (Jobs De-duplication Level [2](#)).

Occupation	Job Openings
Diagnostic Medical Sonographers 	108

 BRIGHT OUTLOOK NATIONALLY

Source: Online advertised jobs data

Jobs Area Distribution

This section shows the distribution of number of job openings advertised online for Diagnostic Medical Sonographers in Louisiana by parishes on November 23, 2020 (Jobs De-duplication Level [2](#)).

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

Jobs in Related Occupations

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

Rank	Occupation	Median Wage	Job Openings	*Related By
1	Registered Nurses 🌟	\$64,044	4,509	O*NET
2	Licensed Practical and Licensed Vocational Nurses 🌟	\$40,065	697	O*NET
3	Surgical Technologists 🌟	\$40,492	222	O*NET
4	Medical and Clinical Laboratory Technologists 🌟	N/A	190	O*NET
5	Respiratory Therapists 🌟	\$54,660	181	O*NET
6	Radiologic Technologists 🌟	\$51,720	168	O*NET
7	Pharmacy Technicians 🌟	\$33,109	166	SOC4
8	Emergency Medical Technicians and Paramedics 🌟	N/A	122	O*NET
9	Computer User Support Specialists 🌟	N/A	88	O*NET
10	Medical and Clinical Laboratory Technicians 🌟	N/A	83	O*NET
11	Diagnostic Medical Sonographers 🌟	\$62,001	77	N/A
12	Respiratory Therapy Technicians	N/A	66	O*NET

Rank	Occupation	Median Wage	Job Openings	*Related By
13	Psychiatric Technicians ✦	\$26,817	51	SOC4
14	Cardiovascular Technologists and Technicians ✦	\$37,253	44	O*NET
15	Nuclear Medicine Technologists ✦	\$68,193	39	O*NET
16	Medical Records and Health Information Technicians ✦	N/A	31	SOC4
17	Dietetic Technicians	\$25,252	28	SOC4
18	Veterinary Technologists and Technicians ✦	\$25,902	26	O*NET
19	Radiologic Technicians ✦	N/A	21	O*NET
20	Dental Hygienists ✦	N/A	20	O*NET
21	Acute Care Nurses ✦	\$64,044	16	O*NET
22	Radiation Therapists ✦	\$70,724	11	O*NET
23	Cytotechnologists ✦	N/A	11	SOC4
24	Health Technologists and Technicians, All Other ✦	N/A	11	SOC4
25	Endoscopy Technicians ✦	\$27,234	11	O*NET
26	Histotechnologists and Histologic Technicians ✦	N/A	5	SOC4
27	Opticians, Dispensing ✦	\$31,270	4	SOC4
28	Orthotists and Prosthetists ✦	\$67,332	2	SOC4
29	Medical Appliance Technicians ✦	\$34,012	2	O*NET
30	Neurodiagnostic Technologists ✦	N/A	1	O*NET

✦ BRIGHT OUTLOOK NATIONALLY

Job Source: Online advertised jobs data

Wage Source: Labor Market Statistics, Occupational Employment Statistics Program

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

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

SOC4 - Occupational grouping based on 1st 4 digits of the [Standard Occupational Classification](#) system.

Candidates Available

This section shows potential candidates in the workforce system in Louisiana for Diagnostic Medical Sonographers and for the related occupational group of Healthcare Practitioners and Technical Occupations on November 23, 2020.

Occupation	Candidates
Diagnostic Medical Sonographers✦	25
Healthcare Practitioners and Technical Occupations	5,240

✦ 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 Diagnostic Medical Sonographers in Louisiana by parishes on November 23, 2020.

Rank	Area Name	Median Wage	Candidates
1	<u>Orleans Parish</u>	\$62,001 state level wages	11
2	<u>Jefferson Parish</u>	\$62,001 state level wages	9
3	<u>Lafayette Parish</u>	\$62,001 state level wages	9
4	<u>Ouachita Parish</u>	\$62,001 state level wages	9
5	<u>St. Bernard Parish</u>	\$62,001 state level wages	9
6	<u>St. Tammany Parish</u>	\$62,001 state level wages	9
7	<u>Plaquemines Parish</u>	\$62,001 state level wages	8
8	<u>Morehouse Parish</u>	\$62,001 state level wages	7
9	<u>St. Charles Parish</u>	\$62,001 state level wages	7
10	<u>Tangipahoa Parish</u>	\$62,001 state level wages	7

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

Candidates in Related Occupations

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

Rank	Occupation	Median Wage	Candidates	*Related By
1	<u>Licensed Practical and Licensed Vocational Nurses</u> ✪	\$40,065	815	O*NET
2	<u>Medical Records and Health Information Technicians</u> ✪	N/A	594	SOC4
3	<u>Computer User Support Specialists</u> ✪	N/A	552	O*NET
4	<u>Registered Nurses</u> ✪	\$64,044	423	O*NET
5	<u>Pharmacy Technicians</u> ✪	\$33,109	298	SOC4
6	<u>Medical and Clinical Laboratory Technicians</u> ✪	N/A	248	O*NET
7	<u>Health Technologists and Technicians, All Other</u> ✪	N/A	181	SOC4
8	<u>Acute Care Nurses</u> ✪	\$64,044	142	O*NET
9	<u>Emergency Medical Technicians and Paramedics</u> ✪	N/A	129	O*NET
10	<u>Psychiatric Technicians</u> ✪	\$26,817	115	SOC4
11	<u>Dental Hygienists</u> ✪	N/A	109	O*NET
12	<u>Surgical Technologists</u> ✪	\$40,492	108	O*NET

Rank	Occupation	Median Wage	Candidates	*Related By
13	<u>Cardiovascular Technologists and Technicians</u> 🌟	\$37,253	73	O*NET
14	<u>Opticians, Dispensing</u> 🌟	\$31,270	67	SOC4
15	<u>Radiologic Technicians</u> 🌟	N/A	56	O*NET
16	<u>Dietetic Technicians</u>	\$25,252	53	SOC4
17	<u>Veterinary Technologists and Technicians</u> 🌟	\$25,902	48	O*NET
18	<u>Medical and Clinical Laboratory Technologists</u> 🌟	N/A	41	O*NET
19	<u>Radiologic Technologists</u> 🌟	\$51,720	34	O*NET
20	Diagnostic Medical Sonographers 🌟	\$62,001	25	N/A
21	<u>Respiratory Therapists</u> 🌟	\$54,660	20	O*NET
22	<u>Nuclear Medicine Technologists</u> 🌟	\$68,193	8	O*NET
23	<u>Endoscopy Technicians</u> 🌟	\$27,234	8	O*NET
24	<u>Medical Appliance Technicians</u> 🌟	\$34,012	8	O*NET
25	<u>Neurodiagnostic Technologists</u> 🌟	N/A	6	O*NET
26	<u>Respiratory Therapy Technicians</u>	N/A	4	O*NET
27	<u>Orthotists and Prosthetists</u> 🌟	\$67,332	2	SOC4
28	<u>Histotechnologists and Histologic Technicians</u> 🌟	N/A	1	SOC4

🌟 BRIGHT OUTLOOK NATIONALLY

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

Wage Source: Labor Market Statistics, Occupational Employment Statistics Program

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

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

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

Jobs and Candidates Available

This section shows the number of job openings advertised online, as well as potential candidates in the workforce system in Louisiana for Diagnostic Medical Sonographers and for the related occupational group of Healthcare Practitioners and Technical Occupations on November 23, 2020 (Jobs De-duplication Level 2).

Occupation	Job Openings	Candidates	Candidates per Job
Diagnostic Medical Sonographers 🌟	<u>77</u>	25	0.32
Healthcare Practitioners and Technical Occupations	<u>10,407</u>	5,240	0.50

🌟 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 advertised online, as well as potential candidates in the workforce system for Diagnostic Medical Sonographers in Louisiana by parishes on November 23, 2020 (Jobs De-duplication Level 2).

Rank	Area Name	Median Wage	Job Openings	Candidates	Candidates per Job
1	<u>Ouachita Parish</u>	\$62,001 state level wages	<u>1</u>	9	9.00
2	<u>Washington Parish</u>	\$62,001 state level wages	<u>1</u>	6	6.00
3	<u>Bossier Parish</u>	\$62,001 state level wages	<u>2</u>	6	3.00
4	<u>Lafourche Parish</u>	\$62,001 state level wages	<u>2</u>	6	3.00
5	<u>Webster Parish</u>	\$62,001 state level wages	<u>2</u>	6	3.00
6	<u>Orleans Parish</u>	\$62,001 state level wages	<u>5</u>	11	2.20
7	<u>East Baton Rouge Parish</u>	\$62,001 state level wages	<u>3</u>	6	2.00
8	<u>Tangipahoa Parish</u>	\$62,001 state level wages	<u>4</u>	7	1.75
9	<u>Lafayette Parish</u>	\$62,001 state level wages	<u>6</u>	9	1.50
10	<u>Jefferson Parish</u>	\$62,001 state level wages	<u>9</u>	9	1.00

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

National Supply and Demand Summary

Diagnostic Medical Sonographers Employment of diagnostic medical sonographers is projected to grow 23 percent from 2016 to 2026, much faster than the average for all occupations. Employment of cardiovascular technologists and technicians, including vascular technologists, is projected to grow 10 percent from 2016 to 2026, faster than the average for all occupations.

As the large baby-boom population ages, the need to diagnose medical conditions—such as blood clots and heart disease—will likely increase. Imaging technology is a tool used in making these diagnoses. Moreover, diagnostic medical sonographers, cardiovascular technologists and technicians, and vascular technologists will continue to be needed in healthcare settings to provide an alternative to imaging techniques that involve radiation.

Job Prospects

Diagnostic imaging personnel who are certified are expected to have the best job opportunities. Those certified in more than one specialty are expected to find even greater job opportunities.

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

Employers by Number of Job Openings

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

Rank	Employer Name	Job Openings
1	CHRISTUS Health	<u>12</u>

Rank	Employer Name	Job Openings
2	Ochsner Health System	<u>7</u>
3	Franciscan Missionaries of Our Lady Health System	<u>4</u>
4	HCA Healthcare, Inc.	<u>4</u>
5	Jackson Therapy Partners, Inc.	<u>3</u>
6	Lafayette General Health	<u>3</u>
7	LCMC Health	<u>3</u>
8	St. Tammany Parish Hospital	<u>3</u>
9	Anders Group	<u>2</u>
10	North Oaks Health System	<u>2</u>

Source: Online advertised jobs data

Advertised Job Skills

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

Rank	Advertised Detailed Job Skill	Advertised Skill Group	Job Opening Match Count
1	Performs diagnostic sonographic examinations	Ultrasound Technicians Skills	<u>29</u>
2	Utilizing ultrasonic equipment	Ultrasound Technicians Skills	<u>25</u>
3	Customer service	Customer Service Skills	<u>20</u>
4	Evaluates patient care	Registered Nurse (RN) Skills	<u>16</u>
5	Telephone skills	Interpersonal Skills	<u>16</u>
6	Evaluate patients	Physician Assistant Skills	<u>6</u>
7	Knowledge of anatomy	Medical Coding Skills	<u>5</u>
8	Decision making	Basic Skills	<u>3</u>
9	Must be flexible	Basic Skills	<u>3</u>
10	Critical thinking	Basic Skills	<u>3</u>

Source: Online advertised jobs data

Advertised Tools and Technology

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

Rank	Advertised Detailed Tool or Technology	Advertised Tool and Technology Group	Job Opening Match Count
1	Keyboard	Keyboards	<u>9</u>
2	Alarms	Alarm Systems	<u>5</u>
3	Dollies	Dollies	<u>5</u>

Rank	Advertised Detailed Tool or Technology	Advertised Tool and Technology Group	Job Opening Match Count
4	Infusion pumps	Intravenous Infusion Pumps for General Use	5
5	Gmail	Electronic Mail Software	4
6	Diagnostic ultrasound equipment	Medical Ultrasound/Doppler/Pulse Echo/Echography Units for General Diagnostic Use	4
7	Ladders	Ladders	3
8	Wheelchair	Wheelchairs	1
9	Transducers	Medical Ultrasound/Doppler/Echo Transducers or Accessories	1
10	Protective gloves	Chemical Resistant Gloves	1

Source: Online advertised jobs data

Typical Job Skills

This section shows the job skills that are related to Diagnostic Medical Sonographers.

Rank	Typical Job Skills	Typical Skill Category
1	Adjust settings or positions of medical equipment	Work Output
2	Monitor video displays of medical equipment to ensure proper functioning	Information Input
3	Monitor patient conditions during treatments, procedures, or activities	Information Input
4	Communicate test or assessment results to medical professionals	Interacting With Others
5	Operate diagnostic imaging equipment	Work Output
6	Position patients for treatment or examination	Interacting With Others
7	Create advanced digital images of patients using computer imaging systems	Work Output
8	Explain medical procedures or test results to patients or family members	Interacting With Others
9	Prepare patients physically for medical procedures	Interacting With Others
10	Analyze test data or images to inform diagnosis or treatment	Mental Processes
11	Record patient medical histories	Work Output
12	Gather medical information from patient histories	Information Input
13	Prepare official health documents or records	Work Output
14	Process x-rays or other medical images	Work Output
15	Assist healthcare practitioners during surgery	Interacting With Others
16	Collaborate with healthcare professionals to plan or provide treatment	Interacting With Others

Rank	Typical Job Skills	Typical Skill Category
17	Clean medical equipment or facilities	Work Output
18	Examine medical instruments or equipment to ensure proper operation	Information Input
19	Repair medical facility equipment	Work Output
20	Maintain medical facility records	Work Output
21	Perform clerical work in medical settings	Interacting With Others
22	Schedule patient procedures or appointments	Mental Processes
23	Supervise patient care personnel	Interacting With Others
24	Train medical providers	Interacting With Others
25	Implement advanced life support techniques	Interacting With Others
26	Treat medical emergencies	Interacting With Others
27	Maintain inventory of medical supplies or equipment	Interacting With Others
28	Order medical supplies or equipment	Interacting With Others
29	Prepare medical supplies or equipment for use	Work Output

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

Personal Skills

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

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.	72
Speaking	Talking to others to convey information effectively.	69
Reading Comprehension	Understanding written sentences and paragraphs in work related documents.	69
Social Perceptiveness	Being aware of others' reactions and understanding why they react as they do.	69
Critical Thinking	Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.	63
Monitoring	Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.	63

Personal Skill	Skill Description	Rank by Importance (Out of 100)
<u>Time Management</u>	Managing one's own time and the time of others.	60
<u>Active Learning</u>	Understanding the implications of new information for both current and future problem-solving and decision-making.	60
<u>Science</u>	Using scientific rules and methods to solve problems.	56
<u>Writing</u>	Communicating effectively in writing as appropriate for the needs of the audience.	56
<u>Coordination</u>	Adjusting actions in relation to others' actions.	56
<u>Service Orientation</u>	Actively looking for ways to help people.	53
<u>Complex Problem Solving</u>	Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.	53
<u>Judgment and Decision Making</u>	Considering the relative costs and benefits of potential actions to choose the most appropriate one.	53
<u>Operation Monitoring</u>	Watching gauges, dials, or other indicators to make sure a machine is working properly.	53
<u>Operation and Control</u>	Controlling operations of equipment or systems.	53
<u>Instructing</u>	Teaching others how to do something.	50
<u>Persuasion</u>	Persuading others to change their minds or behavior.	50
<u>Learning Strategies</u>	Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.	50
<u>Quality Control Analysis</u>	Conducting tests and inspections of products, services, or processes to evaluate quality or performance.	44
<u>Management of Personnel Resources</u>	Motivating, developing, and directing people as they work, identifying the best people for the job.	44
<u>Equipment Maintenance</u>	Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.	41
<u>Negotiation</u>	Bringing others together and trying to reconcile differences.	38
<u>Systems Analysis</u>	Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.	35
<u>Troubleshooting</u>	Determining causes of operating errors and deciding what to do about it.	31
<u>Equipment Selection</u>	Determining the kind of tools and equipment needed to do a job.	31
<u>Repairing</u>	Repairing machines or systems using the needed tools.	28

Personal Skill	Skill Description	Rank by Importance (Out of 100)
<u>Systems Evaluation</u>	Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.	28
<u>Mathematics</u>	Using mathematics to solve problems.	28
<u>Operations Analysis</u>	Analyzing needs and product requirements to create a design.	25
<u>Technology Design</u>	Generating or adapting equipment and technology to serve user needs.	25
<u>Management of Material Resources</u>	Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to do certain work.	22
<u>Management of Financial Resources</u>	Determining how money will be spent to get the work done, and accounting for these expenditures.	19
<u>Programming</u>	Writing computer programs for various purposes.	6
<u>Installation</u>	Installing equipment, machines, wiring, or programs to meet specifications.	0

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

Typical Education Requirements

Diagnostic Medical Sonographers Diagnostic Medical Sonographers usually require at least an Associate's degree. However, not all employers may make this a hiring requirement.

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

Required Level of Education

This section shows the results of a national survey listing the most common required level of education for Diagnostic Medical Sonographers.

Rank	Required Level of Education	Percentage of Respondents
1	Associate's Degree (or other 2-year degree)	47.13%
2	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)	19.34%
3	Bachelor's Degree	16.83%
4	First Professional Degree - awarded for completion of a program that: requires at least 2 years of college work before entrance into the program, includes a total of at least 6 academic years of work to complete, and provides all remaining academic requirements to begin practice in a profession.	16.70%

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 Diagnostic Medical Sonographers.

Rank	On The Job Training	Percentage of Respondents
1	Over 1 year, up to and including 2 years	22.19%
2	Over 3 months, up to and including 6 months	21.27%
3	Anything beyond short demonstration, up to and including 1 month	15.48%
4	Over 1 month, up to and including 3 months	15.00%
5	Over 6 months, up to and including 1 year	11.96%
6	None or short demonstration	11.03%
7	Over 2 years, up to and including 4 years	2.28%
8	Over 4 years, up to and including 10 years	0.79%

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 Diagnostic Medical Sonographers.

Rank	On-Site or In-Plant Training	Percentage of Respondents
1	None	29.81%
2	Over 3 months, up to and including 6 months	19.29%
3	Over 6 months, up to and including 1 year	15.29%
4	Over 1 month, up to and including 3 months	13.12%
5	Up to and including 1 month	11.20%
6	Over 1 year, up to and including 2 years	10.51%
7	Over 4 years, up to and including 10 years	0.79%

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

Education Level of Jobs and Candidates

This section shows the minimum level of education requested by employers on job openings advertised online, as well as the educational attainment of potential candidates in the workforce system that are looking for jobs as Diagnostic Medical Sonographers in Louisiana on November 23, 2020. There were 71 job openings advertised online that did not specify a minimum education requirement (Jobs De-duplication Level 2).



Rank	Education Level	Job Openings	Percentage of Job Openings	Potential Candidates	Percentage of Potential Candidates
1	No Minimum Education Requirement	1	1.30%	0	N/A

Rank	Education Level	Job Openings	Percentage of Job Openings	Potential Candidates	Percentage of Potential Candidates
2	High School Diploma or Equivalent	<u>2</u>	2.60%	1	4.00%
3	1 Year of College or a Technical or Vocational School	0	N/A	2	8.00%
4	2 Years of College or a Technical or Vocational School	0	N/A	2	8.00%
5	3 Years of College or a Technical or Vocational School	0	N/A	1	4.00%
6	Vocational School Certificate	<u>1</u>	1.30%	2	8.00%
7	Associate's Degree	<u>1</u>	1.30%	10	40.00%
8	Bachelor's Degree	<u>1</u>	1.30%	5	20.00%
9	Master's Degree	0	N/A	1	4.00%
10	Specialized Degree (e.g. MD, DDS)	0	N/A	1	4.00%
11	Not Specified	<u>71</u>	92.21%	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 Diagnostic Medical Sonographers in Louisiana.

Provider Name	Program Name	Location	Tuition	Length	WIOA Eligible
Baton Rouge Community College	Diagnostic Medical Sonography (DMS) - Associate of Applied Science An associate degree	Baton Rouge, LA	\$10,905	6 Semesters	
Louisiana State University at Eunice	Associate of Applied Science in Diagnostic Medical Sonography An associate degree	Eunice, LA	\$11,051	3 Semesters	
Louisiana State University at Eunice	Diagnostic Medical Sonography	Eunice, LA	\$3,198	960 Hours	
Unitech Training Academy - Lafayette	Diagnostic Ultrasound Sonography	Lafayette, LA	\$18,500	1500 Clock 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 Diagnostic Medical Sonographers in Louisiana in October, 2020. (Jobs De-duplication Level 1)

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Rank	Advertised Certification Group	Advertised Certification Sub-Category	Job Opening Match Count
1	American Registry for Diagnostic Medical Sonography (ARDMS)	Medical Testing	<u>59</u>
2	American Heart Association (AHA) CPR & First Aid Certifications	Nursing	<u>37</u>
3	American Registry of Radiologic Technologists (ARRT) Certifications	Medical Treatment and Therapy	<u>19</u>

Source: Online advertised jobs data

Training Program Completers

There is no data available for Diagnostic Medical Sonographers in Louisiana.

National Education, Training, Licensing and Qualifications

Diagnostic Medical Sonographers Education

Colleges and universities offer both associate's and bachelor's degree programs in sonography and in cardiovascular and vascular technology. One-year certificate programs also are available from colleges and some hospitals.

Employers typically prefer graduates of programs accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

Sonography, cardiovascular, and vascular education programs usually include courses in anatomy, medical terminology, and applied sciences. Most sonography programs are divided into the specialized fields listed earlier that correspond to the relevant certification exams, such as abdominal sonography or breast sonography. Cardiovascular and vascular programs include coursework in either invasive or noninvasive cardiovascular or vascular technology procedures. In addition to requiring classroom study, most programs include a clinical component in which students earn credit while working under a more experienced technologist in a hospital, a physician's office, or an imaging laboratory.

High school students who are interested in diagnostic medical sonography, cardiovascular technology, or vascular technology should take courses in anatomy, physiology, physics, and math.

Licenses, Certifications, and Registrations

Most employers prefer to hire diagnostic imaging workers with professional certification, or they may expect applicants to earn certification shortly after being hired. Many insurance providers and Medicare pay for procedures only if a certified sonographer, technologist, or technician performed the work. Certification is available from the American Registry for Diagnostic Medical Sonographers, Cardiovascular Credentialing International, and American Registry of Radiologic Technologists.

Diagnostic imaging workers can earn certification by graduating from an accredited program, although candidates also may qualify through alternative combinations of education and experience. All candidates must pass an exam. Most of the certifications are for specialties in diagnostic imaging; for example, a sonographer can earn a certification in abdominal sonography. Most diagnostic imaging workers have at least one certification, but many earn multiple certifications.

In addition, many employers prefer to hire candidates who have a basic life support (BLS) certification, which affirms that they are trained to provide CPR.

Few states require diagnostic medical sonographers to be licensed. Typically, professional certification is required for licensure; other requirements vary by state. Contact state medical boards

for more information.

Important Qualities

Detail oriented. Diagnostic imaging workers must follow precise instructions to obtain the images needed to diagnose and treat patients. They must also pay attention to the screen while scanning a patient's body, because the cues that contrast healthy areas with unhealthy ones may be subtle.

Hand–eye coordination. To get quality images, diagnostic imaging workers must accurately move equipment on the patient's body in response to what they see on the screen.

Interpersonal skills. Diagnostic imaging workers must work closely with patients. Sometimes patients are in extreme pain or mental stress, and these workers must get cooperation from the patients in order to create usable images. Diagnostic imaging workers must also communicate clearly when discussing images with physicians and other members of the healthcare team.

Physical stamina. Diagnostic imaging workers are on their feet for long periods and must be able to lift and move patients who need assistance.

Technical skills. Diagnostic imaging workers must understand how to operate complex machinery and computerized instruments.

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

Typical Work Experience Requirements

Diagnostic Medical Sonographers Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers. A recognized apprenticeship program may be associated with these occupations.

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 Diagnostic Medical Sonographers.

Rank	Related Work Experience	Percentage of Respondents
1	Over 1 year, up to and including 2 years	57.22%
2	Over 2 years, up to and including 4 years	15.54%
3	None	12.62%
4	Over 3 months, up to and including 6 months	5.81%
5	Over 6 months, up to and including 1 year	4.71%
6	Over 6 years, up to and including 8 years	2.41%
7	Over 8 years, up to and including 10 years	1.69%

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

Work Experience of Jobs and Candidates

This section shows the minimum required work experience requested by employers on job openings advertised online, as well as the experience level of potential candidates in the workforce system that are looking for jobs as Diagnostic Medical Sonographers in Louisiana on November 23, 2020. There

were 72 job openings advertised online that did not specify a minimum experience requirement (Jobs De-duplication Level 2).

Rank	Experience	Job Openings	Percentage of Job Openings	Potential Candidates	Percentage of Potential Candidates
1	Not Specified	72	93.51%	0	N/A
2	Entry Level	1	1.30%	0	N/A
3	Less than 1 year	1	1.30%	2	8.00%
4	1 Year to 2 Years	2	2.60%	0	N/A
5	2 Years to 5 Years	1	1.30%	3	12.00%
6	5 Years to 10 Years	0	N/A	3	12.00%
7	More than 10 Years	0	N/A	17	68.00%

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 Diagnostic Medical Sonographers. 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 Diagnostic Medical Sonographers in 2019.

Rate Type / Statistical Type	Entry level	Median	Experienced
Annual wage or salary	\$45,414	\$62,001	\$82,310
Hourly wage	\$21.83	\$29.81	\$39.57

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 77 job openings advertised online for Diagnostic Medical Sonographers in Louisiana that posted a salary on November 23, 2020.

Rate Type / Statistical Type	Entry Level	Median	Experienced
Annual wage or salary	N/A	N/A	N/A
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 Diagnostic Medical Sonographers in Louisiana on November 23, 2020.

Rank	Desired Salary	Potential Candidates	Percentage of Potential Candidates
1	Not Specified	7	26.92%
2	\$35,000 - \$49,999	5	19.23%
3	\$50,000 - \$64,999	10	38.46%
4	\$65,000 - \$79,999	3	11.54%
5	\$80,000 - \$94,999	1	3.85%

Source: Individuals with active résumés in the workforce system.

Wage Rates Area Distribution

There is no data available for Diagnostic Medical Sonographers in Louisiana.

Wage Rates in Related Occupations

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

Rank	Occupation	Median	*Related By
1	Radiation Therapists 🌟	\$70,724	O*NET
2	Nuclear Medicine Technologists 🌟	\$68,193	O*NET
3	Orthotists and Prosthetists 🌟	\$67,332	SOC4
4	Registered Nurses 🌟	\$64,044	O*NET
5	Acute Care Nurses 🌟	\$64,044	O*NET
6	Diagnostic Medical Sonographers 🌟	\$62,001	N/A
7	Respiratory Therapists 🌟	\$54,660	O*NET
8	Radiologic Technologists 🌟	\$51,720	O*NET
9	Surgical Technologists 🌟	\$40,492	O*NET
10	Licensed Practical and Licensed Vocational Nurses 🌟	\$40,065	O*NET
11	Cardiovascular Technologists and Technicians 🌟	\$37,253	O*NET
12	Medical Appliance Technicians 🌟	\$34,012	O*NET
13	Pharmacy Technicians 🌟	\$33,109	SOC4
14	Opticians, Dispensing 🌟	\$31,270	SOC4
15	Endoscopy Technicians 🌟	\$27,234	O*NET
16	Psychiatric Technicians 🌟	\$26,817	SOC4
17	Veterinary Technologists and Technicians 🌟	\$25,902	O*NET
18	Dietetic Technicians	\$25,252	SOC4

🌟 BRIGHT OUTLOOK NATIONALLY

Source: Labor Market Statistics, Occupational Employment Statistics Program

The median wage is the estimated 50th percentile; 50 percent of workers in an occupation earn less than the median wage, and 50 percent earn more than the median wage. Entry level and Experienced

wage rates represent the means of the lower 1/3 and upper 2/3 of the wage distribution, respectively. Data is from an annual survey.

*Related By: O*NET™ - The [Occupational Information Network](#). O*NET is a registered trademark of the [US Department of Labor/Employment and Training Administration](#).
SOC4 - Occupational grouping based on 1st 4 digits of the [Standard Occupational Classification](#) system.

Wage Rates by Industry

There is no data available for Diagnostic Medical Sonographers in Louisiana.

National Earnings Data Summary

Diagnostic Medical Sonographers The median annual wage for diagnostic medical sonographers was \$69,650 in May 2016. The lowest 10 percent earned less than \$48,660, and the highest 10 percent earned more than \$99,100.

In May 2016, the median annual wages for cardiovascular technologists and technicians in the top industries in which they worked were as follows:

- Outpatient care centers \$65,730
- Medical and diagnostic laboratories 59,820
- Offices of physicians 58,660
- Hospitals; state, local, and private 54,540

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

- Outpatient care centers \$78,360
- Hospitals; state, local, and private 70,150
- Offices of physicians 67,860
- Medical and diagnostic laboratories 67,460

Most diagnostic imaging workers work full time. Some may work evenings, weekends, or overnight because they work in facilities that are always open.

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

Occupational Employment & Future Employment Outlook

This section shows the long term employment projections for Diagnostic Medical Sonographers in Louisiana from 2016-2026.

Occupation	2016 Estimated Employment	2026 Projected Employment	Total 2016- 2026 Employment Change	2016-2026 Annual Avg. Percent Change
Diagnostic Medical Sonographers	971	1,160	189	1.79%
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 Diagnostic Medical Sonographers in Louisiana by regional labor market area.

Rank	Area	2016 Estimated Employment
1	<u>1st Regional Labor Market Area, New Orleans</u>	273
2	<u>2nd Regional Labor Market Area, Baton Rouge</u>	199
3	<u>7th Regional Labor Market Area, Shreveport</u>	141
4	<u>4th Regional Labor Market Area, Lafayette</u>	124
5	<u>8th Regional Labor Market Area, Monroe</u>	69
6	<u>5th Regional Labor Market Area, Lake Charles</u>	63
7	<u>6th Regional Labor Market Area, Alexandria</u>	59
8	<u>3rd Regional Labor Market Area, Houma</u>	39

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 Diagnostic Medical Sonographers.

Rank	Occupation	2016 Estimated Employment	*Related By
1	<u>Acute Care Nurses</u> 🌟	44,616	O*NET
2	<u>Registered Nurses</u> 🌟	44,616	O*NET
3	<u>Licensed Practical and Licensed Vocational Nurses</u> 🌟	21,051	O*NET
4	<u>Pharmacy Technicians</u> 🌟	6,182	SOC4
5	<u>Computer User Support Specialists</u> 🌟	3,524	O*NET
6	<u>Medical Records and Health Information Technicians</u> 🌟	2,924	SOC4
7	<u>Radiologic Technologists</u> 🌟	2,806	O*NET
8	<u>Cytogenetic Technologists</u> 🌟	2,759	SOC4
9	<u>Cytotechnologists</u> 🌟	2,759	SOC4
10	<u>Histotechnologists and Histologic Technicians</u> 🌟	2,759	SOC4
11	<u>Medical and Clinical Laboratory Technologists</u> 🌟	2,759	O*NET
12	<u>Medical and Clinical Laboratory Technicians</u> 🌟	2,586	O*NET
13	<u>Health Technologists and Technicians, All Other</u> 🌟	2,346	SOC4
14	<u>Neurodiagnostic Technologists</u> 🌟	2,346	O*NET

Rank	Occupation	2016 Estimated Employment	*Related By
15	<u>Radiologic Technicians</u> 🌟	2,346	O*NET
16	<u>Endoscopy Technicians</u> 🌟	2,255	O*NET
17	<u>Surgical Technologists</u> 🌟	2,124	O*NET
18	<u>Dental Hygienists</u> 🌟	1,942	O*NET
19	<u>Psychiatric Technicians</u> 🌟	1,263	SOC4
20	<u>Opticians, Dispensing</u> 🌟	1,243	SOC4
21	<u>Veterinary Technologists and Technicians</u> 🌟	1,085	O*NET
22	Diagnostic Medical Sonographers 🌟	971	SOC4
23	<u>Cardiovascular Technologists and Technicians</u> 🌟	957	O*NET
24	<u>Dietetic Technicians</u>	538	SOC4
25	<u>Respiratory Therapy Technicians</u>	519	O*NET
26	<u>Nuclear Medicine Technologists</u> 🌟	439	O*NET
27	<u>Radiation Therapists</u> 🌟	407	O*NET
28	<u>Respiratory Therapists</u> 🌟	188	O*NET
29	<u>Orthotists and Prosthetists</u> 🌟	94	SOC4
30	<u>Medical Appliance Technicians</u> 🌟	45	O*NET
*	<u>Emergency Medical Technicians and Paramedics</u> 🌟	Confidential	O*NET

🌟 BRIGHT OUTLOOK NATIONALLY

* 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.

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

Projected Annual Openings

This section shows the long term projected annual openings for Diagnostic Medical Sonographers in Louisiana from 2016 to 2026.

Occupation	Total Annual Average Openings	Annual Average Openings Due to Growth	Annual Average Openings Due to Replacement
Diagnostic Medical Sonographers	N/A	N/A	N/A
Healthcare Practitioners and Technical	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 Diagnostic Medical Sonographers in Louisiana by regional labor market area from 2016 to 2026.

Rank	Area	Total Annual Average Openings	
1	<u>1st Regional Labor Market Area, New Orleans</u>	N/A	There is no total annual average openings data available for Diagnostic Medical Sonographers in Louisiana.
2	<u>2nd Regional Labor Market Area, Baton Rouge</u>	N/A	
3	<u>3rd Regional Labor Market Area, Houma</u>	N/A	
4	<u>4th Regional Labor Market Area, Lafayette</u>	N/A	
5	<u>5th Regional Labor Market Area, Lake Charles</u>	N/A	
6	<u>6th Regional Labor Market Area, Alexandria</u>	N/A	
7	<u>7th Regional Labor Market Area, Shreveport</u>	N/A	
8	<u>8th Regional Labor Market Area, Monroe</u>	N/A	

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 Diagnostic Medical Sonographers from 2016 to 2026.

Rank	Occupation	Total Annual Average Openings	*Related By
1	<u>Acute Care Nurses</u> 🌟	N/A	O*NET
2	<u>Cardiovascular Technologists and Technicians</u> 🌟	N/A	O*NET
3	<u>Computer User Support Specialists</u> 🌟	N/A	O*NET
4	<u>Cytogenetic Technologists</u> 🌟	N/A	SOC4
5	<u>Cytotechnologists</u> 🌟	N/A	SOC4
6	<u>Dental Hygienists</u> 🌟	N/A	O*NET
7	Diagnostic Medical Sonographers🌟	N/A	SOC4
8	<u>Dietetic Technicians</u>	N/A	SOC4
9	<u>Endoscopy Technicians</u> 🌟	N/A	O*NET
10	<u>Health Technologists and Technicians, All Other</u> 🌟	N/A	SOC4
11	<u>Histotechnologists and Histologic Technicians</u> 🌟	N/A	SOC4
12	<u>Licensed Practical and Licensed Vocational Nurses</u> 🌟	N/A	O*NET
13	<u>Medical and Clinical Laboratory Technicians</u> 🌟	N/A	O*NET
14	<u>Medical and Clinical Laboratory Technologists</u> 🌟	N/A	O*NET
15	<u>Medical Appliance Technicians</u> 🌟	N/A	O*NET

Rank	Occupation	Total Annual Average Openings	*Related By
16	Medical Records and Health Information Technicians 	N/A	SOC4
17	Neurodiagnostic Technologists 	N/A	O*NET
18	Nuclear Medicine Technologists 	N/A	O*NET
19	Opticians, Dispensing 	N/A	SOC4
20	Orthotists and Prosthetists 	N/A	SOC4
21	Pharmacy Technicians 	N/A	SOC4
22	Psychiatric Technicians 	N/A	SOC4
23	Radiation Therapists 	N/A	O*NET
24	Radiologic Technicians 	N/A	O*NET
25	Radiologic Technologists 	N/A	O*NET
26	Registered Nurses 	N/A	O*NET
27	Respiratory Therapists 	N/A	O*NET
28	Respiratory Therapy Technicians	N/A	O*NET
29	Surgical Technologists 	N/A	O*NET
30	Veterinary Technologists and Technicians 	N/A	O*NET
*	Emergency Medical Technicians and Paramedics 	Confidential	O*NET

 BRIGHT OUTLOOK NATIONALLY

* Rank is suppressed for confidential data.

Source: Occupational Employment Projections

Industries by Employment

This section shows the industries that employed the highest number of Diagnostic Medical Sonographers in Louisiana in 2016.

Rank	Industry Title	Estimated Employment	Percent of Total Employment
1	Hospitals	481	49.54%
2	Ambulatory Health Care Services	480	49.43%
*	Self-Employed and Unpaid Family Workers, Primary Job	Confidential	Confidential
*	Professional, Scientific, and Technical Services	Confidential	Confidential
*	Administrative and Support Services	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 Diagnostic Medical Sonographers in order of importance. Click on a link in the Work Activity column to view more detailed information.

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Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<u>Assisting and Caring for Others</u>	Providing personal assistance, medical attention, emotional support, or other personal care to others such as coworkers, customers, or patients.	82
<u>Getting Information</u>	Observing, receiving, and otherwise obtaining information from all relevant sources.	81
<u>Updating and Using Relevant Knowledge</u>	Keeping up-to-date technically and applying new knowledge to your job.	79
<u>Documenting/Recording Information</u>	Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.	78
<u>Communicating with Supervisors, Peers, or Subordinates</u>	Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.	77
<u>Interacting With Computers</u>	Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.	75
<u>Performing for or Working Directly with the Public</u>	Performing for people or dealing directly with the public. This includes serving customers in restaurants and stores, and receiving clients or guests.	73
<u>Establishing and Maintaining Interpersonal Relationships</u>	Developing constructive and cooperative working relationships with others, and maintaining them over time.	71
<u>Interpreting the Meaning of Information for Others</u>	Translating or explaining what information means and how it can be used.	70
<u>Making Decisions and Solving Problems</u>	Analyzing information and evaluating results to choose the best solution and solve problems.	69
<u>Identifying Objects, Actions, and Events</u>	Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.	69
<u>Evaluating Information to Determine Compliance with Standards</u>	Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.	69
<u>Controlling Machines and Processes</u>	Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).	67
<u>Monitor Processes, Materials, or Surroundings</u>	Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.	67

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<u>Inspecting Equipment, Structures, or Material</u>	Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.	66
<u>Processing Information</u>	Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.	66
<u>Performing General Physical Activities</u>	Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.	65
<u>Analyzing Data or Information</u>	Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.	64
<u>Handling and Moving Objects</u>	Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.	60
<u>Organizing, Planning, and Prioritizing Work</u>	Developing specific goals and plans to prioritize, organize, and accomplish your work.	58
<u>Training and Teaching Others</u>	Identifying the educational needs of others, developing formal educational or training programs or classes, and teaching or instructing others.	58
<u>Scheduling Work and Activities</u>	Scheduling events, programs, and activities, as well as the work of others.	55
<u>Resolving Conflicts and Negotiating with Others</u>	Handling complaints, settling disputes, and resolving grievances and conflicts, or otherwise negotiating with others.	53
<u>Communicating with Persons Outside Organization</u>	Communicating with people outside the organization, representing the organization to customers, the public, government, and other external sources. This information can be exchanged in person, in writing, or by telephone or e-mail.	53
<u>Judging the Qualities of Things, Services, or People</u>	Assessing the value, importance, or quality of things or people.	52
<u>Developing and Building Teams</u>	Encouraging and building mutual trust, respect, and cooperation among team members.	52
<u>Coordinating the Work and Activities of Others</u>	Getting members of a group to work together to accomplish tasks.	51
<u>Thinking Creatively</u>	Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.	51

Work Activity	Work Activity Description	Rank by Importance (Out of 100)
<u>Estimating the Quantifiable Characteristics of Products, Events, or Information</u>	Estimating sizes, distances, and quantities; or determining time, costs, resources, or materials needed to perform a work activity.	50
<u>Coaching and Developing Others</u>	Identifying the developmental needs of others and coaching, mentoring, or otherwise helping others to improve their knowledge or skills.	50
<u>Performing Administrative Activities</u>	Performing day-to-day administrative tasks such as maintaining information files and processing paperwork.	50
<u>Guiding, Directing, and Motivating Subordinates</u>	Providing guidance and direction to subordinates, including setting performance standards and monitoring performance.	45
<u>Repairing and Maintaining Electronic Equipment</u>	Servicing, repairing, calibrating, regulating, fine-tuning, or testing machines, devices, and equipment that operate primarily on the basis of electrical or electronic (not mechanical) principles.	43
<u>Provide Consultation and Advice to Others</u>	Providing guidance and expert advice to management or other groups on technical, systems-, or process-related topics.	43
<u>Repairing and Maintaining Mechanical Equipment</u>	Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.	41
<u>Developing Objectives and Strategies</u>	Establishing long-range objectives and specifying the strategies and actions to achieve them.	40
<u>Operating Vehicles, Mechanized Devices, or Equipment</u>	Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.	32
<u>Monitoring and Controlling Resources</u>	Monitoring and controlling resources and overseeing the spending of money.	29
<u>Selling or Influencing Others</u>	Convincing others to buy merchandise/goods or to otherwise change their minds or actions.	27
<u>Staffing Organizational Units</u>	Recruiting, interviewing, selecting, hiring, and promoting employees in an organization.	21
<u>Drafting, Laying Out, and Specifying Technical Devices, Parts, and Equipment</u>	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.	20

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

Tasks

This section shows the most common tasks required by Diagnostic Medical Sonographers 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)
Observe screen during scan to ensure that image produced is satisfactory for diagnostic purposes, making adjustments to equipment as required.	Core	97
Observe and care for patients throughout examinations to ensure their safety and comfort.	Core	96
Provide sonogram and oral or written summary of technical findings to physician for use in medical diagnosis.	Core	96
Operate ultrasound equipment to produce and record images of the motion, shape, and composition of blood, organs, tissues, or bodily masses, such as fluid accumulations.	Core	96
Select appropriate equipment settings and adjust patient positions to obtain the best sites and angles.	Core	96
Decide which images to include, looking for differences between healthy and pathological areas.	Core	96
Prepare patient for exam by explaining procedure, transferring patient to ultrasound table, scrubbing skin and applying gel, and positioning patient properly.	Core	94
Determine whether scope of exam should be extended, based on findings.	Core	91
Obtain and record accurate patient history, including prior test results or information from physical examinations.	Core	91
Maintain records that include patient information, sonographs and interpretations, files of correspondence, publications and regulations, or quality assurance records, such as pathology, biopsy, or post-operative reports.	Core	90
Record and store suitable images, using camera unit connected to the ultrasound equipment.	Core	89
Coordinate work with physicians or other healthcare team members, including providing assistance during invasive procedures.	Core	85
Clean, check, and maintain sonographic equipment, submitting maintenance requests or performing minor repairs as necessary.	Core	82
Perform clerical duties, such as scheduling exams or special procedures, keeping records, or archiving computerized images.	Core	77

Tasks	Task Description	Rank by Importance (Out of 100)
<u>Perform legal and ethical duties, including preparing safety or accident reports, obtaining written consent from patient to perform invasive procedures, or reporting symptoms of abuse or neglect.</u>	Core	75
<u>Supervise or train students or other medical sonographers.</u>	Core	74
<u>Perform medical procedures, such as administering oxygen, inserting and removing airways, taking vital signs, or giving emergency treatment, such as first aid or cardiopulmonary resuscitation (CPR).</u>	Core	73
<u>Maintain stock and supplies, preparing supplies for special examinations and ordering supplies when necessary.</u>	Core	73
<u>Process and code film from procedures and complete appropriate documentation.</u>	Supplemental	87
<u>Load and unload film cassettes used to record images from procedures.</u>	Supplemental	61

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

Diagnostic Medical Sonographers Diagnostic imaging workers may perform procedures at patients' bedsides.

Cardiovascular technologists and technicians held about 55,000 jobs in 2016. The largest employers of cardiovascular technologists and technicians were as follows:

- Hospitals; state, local, and private 79%
- Offices of physicians 13
- Medical and diagnostic laboratories 2
- Outpatient care centers 2

Diagnostic medical sonographers held about 67,300 jobs in 2016. The largest employers of diagnostic medical sonographers were as follows:

- Hospitals; state, local, and private 60%
- Offices of physicians 21
- Medical and diagnostic laboratories 11
- Outpatient care centers 4

Diagnostic medical sonographers and cardiovascular technologists and technicians, including vascular technologists, complete most of their work at diagnostic imaging machines in dimly lit rooms. They may perform procedures at patients' bedsides. Diagnostic imaging workers may be on their feet for long periods and may need to lift or turn patients who are ill or disabled.

Work Schedules

Most diagnostic imaging workers work full time. Some may work evenings, weekends, or overnight because they work in facilities that are always open.

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

Typical Work Conditions

This section shows the most common work conditions required by Diagnostic Medical Sonographers in order of importance.

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
Importance of Being Exact or Accurate	How important is being very exact or highly accurate in performing this job?	97
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?	96
Physical Proximity	To what extent does this job require the worker to perform job tasks in close physical proximity to other people?	95
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?	95
Spend Time Making Repetitive Motions	How much does this job require making repetitive motions?	93
Indoors, Environmentally Controlled	How often does this job require working indoors in environmentally controlled conditions?	93
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?	92
Telephone	How often do you have telephone conversations in this job?	87
Exposed to Disease or Infections	How often does this job require exposure to disease/infections?	87
Work With Work Group or Team	How important is it to work with others in a group or team in this job?	86
Face-to-Face Discussions	How often do you have to have face-to-face discussions with individuals or teams in this job?	83
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?	82
Deal With External Customers	How important is it to work with external customers or the public in this job?	81
Freedom to Make Decisions	How much decision making freedom, without supervision, does the job offer?	80

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?	76
Time Pressure	How often does this job require the worker to meet strict deadlines?	76
Wear Common Protective or Safety Equipment such as Safety Shoes, Glasses, Gloves, Hearing Protection, Hard Hats, or Life Jackets	How much does this job require wearing common protective or safety equipment such as safety shoes, glasses, gloves, hard hats or life jackets?	75
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?	70
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?	65
Spend Time Bending or Twisting the Body	How much does this job require bending or twisting your body?	63
Consequence of Error	How serious would the result usually be if the worker made a mistake that was not readily correctable?	63
Coordinate or Lead Others	How important is it to coordinate or lead others in accomplishing work activities in this job?	61
Electronic Mail	How often do you use electronic mail in this job?	60
Spend Time Sitting	How much does this job require sitting?	59
Responsible for Others' Health and Safety	How much responsibility is there for the health and safety of others in this job?	55
Spend Time Standing	How much does this job require standing?	51
Level of Competition	To what extent does this job require the worker to compete or to be aware of competitive pressures?	50
Frequency of Conflict Situations	How often are there conflict situations the employee has to face in this job?	49
Cramped Work Space, Awkward Positions	How often does this job require working in cramped work spaces that requires getting into awkward positions?	46
Spend Time Walking and Running	How much does this job require walking and running?	46

Work Condition	Work Condition Description	Rank by Importance (Out of 100)
Responsibility for Outcomes and Results	How responsible is the worker for work outcomes and results of other workers?	43
Letters and Memos	How often does the job require written letters and memos?	42
Exposed to Contaminants	How often does this job require working exposed to contaminants (such as pollutants, gases, dust or odors)?	41
Exposed to Radiation	How often does this job require exposure to radiation?	33
Degree of Automation	How automated is the job?	26
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?	23
Wear Specialized Protective or Safety Equipment such as Breathing Apparatus, Safety Harness, Full Protection Suits, or Radiation Protection	How much does this job require wearing specialized protective or safety equipment such as breathing apparatus, safety harness, full protection suits, or radiation protection?	21
Deal With Physically Aggressive People	How frequently does this job require the worker to deal with physical aggression of violent individuals?	21

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

Work Values and Needs

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

Work Value	Work Value Description	Rank By Extent (Out of 100)
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.	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.	78
Achievement	Occupations that satisfy this work value are results oriented and allow employees to use their strongest abilities, giving them a feeling of accomplishment. Corresponding needs are Ability Utilization and Achievement.	67

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

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

Typical Tools

This section shows common tools used by Diagnostic Medical Sonographers.

Detailed Tool	Tool Group
Sphygmomanometers	Blood pressure cuff kits
Plethysmographs	Body plethysmographs
Cardiac ultrasound equipment	Cardiac ultrasound or doppler or echo units or cardioscopes
Desktop computers	Desktop computers
Personal protective clothing	Hazardous material protective apparel
Venipuncture needles	Hypodermic needle
Intravenous IV supplies	Intravenous tubing with catheter administration kits
Lancets	Lancets
Picture archiving and communication systems PACS	Medical picture archiving computer systems PACS
Immobilization and positioning devices	Medical radiological positioning aids for general radiological use
Sandbags	Medical radiological positioning aids for general radiological use
Lead barriers	Medical radiological shielding freestanding or portable screens
Ultrasound monitors	Medical ultrasound or doppler or echo monitors
Ultrasound video equipment	Medical ultrasound or doppler or echo monitors
Medical ultrasound printers	Medical ultrasound or doppler or echo printers
3D sonography equipment	Medical ultrasound or doppler or echo three dimensional components
High frequency transducers	Medical ultrasound or doppler or echo transducers or accessories
Transducers	Medical ultrasound or doppler or echo transducers or accessories

Detailed Tool	Tool Group
A-Mode ultrasound machines	Medical ultrasound or doppler or pulse echo or echography units for general diagnostic use
Color Doppler ultrasound equipment	Medical ultrasound or doppler or pulse echo or echography units for general diagnostic use
Continuous-wave ultrasound equipment	Medical ultrasound or doppler or pulse echo or echography units for general diagnostic use
M-mode ultrasound machines	Medical ultrasound or doppler or pulse echo or echography units for general diagnostic use
Pulsed-wave Doppler ultrasound units	Medical ultrasound or doppler or pulse echo or echography units for general diagnostic use
Two-dimensional doppler ultrasound equipment	Medical ultrasound or doppler or pulse echo or echography units for general diagnostic use
X ray beam restriction devices	Medical x ray apparatus filters
Notebook computers	Notebook computers
Personal computers	Personal computers
Safety gloves	Protective gloves
Safety glasses	Safety glasses
Tablet computers	Tablet computers
Tourniquets	Tourniquets
Evacuated blood collection tubes	Vacuum blood collection tubes or containers

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 Diagnostic Medical Sonographers.

Detailed Technology	Technology Group
Calendar and scheduling software	Calendar and scheduling software
Database software	Data base user interface and query software
Email software	Electronic mail software
Medical procedure coding software	Medical software
MEDITECH software	Medical software
Patient medical record software	Medical software
Microsoft Office	Office suite software
Microsoft Excel	Spreadsheet software
Spreadsheet software	Spreadsheet software
Word processing software	Word processing software

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

Licensing Information

This section shows licenses that may be required for Diagnostic Medical Sonographers in Louisiana. Click on the link for the occupation you're interested in to view more information on how to attain a license.

Source: Louisiana Workforce Commission, Labor Market Information Program

Typical Knowledge Categories

This section shows the most common knowledge categories required by Diagnostic Medical Sonographers 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)
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.	89
English Language	Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.	77
Physics	Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub- atomic structures and processes.	68
Medicine and Dentistry	Knowledge of the information and techniques needed to diagnose and treat human injuries, diseases, and deformities. This includes symptoms, treatment alternatives, drug properties and interactions, and preventive health-care measures.	65
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.	58
Computers and Electronics	Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.	56
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.	56
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.	49

Knowledge Category	Knowledge Category Description	Rank by Importance (Out of 100)
<u>Mathematics</u>	Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.	47
<u>Biology.</u>	Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.	46
<u>Therapy and Counseling</u>	Knowledge of principles, methods, and procedures for diagnosis, treatment, and rehabilitation of physical and mental dysfunctions, and for career counseling and guidance.	38
<u>Administration and Management</u>	Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.	37
<u>Personnel and Human Resources</u>	Knowledge of principles and procedures for personnel recruitment, selection, training, compensation and benefits, labor relations and negotiation, and personnel information systems.	37
<u>Communications and Media</u>	Knowledge of media production, communication, and dissemination techniques and methods. This includes alternative ways to inform and entertain via written, oral, and visual media.	36
<u>Mechanical</u>	Knowledge of machines and tools, including their designs, uses, repair, and maintenance.	33
<u>Sociology and Anthropology.</u>	Knowledge of group behavior and dynamics, societal trends and influences, human migrations, ethnicity, cultures and their history and origins.	33
<u>Philosophy and Theology.</u>	Knowledge of different philosophical systems and religions. This includes their basic principles, values, ethics, ways of thinking, customs, practices, and their impact on human culture.	31
<u>Chemistry.</u>	Knowledge of the chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo. This includes uses of chemicals and their interactions, danger signs, production techniques, and disposal methods.	30
<u>Engineering and Technology.</u>	Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.	30

Knowledge Category	Knowledge Category Description	Rank by Importance (Out of 100)
Foreign Language	Knowledge of the structure and content of a foreign (non-English) language including the meaning and spelling of words, rules of composition and grammar, and pronunciation.	30
Telecommunications	Knowledge of transmission, broadcasting, switching, control, and operation of telecommunications systems.	30
Law and Government	Knowledge of laws, legal codes, court procedures, precedents, government regulations, executive orders, agency rules, and the democratic political process.	29

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 Diagnostic Medical Sonographers 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)
Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.	75
Near Vision	The ability to see details at close range (within a few feet of the observer).	72
Oral Expression	The ability to communicate information and ideas in speaking so others will understand.	72
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.	72
Written Comprehension	The ability to read and understand information and ideas presented in writing.	72
Written Expression	The ability to communicate information and ideas in writing so others will understand.	69
Speech Clarity	The ability to speak clearly so others can understand you.	66
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.	63
Control Precision	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	63
Inductive Reasoning	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	63
Speech Recognition	The ability to identify and understand the speech of another person.	63

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
<u>Deductive Reasoning</u>	The ability to apply general rules to specific problems to produce answers that make sense.	60
<u>Flexibility of Closure</u>	The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.	60
<u>Category Flexibility</u>	The ability to generate or use different sets of rules for combining or grouping things in different ways.	53
<u>Information Ordering</u>	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).	53
<u>Finger Dexterity</u>	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.	50
<u>Fluency of Ideas</u>	The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness, or creativity).	50
<u>Manual Dexterity</u>	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.	50
<u>Multilimb Coordination</u>	The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.	50
<u>Originality</u>	The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem.	50
<u>Perceptual Speed</u>	The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.	50
<u>Selective Attention</u>	The ability to concentrate on a task over a period of time without being distracted.	50
<u>Speed of Closure</u>	The ability to quickly make sense of, combine, and organize information into meaningful patterns.	50
<u>Visualization</u>	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	50
<u>Far Vision</u>	The ability to see details at a distance.	47
<u>Hearing Sensitivity</u>	The ability to detect or tell the differences between sounds that vary in pitch and loudness.	47
<u>Time Sharing</u>	The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).	47

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
<u>Visual Color Discrimination</u>	The ability to match or detect differences between colors, including shades of color and brightness.	47
<u>Extent Flexibility</u>	The ability to bend, stretch, twist, or reach with your body, arms, and/or legs.	44
<u>Trunk Strength</u>	The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without 'giving out' or fatiguing.	44
<u>Depth Perception</u>	The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.	41
<u>Auditory Attention</u>	The ability to focus on a single source of sound in the presence of other distracting sounds.	38
<u>Response Orientation</u>	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.	38
<u>Memorization</u>	The ability to remember information such as words, numbers, pictures, and procedures.	35
<u>Stamina</u>	The ability to exert yourself physically over long periods of time without getting winded or out of breath.	35
<u>Gross Body Coordination</u>	The ability to coordinate the movement of your arms, legs, and torso together when the whole body is in motion.	31
<u>Mathematical Reasoning</u>	The ability to choose the right mathematical methods or formulas to solve a problem.	31
<u>Reaction Time</u>	The ability to quickly respond (with the hand, finger, or foot) to a signal (sound, light, picture) when it appears.	31
<u>Static Strength</u>	The ability to exert maximum muscle force to lift, push, pull, or carry objects.	31
<u>Dynamic Strength</u>	The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.	28
<u>Number Facility</u>	The ability to add, subtract, multiply, or divide quickly and correctly.	28
<u>Rate Control</u>	The ability to time your movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object or scene.	28
<u>Wrist-Finger Speed</u>	The ability to make fast, simple, repeated movements of the fingers, hands, and wrists.	25
<u>Gross Body Equilibrium</u>	The ability to keep or regain your body balance or stay upright when in an unstable position.	22
<u>Speed of Limb Movement</u>	The ability to quickly move the arms and legs.	22

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

Typical Work Interests

This section shows the results of a national survey listing the most common work interests for Diagnostic Medical Sonographers in order of importance.

Work Interest	Work Interest Description	Rank by Importance (Out of 100)
Investigative	Investigative occupations frequently involve working with ideas, and require an extensive amount of thinking. These occupations can involve searching for facts and figuring out problems mentally.	83
Social	Social occupations frequently involve working with, communicating with, and teaching people. These occupations often involve helping or providing service to others.	78
Realistic	Realistic occupations frequently involve work activities that include practical, hands-on problems and solutions. They often deal with plants, animals, and real-world materials like wood, tools, and machinery. Many of the occupations require working outside, and do not involve a lot of paperwork or working closely with others.	72
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.	39
Enterprising	Enterprising occupations frequently involve starting up and carrying out projects. These occupations can involve leading people and making many decisions. Sometimes they require risk taking and often deal with business.	28

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

Typical Work Styles

This section shows the most common work styles required by Diagnostic Medical Sonographers 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)
Dependability	Job requires being reliable, responsible, and dependable, and fulfilling obligations.	96
Attention to Detail	Job requires being careful about detail and thorough in completing work tasks.	96
Integrity	Job requires being honest and ethical.	93
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.	93

Work Style	Work Style Description	Rank by Importance (Out of 100)
Concern for Others	Job requires being sensitive to others' needs and feelings and being understanding and helpful on the job.	91
Cooperation	Job requires being pleasant with others on the job and displaying a good-natured, cooperative attitude.	91
Stress Tolerance	Job requires accepting criticism and dealing calmly and effectively with high stress situations.	90
Self Control	Job requires maintaining composure, keeping emotions in check, controlling anger, and avoiding aggressive behavior, even in very difficult situations.	89
Initiative	Job requires a willingness to take on responsibilities and challenges.	86
Adaptability/Flexibility	Job requires being open to change (positive or negative) and to considerable variety in the workplace.	85
Achievement/Effort	Job requires establishing and maintaining personally challenging achievement goals and exerting effort toward mastering tasks.	82
Persistence	Job requires persistence in the face of obstacles.	79
Social Orientation	Job requires preferring to work with others rather than alone, and being personally connected with others on the job.	79
Analytical Thinking	Job requires analyzing information and using logic to address work-related issues and problems.	76
Leadership	Job requires a willingness to lead, take charge, and offer opinions and direction.	72
Innovation	Job requires creativity and alternative thinking to develop new ideas for and answers to work-related problems.	66

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Related Occupations

This section shows a list of occupations related to Diagnostic Medical Sonographers. Click an occupation title to see more information about that occupation.

Rank	Related Occupations	Duties	*Related By
1	Cytogenetic Technologists 🌟	Analyze chromosomes found in biological specimens such as amniotic fluids, bone marrow, and blood to aid in the study, diagnosis, or treatment of genetic diseases.	SOC4
2	Cytotechnologists 🌟	Stain, mount, and study cells to detect evidence of cancer, hormonal abnormalities, and other pathological conditions following established standards and practices.	SOC4

Rank	Related Occupations	Duties	*Related By
3	<u>Dietetic Technicians</u>	Assist in the provision of food service and nutritional programs, under the supervision of a dietitian. May plan and produce meals based on established guidelines, teach principles of food and nutrition, or counsel individuals.	SOC4
4	<u>Health Technologists and Technicians, All Other</u> 🌟	All health technologists and technicians not listed separately.	SOC4
5	<u>Histotechnologists and Histologic Technicians</u> 🌟	Prepare histologic slides from tissue sections for microscopic examination and diagnosis by pathologists. May assist in research studies.	SOC4
6	<u>Medical Records and Health Information Technicians</u> 🌟	Compile, process, and maintain medical records of hospital and clinic patients in a manner consistent with medical, administrative, ethical, legal, and regulatory requirements of the health care system. Process, maintain, compile, and report patient information for health requirements and standards in a manner consistent with the healthcare industry's numerical coding system.	SOC4
7	<u>Opticians, Dispensing</u> 🌟	Design, measure, fit, and adapt lenses and frames for client according to written optical prescription or specification. Assist client with inserting, removing, and caring for contact lenses. Assist client with selecting frames. Measure customer for size of eyeglasses and coordinate frames with facial and eye measurements and optical prescription. Prepare work order for optical laboratory containing instructions for grinding and mounting lenses in frames. Verify exactness of finished lens spectacles. Adjust frame and lens position to fit client. May shape or reshape frames. Includes contact lens opticians.	SOC4
8	<u>Orthotists and Prosthetists</u> 🌟	Design, measure, fit, and adapt orthopedic braces, appliances or prostheses, such as limbs or facial parts for patients with disabling conditions.	SOC4
9	<u>Pharmacy Technicians</u> 🌟	Prepare medications under the direction of a pharmacist. May measure, mix, count out, label, and record amounts and dosages of medications according to prescription orders.	SOC4
10	<u>Psychiatric Technicians</u> 🌟	Care for individuals with mental or emotional conditions or disabilities, following the instructions of physicians or other health practitioners. Monitor patients' physical and emotional well-being and report to medical staff. May participate in rehabilitation and treatment programs, help with personal hygiene, and administer oral or injectable medications.	SOC4
11	<u>Acute Care Nurses</u> 🌟	Provide advanced nursing care for patients with acute conditions such as heart attacks, respiratory distress syndrome, or shock. May care for pre- and post-operative patients or perform advanced, invasive diagnostic or therapeutic procedures.	O*NET

Rank	Related Occupations	Duties	*Related By
12	<u>Cardiovascular Technologists and Technicians</u> ♦	Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic purposes. May conduct or assist in electrocardiograms, cardiac catheterizations, pulmonary functions, lung capacity, and similar tests. Includes vascular technologists.	O*NET
13	<u>Dental Hygienists</u> ♦	Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop x rays, or apply fluoride or sealants.	O*NET
14	<u>Endoscopy Technicians</u> ♦	Maintain a sterile field to provide support for physicians and nurses during endoscopy procedures. Prepare and maintain instruments and equipment. May obtain specimens.	O*NET
15	<u>Licensed Practical and Licensed Vocational Nurses</u> ♦	Care for ill, injured, or convalescing patients or persons with disabilities in hospitals, nursing homes, clinics, private homes, group homes, and similar institutions. May work under the supervision of a registered nurse. Licensing required.	O*NET
16	<u>Medical and Clinical Laboratory Technicians</u> ♦	Perform routine medical laboratory tests for the diagnosis, treatment, and prevention of disease. May work under the supervision of a medical technologist.	O*NET
17	<u>Medical and Clinical Laboratory Technologists</u> ♦	Perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. May train or supervise staff.	O*NET
18	<u>Neurodiagnostic Technologists</u> ♦	Conduct electroneurodiagnostic (END) tests such as electroencephalograms, evoked potentials, polysomnograms, or electronystagmograms. May perform nerve conduction studies.	O*NET
19	<u>Nuclear Medicine Technologists</u> ♦	Prepare, administer, and measure radioactive isotopes in therapeutic, diagnostic, and tracer studies using a variety of radioisotope equipment. Prepare stock solutions of radioactive materials and calculate doses to be administered by radiologists. Subject patients to radiation. Execute blood volume, red cell survival, and fat absorption studies following standard laboratory techniques.	O*NET
20	<u>Radiation Therapists</u> ♦	Provide radiation therapy to patients as prescribed by a radiologist according to established practices and standards. Duties may include reviewing prescription and diagnosis; acting as liaison with physician and supportive care personnel; preparing equipment, such as immobilization, treatment, and protection devices; and maintaining records, reports, and files. May assist in dosimetry procedures and tumor localization.	O*NET
21	<u>Radiologic Technicians</u> ♦	Maintain and use equipment and supplies necessary to demonstrate portions of the human body on x-ray film or fluoroscopic screen for diagnostic purposes.	O*NET
22	<u>Radiologic Technologists</u> ♦	Take x rays and CAT scans or administer nonradioactive materials into patient's blood stream for diagnostic purposes. Includes technologists who specialize in other scanning modalities.	O*NET

Rank	Related Occupations	Duties	*Related By
23	<u>Registered Nurses</u> ✨	Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent, or disabled patients. May advise patients on health maintenance and disease prevention or provide case management. Licensing or registration required.	O*NET
24	<u>Respiratory Therapists</u> ✨	Assess, treat, and care for patients with breathing disorders. Assume primary responsibility for all respiratory care modalities, including the supervision of respiratory therapy technicians. Initiate and conduct therapeutic procedures; maintain patient records; and select, assemble, check, and operate equipment.	O*NET
25	<u>Respiratory Therapy Technicians</u>	Provide respiratory care under the direction of respiratory therapists and physicians.	O*NET
26	<u>Surgical Technologists</u> ✨	Assist in operations, under the supervision of surgeons, registered nurses, or other surgical personnel. May help set up operating room, prepare and transport patients for surgery, adjust lights and equipment, pass instruments and other supplies to surgeons and surgeon's assistants, hold retractors, cut sutures, and help count sponges, needles, supplies, and instruments.	O*NET
27	<u>Veterinary Technologists and Technicians</u> ✨	Perform medical tests in a laboratory environment for use in the treatment and diagnosis of diseases in animals. Prepare vaccines and serums for prevention of diseases. Prepare tissue samples, take blood samples, and execute laboratory tests, such as urinalysis and blood counts. Clean and sterilize instruments and materials and maintain equipment and machines. May assist a veterinarian during surgery.	O*NET
28	<u>Computer User Support Specialists</u> ✨	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
29	<u>Emergency Medical Technicians and Paramedics</u> ✨	Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.	O*NET
30	<u>Medical Appliance Technicians</u> ✨	Construct, fit, maintain, or repair medical supportive devices, such as braces, orthotics and prosthetic devices, joints, arch supports, and other surgical and medical appliances.	O*NET

🌟 BRIGHT OUTLOOK NATIONALLY

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

Career Ladder

This section shows the top 10 occupations and the corresponding individuals in the workforce system who were previously Diagnostic Medical Sonographers and have changed their occupation

over the last 5 years.

Occupation Title	Number of Individuals that Moved	Percentage of Individuals that Moved
<u>Cardiovascular Technologists and Technicians</u> 🌟	11	42.31%
<u>Receptionists and Information Clerks</u> 🌟	3	11.54%
<u>Radiologic Technicians</u> 🌟	2	7.69%
<u>Medical Assistants</u> 🌟	2	7.69%
<u>Personal Care Aides</u> 🌟	2	7.69%
<u>Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products</u> 🌟	2	7.69%
<u>Health Technologists and Technicians, All Other</u> 🌟	1	3.85%
<u>Magnetic Resonance Imaging Technologists</u> 🌟	1	3.85%
<u>Radiologic Technologists</u> 🌟	1	3.85%
<u>Registered Nurses</u> 🌟	1	3.85%

🌟 BRIGHT OUTLOOK NATIONALLY

Source: Individuals with active résumés in the workforce system.



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