American Registry of Magnetic Resonance Imaging Technologists

Magnetic Resonance Imaging Technologist (MRI) Examination Candidate Handbook

"The Gold Standard of MRI Technologist Certification"
"Because MRI is a Specialty"
"You are MRI when you are ARMRIT"

www.armrit.org

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About the ARMRIT: ‘THE MRI REGISTRY of MRI SPECIALISTS’

ARMRIT has always stressed the importance of well-trained and highly qualified Technologists for MRI.

The ARMRIT is the first and only certifying organization to:

1) Recognize MRI Technology as a distinct medical imaging specialty utilizing non-ionizing radiation.
2) Require MRI clinical experience and competency for eligibility.
3) Promote formal MRI education with MRI clinical training.
4) Recognize MRI schools that offer full-time educational program leading to a career in MRI.

The ARMRIT Board of Directors and Examination Committee includes MRI professionals such as, MRI Researchers, Physicists, MRI Technologists, Educators, and Legal Advisors.

- **American College of Radiology (ACR)** - MRI Accreditation Committee has recognized ARMRIT as an autonomous certifying body meeting the ACR accreditation requirements for MRI technologists. The Centers for Medicare and Medicaid Services (CMS) has selected the ACR, as a designated accrediting organization.

- **American Council on Education (ACE)**, Washington, DC. The MRI Technologist examination has been recommended for College-Level Credit.

- **Apprenticeship - USDOL**, ARMRIT allows graduates from U.S. Department of Labor (USDOL) Registered Apprenticeship programs to sit for their certification exam. Approved Registered Apprenticeship Program by the U.S. Department of Labor, Office of Apprenticeship, or a State Apprenticeship Agency recognized by the Office of Apprenticeship. Magnetic Resonance Imaging (MRI) Technologist O*NET Code: **29-2035.00** Rapids Code: **1115**

- **Centers for Medicare and Medicaid Services (CMS)** has established accreditation requirements for providers of advanced medical imaging mandated by the Medicare Improvements for Patients and Providers Act of 2008 (MIPPA). Providers must comply with CMS’ requirement that all providers of CT, MRI, PET and nuclear medicine exams be accredited by Jan. 1, 2012, in order to be reimbursed.

- **Institute for Credentialing Excellence (ICE)**, Washington, DC, ARMRIT is a member organization.

- **Intersocietal Accreditation Commission** includes ARMRIT as a recognized certifying body for MRI Technologists.

- **The Joint Commission** includes ARMRIT as a recognized certifying body for MRI Technologists.

- **Los Angeles County, CA, Department of Health Services** includes ARMRIT certification in the selection requirements for MRI Technologist positions in LA County Hospitals.

- **New Hampshire Board of Medical Imaging and Radiation Therapy** includes ARMRIT certification as a requirement to be eligible for a license to practice MRI Technology.

- **New Mexico Medical Imaging & Radiation Therapy Act Committee** includes ARMRIT certification as a requirement to be eligible for a license to practice MRI Technology.

- **North Dakota Medical Imaging & Radiation Therapy Board** includes ARMRIT certification as a requirement to be eligible for a License to practice MRI Technology.

- **Ohio Department of Health** includes ARMRIT as a recognized certifying body for MRI Technologists.

- **O*NET OnLine** a proud partner of the [americanjobcenter network] includes ARMRIT Certification. Magnetic Resonance Imaging (MRI) Technologist O*NET Code: **29-2035.00** Rapids Code: **1115**

- **Oregon Board of Medical Imaging Technology** includes ARMRIT certification as a requirement to be eligible for a Medical Imaging Technologist License to practice MRI Technology.

- **RadSite** includes ARMRIT as a recognized Certifying Organization for MRI Technologists.

- **Veterans Administration** ARMRIT is recognized and approved by the Medical Imaging Department which established the policy of reimbursing the associated application and examination fees of its members.

- **West Virginia Medical Imaging and Radiation Therapy Technology Board of Examiners** includes ARMRIT certification as a requirement to be eligible for a license to practice MRI Technology.
The American Registry of Magnetic Resonance Imaging Technologists - ARMRIT, a New York State Not-for-Profit corporation, tax exempt under Internal Revenue Code Section 501(c)(6), is a certifying organization which was founded in 1991 to provide certification to the thousands of MRI Technologists who had been trained on the job since MRI became available in 1983. As an International Certifying Body, ARMRIT certifies MRI technologists who have met its established criteria, and who work in MRI facilities at Hospitals and private non-hospital facilities. To date it has certified technologists in 46 states, Puerto Rico, Guam, Canada, Britain, and in Asia and the Middle East. ARMRIT has adopted the slogan - “Because MRI is a Specialty”.

Radiologic Science, in a strictly technical definition, has to do with the administration of ionizing radiation (X-Ray). MRI Technology has nothing to do with Radiologic Science. MRI Technology employs radio frequency transmission in a main magnetic field. The education and training of an MRI Technologist is distinct from any other medical imaging modality. The patient safety issues, especially, are specific to MRI which involves very strong magnetic fields that can affect medically implanted devices. This high magnetic field can cause ferromagnetic objects to become projectiles. Numerous MRI manufacturers, such as, Fonar Corporation, General Electric Healthcare, Bruker Biospin, Hitachi Medical Systems of America, Philips, Siemens, Varian and Toshiba Medical Systems, etc., produce different types of MRI units with differing designs, magnetic field strengths and imaging capabilities. These MRI scanners allow the patients to be imaged in various positions, for example, lying down on a table supine, sitting-up in a chair or standing, depending on the anatomical area of the body being imaged. The MRI Technologist must have a deep understanding of MR physics which involves electromagnetic fields and deciphering information from the hydrogen atoms in human body tissue. To insure high quality diagnostic images the MRI Technologist must have an extensive knowledge of the numerous and increasingly complex applications, protocols and parameters involved in quality imaging, patient care and safety techniques, the knowledge and ability to inject MRI specific contrast agents and most important, the safety requirements of patient care in the MRI suite.

MRI is an exceptionally safe imaging modality. No inherent adverse biological affect has ever been shown in MRI when performed correctly and carefully. MRI is a highly respected modality due to the flexibility and versatility of MRI Technology and modern medical preference to avoid ionizing radiation. MRI is however not without unique safety issues. Ferrous objects can fly into the magnet bore causing severe injury or death, radio-frequency burns could occur on the patient’s skin without proper supervision, high-decibel acoustic noise to damage hearing and gadolinium-based IV-contrast agents while much safer than iodine based contrast agents can be harmful in patients with compromised kidney function. The MRI technologist is trained in preventing, and responding to, all possible MRI hazards.

The most horrific injuries that have occurred in conjunction with MRI were due to ferrous oxygen tanks and other ferrous items being allowed near the MRI machine which were drawn into the magnet bore with incredible levels of force. There have in fact been a number of MRI related fatalities and other serious injuries all of which occurred when a technologist failed to protect his/her patients. Lack of proper MRI safety training is the cause. No MRI-related patient injury has ever been attributed to an ARMRIT-certified technologist.

MRI, like Ultrasonography uses no ‘Ionizing Radiation’, hence it does not necessarily fall under generally accepted regulations applicable to Radiography. Accordingly, there are no Federal regulations governing MRI Technologists specifically. The Centers for Medicare and Medicaid Services (CMS) has established accreditation requirements for providers of advanced medical imaging mandated by the Medicare Improvements for Patients and Providers Act of 2008 (MIPPA). Providers have been required to comply with the CMS requirement that all providers of CT, MRI, PET and Nuclear Medicine exams be accredited by a CMS recognized accrediting organization as of January 1, 2012 in order to be reimbursed. CMS has recognized four organizations as acceptable accrediting bodies: the American College of Radiology (ACR), the Inter-societal Accreditation Commission (IAC), The Joint Commission, and RadSite. ARMRIT is included in the MRI site accreditation standards of all four CMS recognized accrediting organizations.

O*NET Online: in the fall of 2009, ARMRIT was contacted by Traci Davis of RTI International, Raleigh, North Carolina informing announcing that the U.S. Department of Labor was sponsoring research of 400 new careers and that MRI Technology was one of them. Ms. Davis requested a national database of MRI Technologists with at least five (5) years of MRI Clinical experience to participate in the project to collect occupational information on the career of MRI Technologist. In September 2013, Ms. Davis provided the materials to the MRI Technologists explaining the O*NET Occupational Expert Data Collection Program for review. On September 26, 2013, ARMRIT agreed to the process.
In December 2013, Ms. Davis sent an email for distribution to the MRI Technologists in the database, which included an extensive Occupational Questionnaire. Upon submission of the questionnaires and completion of the Occupational Expert Data Collection Program, Magnetic Resonance Imaging (MRI) Technologist was described as a distinct and separate career by the U.S. Department of Labor with the O*NET Code: 29-2035.00 Rapids Code: 1115.

Apprenticeship-USDOL, ARMRIT allows graduates from U.S. Department of Labor (USDOL) Registered Apprenticeship programs to sit for their certification exam. Approved Registered Apprenticeship Program by the U.S. Department of Labor, Office of Apprenticeship, or a State Apprenticeship Agency recognized by the Office of Apprenticeship. Magnetic Resonance Imaging (MRI) Technologist O*NET Code: 29-2035.00, Rapids Code: 1115

On the State level, at this time, currently five States, New Hampshire, New Mexico, North Dakota, Oregon and West Virginia, have licensing requirements for MRI Technologists. ARMRIT certification is a criterion for licensure in all five states. In all other states, certification in the specialty is required or highly recommended however by insurance providers and required by most MRI employers.

ARMRIT is the first MRI Registry certifying body that required specific MRI education, in-depth clinical training, and hands-on experience. All applicants for Certification must meet the criteria to be eligible to sit for the ARMRIT certification examination, which are: 1) Graduate of an approved MRI Technologist Program; 2) Cross-Trained from an Allied Health Field with at least one-thousand (1000) hours of documented MRI Clinical experience; 3) Equivalency Clause, which is On-The-Job Training with at least four years of documented full-time clinical experience. Applicants who are qualified as Cross-Trained or the Equivalency Clause must be documented and signed off by a practicing board certified Physician. All eligible applicants must sit and successfully pass the ARMRIT MRI Technologist examination.

Once certified, ARMRIT Technologists are required to perform a minimum of 24 Continuing Medical Education credits specifically in the topic of MRI for every three-year renewal period. ARMRIT established an annual meeting and seminar, offering MRI Technologists twelve hours of lecture in MRI subjects by leaders in the MRI field nationally and internationally. For example, in 2010 Raymond Damadian, MD, inventor of the modern MRI scanner was the featured speaker at the ARMRIT Annual Meeting & Seminar.

The examination for ARMRIT Certification is administered by PSI Computer Testing. PSI has over 1000 testing sites nationally and internationally. Exams are graded and a hard copy of results is made available immediately to each candidate upon completion of the exam. PSI also provides evaluation of the on-going psychometric data used by the ARMRIT examination committee.

Moreover, the genesis of ARMRIT is to offer an alternative venue to qualified MRI Technologists who opted to train specifically in MRI technology without undergoing a Radiology/Radiography oriented background. Parenthetically, there are individuals who have radiation-phobia, whether justified or not, especially among women of child bearing age. That said ARMRIT does not preclude ARRT technologists to take the Registry certification exam, provided the ARMRIT criteria for said candidates are met. In fact a significant number of its current certificants are of ARRT background.

The Commission on Accreditation (COA) of the American Registry of Magnetic Resonance Imaging Technologists was created in response to a growing interest in the accreditation of MRI programs and in order to comply with federal and state regulatory requirements and of any national or international body. The voluntary application process assures that any MRI program accredited by the COA is committed to quality education. The sponsoring institution of the MRI program must formally apply to the COA for accreditation. Upon approval of the submitted application a site visit of the institution is scheduled. Accreditation is required for all campuses and at the conclusion of the accreditation period a renewal of accreditation is required.

Safety and Imaging Complexity Implications of MRI

Used properly and with care MRI is extremely safe. No inherent adverse biological effects from MRI have ever been shown. Moreover, MRI and Ultrasound are the only two imaging modalities deemed safe for imaging a human fetus. However, the MRI process poses significant dangers. Aside from rare and extreme allergic reactions from IV contrast agents in other modalities, MRI is the only modality that has resulted in the death of a patient at the time of the exam. MRI is the only imaging modality that can kill instantly.

The complexity of the MRI process is unparalleled in medical imaging. For example, the decision tree for selecting the Imaging Options in Radiography (X-Ray) is 4, Computed Tomography is approximately 6, Ultra-sonography including Echo is approximately 35, Nuclear Medicine including PET is approximately 6. Contrast these with the number of imaging parameters controlled by an MRI Technologist which is no less than 70.

There is no imaging modality like Magnetic Resonance Imaging. Like Ultrasonography, MRI utilizes a completely different branch of physics. There is no other imaging modality that is at the same time so safe and so potentially dangerous. It is understandable that the general public is not aware of the vast differences between MRI and every other imaging modality. What is unfortunate is that so many in the medical imaging field are equally unaware.
Magnetic Resonance Imaging as Compared to Other Imaging Modalities

Can there be any argument that Radiography and Ultrasonography (U/S) are two completely different imaging modalities? That they are both used in industrial and medical imaging is their only similarity. Nuclear Medicine (NM) and Radiography both share the same unit of energy: ionizing radiation. But again, here the similarities stop. Is it any surprise then that the fields of medical Ultrasonography and Nuclear Medicine have separate registries from medical radiography?

Computed Tomography (CT) is often thought to have much in common with Magnetic Resonance Imaging (MRI), yet nothing could be further from the truth. Other than having similar looking machines and consoles they have virtually nothing in common. In fact, CT has far more in common with X-ray Radiography. In the simplest sense, CT is just an X-ray tube that goes around in a circle while energized. MRI, like U/S and NM, is a completely different imaging modality. A comparison of MRI to other medical imaging modalities (see pages 7-12) is therefore useful.

In Conclusion:

1) MRI already plays a major role in modern medicine which will continue to grow with expanded clinical and research applications and advanced imaging techniques.

2) The patient safety need to reduce exposure to ionizing radiation will lead to the continuing growth of MRI and the reduction of future use of CT Scan.

3) At present, the vast majority of MRI Technologists, as much as 90%, in the Unites States were trained on the job. Since its inception, ARMRT has advocated for distinct MRI Technologist training verses MRI training as an addendum to Radiologic Science, (X-Ray) School or any other allied health education.

4) The essential elements to the growth of MRI are highly trained technologists and maintaining the high level of patient safety that properly trained technologists brings to MRI.

5) ARMRT continues to be the world leader in the certification of highly trained and certified MRI Technologists.

A Comparison of MRI to Other Medical Imaging Modalities.

RADIOGRAPHY (X-Ray)

Unit of Energy: Ionizing X-Radiation.


Approximate Exams/Year: Over 100 Million.

Main Applications: Bony detail, lung disease, 1st level screening, breast (mammography).

Short-term potential for patient harm: Low. Typically low radiation dose.

Long-term potential for patient harm: Medium-High. Cumulative radiation dose linked to increased cancer risk later in life.

Imaging Options for an X-Ray Tech (RT)

1) Peak kilovolts  2) Amperage  3) Distance  4) Time
A Comparison of MRI to Other Medical Imaging Modalities (continued)

### COMPUTED TOMOGRAPHY (CT)

Unit of Energy: Ionizing X-Radiation.

Approximate Exams/Year: 70 Million.


Main Applications: Bony detail, lung disease, 2\textsuperscript{nd}-3\textsuperscript{rd} level screening, brain, angiography, large bowel, 1\textsuperscript{st} level coronary screening.

Short-term potential for patient harm: Medium. Higher radiation dose than radiography. Misuse of system can lead to over radiating the patient.

Long-term potential for patient harm: Medium-High. Cumulative radiation dose shown to increase cancer risk later in life through over-use.

#### Imaging Options for an CT Tech (RT)

1) Kvp  2) Milli Amps  3) Time  4) Slice thickness  5) Pitch (table speed)  6) FOV

### ULTRASONOGRAPHY (U/S)

Unit of Energy: High Frequency Sound Energy.

Approximate exams/year: 90 Million.

Principle contrast mechanism: Tissue Sound (Reflection and Scattering) Absorption.


Short-term potential for patient harm: Extremely low. In extreme circumstances, cavitation and/or tissue heating may occur.

Long-term potential for patient harm: Extremely low. None shown to date.

#### Imaging Options for an Ultrasonographer

- Application Type Selection
- Transducer Type Selection
- Frequency Selection
- Imaging mode selection:
  - 2D Imaging
  - M-mode
  - Color Flow Doppler
  - PW or CW Doppler
  - Tissue Doppler
A Comparison of MRI to Other Medical Imaging Modalities (continued)

- Contrast Harmonics
- Strain Imaging
- 3D Imaging

- Imaging Window and Imaging Plane Selection
  - Abdominal (Sagittal, Coronal)
  - Pelvic (Sagittal, Coronal)
  - Cardiac: Parasternal (Long Axis, Short Axis), Apical (4-chamber, 5-chamber, 2-chamber, Long Axis), Subcostal (Long Axis, Short Axis, IVC), Suprasternal (Long Axis, Short Axis), Right Parasternal.
  - Vascular (Long Axis, Cross-section)
  - Ophthalmic, Musculoskeletal, Neurosonology (Sagittal, Coronal)

- Image Optimization Decisions:
  - Depth
  - Gain
  - Pre-processing
  - Post-processing
  - TGC
  - Persistence
  - Dynamic Range
  - Focus
  - PRF
  - Doppler baseline
  - Doppler velocity scale
  - Doppler gain
  - Doppler transmit

- Measurements:
  - Distance, Circumference, Surface Area, Volume, Velocity, VTI, Time Intervals

**NUCLEAR MEDICINE (NM)**

Unit of Energy: Ionizing Isotope Radiation.

Principle Contrast Mechanism: Tissue Uptake.

Approximate Exams/year: 18 Million.

Main Applications: 2nd level cardiac, cancer staging (Includes PET).


Long-term potential for patient harm: Low. Theoretical risk of increased cancer risk but no link has been shown yet due to the lack of over-use.

**Imaging Options for a Nuclear Medicine Tech**

1) Height  2) Weight  3) Dose  4) Collimator  5) Scope (head/body)  6) Dynamic vs. Non-dynamic
A Comparison of MRI to Other Medical Imaging Modalities (continued)

**MAGNETIC RESONANCE IMAGING (MRI)**

Unit of Energy: Radio Frequency Transmission in a Large Main Magnetic field.

Principle Contrast Mechanism: Tissue Equilibrium Rates.

Approximate Exams/Year: 30 Million.

Main Applications: Cancer staging, Central Nervous System (Brain/spine), Musculoskeletal, 3rd level breast, 2nd-3rd level cardiac.

Short-term potential for patient harm: High. If improperly employed, RF burns are the most common injury. Instant death can occur due to magnetic or ferrous objects. Several deaths have been documented.

Long-term potential for patient harm: Low. No adverse effects from MRI even with multiple and repeated use has ever been shown.

**Imaging Options for an MRI Tech**

- Imaging Mode Decisions:
  - 2D acquisition, 3D acquisition, 4D acquisition
- Surface Coil Selection
- Plane: Axial, Sagittal, Coronal, Oblique
- Pulse Sequence Decisions
  - Spin Echo
  - Inversion Recovery
    - STIR
  - Fast (Turbo) Spin Echo
    - FSE-IR, FSE Fast Recovery, Phase-sensitive IR, Single Shot FSE (HASTE)
  - FLAIR: T2 FLAIR, T1 FLAIR
  - Gradient Echo
    - GRE
    - Fast (Turbo) GRE (SPGR)
    - Spoiled GRE
    - Fast (Turbo) Spoiled GRE
    - In/Out of Phase GRE
  - Echo Planar Imaging (EPI)
    - GRE-EPI
    - SE-EPI
    - IR-EPI
    - Multi-shot EPI
    - Single Shot EPI
    - MS-IR-EPI
    - SS-IR-EPI
    - Susceptibility-weighted
    - Diffusion-weighted
    - Diffusion-Tensor: # of directions
A Comparison of MRI to Other Medical Imaging Modalities (continued)

- Vascular
  - Time-of-Flight
  - Phase Contrast (PC)
  - CINE
  - CINE PC
  - TOF-GRE
  - TOF-SPGR
  - CE MRA

➤ Acquisition Timing Decisions
- Time-to-Echo (TE)
  - Min TE, Min Full TE, Number of echoes
- Repetition Time (TR)
- Inversion Time (TI)
- Number of Excitations (NEX) or Number of Single Averages (NSA)
- < than 1 Fourier Transform steps (0.5, 0.75, etc)
- Receive Bandwidth
- Echo-Time Length (ETL)
- Flip Angle

➤ Image Resolution Decisions
- Field of View
- Slice Thickness
- Inter-slice skip factor
- Phase Encoding steps
- Frequency Encoding Steps
- Phase/Frequency direction

➤ General Imaging Options
- Spatial RF Saturation pulse
  - Default, Placement, Thickness
- Gradient Moment Nulling
  - Frequency Direction, Slice direction, Both
- Magnetization Transfer
- Sequential slice ordering
- Interleaved slice ordering
- Parallel Imaging
  - Acceleration factor
- Anti-Aliasing
- Respiratory Compensation
  - Resp re-ordering, Resp-triggering
- Cardiac Gating
  - R-R interval
  - Delay Time
  - Trigger Window
  - ECG gating vs. Peripheral
  - Views per Segment
- Vascular
  - Contrast Bolus detection
    - Manual timing
    - Computer-assisted
    - Real-time “Fluoro-triggering”
    - Time-Resolved Kinetics (IE:TRICKS)
A Comparison of MRI to Other Medical Imaging Modalities (continued)

- Fat Suppression
  - Fat Saturation, Spectral Fat Suppression, 3pt Dixon
- Local Field Shimming
  - Auto, Selection Volume

➤ Image Prescription Decisions
- Number of slices
- Slice/Volume coverage

➤ Image Reconstruction Options
- Zero-filling interpolation: In-plane, Through-plane
- Surface Coil intensity correction
- Auto-Image subtraction
- Image Filtration
- Image Add/Subtract
- ADC Map
- FA Map
- Perfusion Maps
  - rCBV, rCBF, rMTT
- Auto-Reformation
- Maximum-Pixel Intensity
- Minimum-Pixel Intensity

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29-2035.00 - Magnetic Resonance Imaging Technologists
Operate Magnetic Resonance Imaging (MRI) scanners. Monitor patient safety and comfort, and view images of area being scanned to ensure quality of pictures. May administer gadolinium contrast dosage intravenously. May interview patient, explain MRI procedures, and position patient on examining table. May enter into the computer data such as patient history, anatomical area to be scanned, orientation specified, and position of entry.

Sample of reported job titles: Chief Magnetic Resonance Imaging Technologist (Chief MRI Technologist), Magnetic Resonance Imaging Coordinator (MRI Coordinator), Magnetic Resonance Imaging Director, Magnetic Resonance Imaging Quality Assurance Coordinator (MRI Quality Assurance Coordinator), Medical Imaging Director, MRI Specialist (Magnetic Resonance Imaging Specialist), MRI Supervisor (Magnetic Resonance Imaging Supervisor), MRI Technologist (Magnetic Resonance Imaging Technologist), Staff Technologist, Technologist.

Tasks: 5 of 23 displayed
- Operate Magnetic Resonance Imaging (MRI) scanners.
- Select appropriate imaging techniques or coils to produce required images.
- Inject intravenously contrast dyes, such as gadolinium contrast, in accordance with scope of practice.
- Position patients on cradle, attaching immobilization devices if needed, to ensure appropriate placement for imaging.
- Conduct screening interviews of patients to identify contraindications, such as ferrous objects, pregnancy, prosthetic heart valves, cardiac pacemakers, or tattoos.

Technology Skills: 5 of 6 displayed Show 32 tools used
- Internet browser software — Web browser software
- Medical software — Electronic medical record EMR software; Medical image processing software;
  - MEDITECH software tif ; Radiology information systems (RIS)
- Office suite software — Microsoft Office
- Spreadsheet software — Microsoft Excel
- Word processing software — Microsoft Word 44/ Hot Technology — a technology requirement frequently included in employer job postings.

Knowledge: 5 of 9 displayed
- 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.
- English Language — Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.
- 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.
- Biology — Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.
- Computers and Electronics — Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.

Skills: 5 of 18 displayed
- 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.
- Reading Comprehension — Understanding written sentences and paragraphs in work related documents.
- Monitoring — Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
- Speaking — Talking to others to convey information effectively.
- Operation Monitoring — Watching gauges, dials, or other indicators to make sure a machine is working properly.

Source: Visit: https://www.onetonline.org/link/summary/29-2035.00
Abilities: 5 of 23 displayed
- **Oral Comprehension** — The ability to listen to and understand information and ideas presented through spoken words and sentences.
- **Oral Expression** — The ability to communicate information and ideas in speaking so others will understand.
- **Near Vision** — The ability to see details at close range (within a few feet of the observer).
- **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.
- **Written Comprehension** — The ability to read and understand information and ideas presented in writing.

Work Activities: 5 of 32 displayed
- **Assisting and Caring for Others** — Providing personal assistance, medical attention, emotional support, or other personal care to others such as coworkers, customers, or patients.
- **Interacting With Computers** — Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.
- **Getting Information** — Observing, receiving, and otherwise obtaining information from all relevant sources.
- **Documenting/Recording Information** — Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.
- **Performing for or Working Directly with the Public** — Performing for people or dealing directly with the public. This includes serving customers in restaurants and stores, and receiving clients or guests.

Detailed Work Activities: 5 of 18 displayed
- Operate diagnostic imaging equipment.
- Create advanced digital images of patients using computer imaging systems.
- Administer medical substances for imaging or other procedures.
- Position patients for treatment or examination.
- Collect medical information from patients, family members, or other medical professionals.

Work Context: 5 of 30 displayed
- **Face-to-Face Discussions** — 85% responded "Every day."
- **Indoors, Environmentally Controlled** — 93% responded "Every day."
- **Importance of Being Exact or Accurate** — 74% responded "Extremely important."
- **Sounds, Noise Levels Are Distracting or Uncomfortable** — 77% responded "Every day."
- **Telephone** — 74% responded "Every day."

Job Zone: Title Job Zone Three: Medium Preparation Needed
Education Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree.
Related Experience 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.
Job Training: 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.
Job Zone These occupations usually involve using communication and organizational skills to: Examples coordinate, supervise, manage, or train others to accomplish goals. Examples include hydroelectric production managers, travel guides, electricians, agricultural technicians, barbers, court reporters, and medical assistants. SVP Range (6.0 to < 7.0)

Education: Percentage of Respondents Education Level Required
- 44 Associate's degree,
- 37 Post-secondary certificate,
- 7 Bachelor's degree

Credentials:
Find Training – Visit: https://www.onetonline.org/link/summary/29-2035.00
Find Certifications - Visit: https://www.onetonline.org/link/summary/29-2035.00
Find Licenses - Visit: https://www.onetonline.org/link/summary/29-2035.00

Source: Visit: https://www.onetonline.org/link/summary/29-2035.00
Interests: All 3 displayed
Interest code: RCS Want to discover your interests? Take the 0”NET Interest Profiler at My Next Move.

- **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.

- **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.

- **Social** — Social occupations frequently involve working with, communicating with, and teaching people. These occupations often involve helping or providing service to others.

Work Styles: 5 of 16 displayed
- **Dependability** — Job requires being reliable, responsible, and dependable, and fulfilling obligations.
- **Attention to Detail** — Job requires being careful about detail and thorough in completing work tasks.
- **Concern for Others** — Job requires being sensitive to others' needs & feelings & being understanding & helpful on the job.
- **Integrity** — Job requires being honest and ethical.
- **Self Control** — Job requires maintaining composure, keeping emotions in check, controlling anger, and avoiding aggressive behavior, even in very difficult situations.

Work Values:
- **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.
- **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.
- **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.

Wages & Employment Trends:
- Median wages (2017) $33.62 hourly, $69,930 annual
- Local State wages 4% salary info
- Employment (2016) 37,000 employees
- Projected growth (2016-2026) Faster than average (10% to 14%)
- Projected job openings (2016- 2026 2,500)


Top industries: (2016) Health Care and Social Assistance

Job Openings on the Web: Find Jobs - Visit: https://www.onetonline.org/link/summary/29-2035.00

Sources of Additional Information: All 5 displayed
Disclaimer: Sources are listed to provide additional information on related jobs, specialties, and/or industries. Links to non-DOL Internet sites are provided for your convenience and do not constitute an endorsement.

- American Registry of Magnetic Resonance Imaging Technologists
- American Society of Radiologic Technologists
- Occupational Outlook Handbook: Radiologic and MRI technologists
- Society for MR Radiographers and Technologists, A Section of the International Society for Magnetic Resonance in Medicine
- The American Registry of Radiologic Technologists

Source: Visit: https://www.onetonline.org/link/summary/29-2035.00
ARMRIT Code of Ethics

Magnetic Resonance Imaging Technologists, as Certified Technologists of an allied health care profession, must endeavor to always practice their specialty with the highest ethical standards in mind. The American Registry of Magnetic Resonance Imaging Technologists’ Board of Directors adopted and enacted the following Guidelines:

1) The MRI technologist shall provide quality service and patient care with empathy, respect and concern for the rights, privacy and safety of the patient.

2) The MRI technologist shall always be aware of the precautions necessary and available to anyone in the MRI environment in order to safeguard the patient and others.

3) The MRI technologist shall respect the confidentiality and never divulge patient information to anyone not directly related to the care of the patient as allowed by law.

4) The MRI technologist shall adhere and comply with statutes, laws, regulations or specifications that govern the medical imaging modality of magnetic resonance imaging technology under federal, state and local law.

5) The MRI technologist shall perform their assigned duties responsibly, accurately and competently, and professionally.

6) The MRI technologist shall always endeavor to enhance and improve their knowledge of the specialty and skills annually through formal and informal continuing education.

7) The MRI technologist shall not violate any laws.

8) The MRI technologist shall promote community awareness of the importance of quality health care and participate in related activities, whenever possible.

Mission Statement

The mission of the American Registry of Magnetic Resonance Imaging Technologists (ARMRIT) is to recognize individuals qualified as specialists in the use of Magnetic Resonance Imaging (MRI) Technology which employs non-ionizing radiation, to promote high standards of patient care and safety in the diagnostic medical imaging modality of MRI Technology, including interventional MRI, cardiovascular MRI, functional MRI, and MRI breast imaging. The Registry is open to all qualified technologists in all imaging fields who have documented MR clinical experience and/or formal education completed through schools dedicated to MRI Technologists.

Mission Objectives

➢ Promote high standards of MRI education and clinical training prior to entering the profession;

➢ Promote high standards of professionalism required by a diagnostic medical imaging specialty;

➢ Administer competency examinations that measure the theoretical knowledge and clinical skills necessary to competently perform the tasks of a MRI specialist.
**ARMRIT Certified MRI Technologist’s Responsibilities**

1) Frame and display your certificate proudly at your place of employment. (CMS & ACR perform unannounced site-visits).

2) File your Score Sheets in a safe place.

3) Adhere to the Code of Ethics set forth by the ARMRIT Board of Directors.

4) Attain the required Continuing Medical Education credits in MRI Technology, currently eight (8) per year, a total of twenty-four (24) per three-year period.

5) Inform the Registry immediately of any changes of address, contact phone number, MRI employer, MRI equipment experience, and promotions.

6) Pay the triennial renewal fee of $300 on-time for the next three calendar years.

7) Your support of the ARMRIT helps protect your right to be employed in MRI and is recognized by all four Centers for Medicare and Medicaid (CMS) designated accrediting organizations, the American College of Radiology, Inter-societal Accreditation, the Joint Commission, and RadSite.

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**Certified Tech's Resume' (CV) - On-Line**

All Registry Active Certified Technologists are encouraged to post their resume (CV) on the ARMRIT Webpage at: [www.armrit.org](http://www.armrit.org)

1) Click on ‘MRI Tech Resume' (CV)’ at the top of the homepage.

2) Scroll down to the bottom and click on: ‘**Click here to post your Resume (CV)**’.

3) Enter your Login: use your e-mail address.

4) Enter a password.

5) Enter all relevant information and click on **Submit**.

6) Remember your Login, Password, and Listing Number.

7) If you forget your Login, Password, or Listing Number, enter a new listing and the Web Manager will remove the old listing.

---

*Visit [www.armrit.org](http://www.armrit.org) regularly.*
MRI CME Requirement for Renewal

**Registry Active Certified MRI Technologists:** All Certified MRI Technologists are required to renew their certification for the next three-year period and must submit evidence of eight (8) CME credits per year for a total of twenty-four (24) CME credits in MRI Technology as awarded by the AHRA, ACCME, AMA, ASRT or other qualified CME granting organization.

**CME Topics:** Continuing medical education credits must be derived from topics related to Magnetic Resonance Imaging Technology and/or MRI Patient Care & Safety.

A Certificate and ID card will not be released until the MRI CME Requirement is met!

**IMPORTANT:** Subjects other than “MRI” will not be accepted!!! If “MRI” is not in the Title, it will not be accepted!!!

**Recommended Sources for MRI Continuing Medical Education**

Visit: icpme.us/ARMRIT

*All ARMRIT Meeting Lectures are acceptable for Renewal!*
ARMRIT MRI Technologist Examination Overview

**STRUCTURE:** The exam is divided into three (3) sections of eighty (80) questions each for a total of two hundred and forty (240) questions, as follows:


  **Format:** Multiple choice and TRUE/FALSE questions.


  **Format:** Multiple choice and TRUE/FALSE questions.

Section 3: Part 1 - Bioeffects, Safety and Patient Care.

  **Format:** Thirty (30) multiple choice and TRUE/FALSE questions.


  **Format:** Fifty (50) matching anatomical structures on MRI images.

**TOTAL EXAM TIME:** Four (4) hours. Candidates are advised to use all time allotted to make sure all questions have been answered.

**Passing Score for Each Section:** 70%.

**Multiple Choice Questions:** There is only one right and/or best answer to every question, there are no “multiple, multiple choice” questions (i.e., A and B; C and D).

In many MRI textbooks and manuals, the main static magnetic field will be symbolized Bo, the radiofrequency (RF) B1 and the components of the net magnetization vector, Mz in the longitudinal plane and Mxy in the transverse plane. The orthogonal (mutually perpendicular) axes of the gradient magnetic fields are oriented in the following directions (horizontal for simplification):

![Gradient Axes Diagram](image)

The logical (for educational purposes) gradient directions are; Slice Select gradient is Gz, phase encoding gradient is Gy and the frequency encoding gradient is Gx (the “read out” gradient). Understanding how the gradients are physically (actually) employed during a pulse imaging sequence is important to image quality, the management of motion artifact, flow effects and certain artifacts such as aliasing, chemical shift artifact, magnetic susceptibility, respiratory and cardiac activity. Understand the four tissue characteristics; Hydrogen concentration, T1 effects, T2 effects, and velocity (flow) effects, and the various pulse sequences that bring out these properties. The following pulse sequences are covered: Spin-echo, Gradient -echo, Inversion recovery, MRA, FLAIR, etc. Included in this review package is recommended reading material.
American Registry of Magnetic Resonance Imaging Technologists - ARMRIT
Offer exams exclusively on computer via PSI Exams On-line.

February 27, 2003 New York, NY. The American Registry of Magnetic Resonance Imaging Technologists exams for MRI technologists will be offered only on computer, replacing the standard paper and pencil format, beginning in March of this year.

PSI Exams On-line, a leading computer-based testing company, offers ARMRIT candidates the availability of over 1,000 test sites nationally. This will allow accessibility to more candidates with the added benefit of scheduling flexibility.

The process begins once a candidate’s application is received and reviewed. If approved, a secure email will be sent to PSI authorizing the Candidate to sit for the examination. PSI will contact the Candidate to schedule an appointment online at a conveniently located test site. The applicant must schedule the appointment within one-year of the date of the secure email.

According to James F. Coffin, President of ARMRIT, “Some of the benefits of PSI Exams On-line are: flexible scheduling, more geographical test site locations, immediate results to the candidate and the basic exam results data will be provided to the ARMRIT psychometrician regularly”

The CBT process will provide the ARMRIT examination committee with the necessary data to update and improve the examination on a continuous basis. The goal of the examination committee will be to implement periodic updates and improvements to the examination.

To locate a PSI test site go to: www.psiexams.com
Accredited MRI Programs
Commission on Accreditation - COA
of the
American Registry of Magnetic Resonance Imaging Technologists

- **American Institute of Medical Sciences & Education**, Piscataway, NJ
  Phone: 908-222-0002  24 Month Certificate Program.  [www.aimsedu.com](http://www.aimsedu.com)

- **Apprenticeship - USDOL**, Washington, DC
  MRI Technologist O*NET Code: 29-2035.00

- **Aquarius Institute of Computer Science**, Des Plaines, IL

- **Career Networks Institute (CNI College)**, Santa Ana, CA
  Phone: 714-437-9697  Associate Degree Program.  [www.cnicollege.edu](http://www.cnicollege.edu)

- **Casa Loma College**, Van Nuys, CA
  Phone: 818-785-2726  Associate Degree Program.  [www.casalomacollege.edu](http://www.casalomacollege.edu)

- **Gurnick Academy of Medical Arts**, Modesto, CA
  Phone: 209-521-1821  Associate Degree Program.  [www.gurnick.edu](http://www.gurnick.edu)

- **Gurnick Academy of Medical Arts**, San Mateo, CA
  Phone: 650-685-6616  Associate Degree Program.  [www.gurnick.edu](http://www.gurnick.edu)

- **Gurnick Academy of Medical Arts**, Sacramento, CA
  Phone: 916-588-2060  Associate Degree Program.  [www.gurnick.edu](http://www.gurnick.edu)

Continued on Page 22
Accredited MRI Programs (continued)
Commission on Accreditation - COA
of the
American Registry of Magnetic Resonance Imaging Technologists

- **Midwestern Career College**, Chicago, IL
  Phone: 312-236-9000  Associate Degree Program.  [www.mccollege.edu](http://www.mccollege.edu)

- **Midwestern Career College**, Naperville, IL
  Phone: 630-536-8679  Associate Degree Program.  [www.mccollege.edu](http://www.mccollege.edu)

- **National Polytechnic College**, Lakewood, CA
  Phone: 888-243-2493  18 month Certificate Program.  [www.npcollege.edu](http://www.npcollege.edu)

- **Tesla Institute of MRI Technology**, Fairfax, VA
  Phone: admissions@teslamrinstitute.org  One-Year Certificate Program.  [www.teslamrinstitute.org](http://www.teslamrinstitute.org)

- **West Coast Ultrasound Institute**, Los Angeles, CA
  Phone: 310-289-5123  Associate Degree Program.  [www.wcui.edu](http://www.wcui.edu)

- **West Coast Ultrasound Institute**, Ontario, CA
  Phone: 909-483-3808  Associate Degree Program.  [www.wcui.edu](http://www.wcui.edu)

- **West Coast Ultrasound Institute**, Phoenix, AZ
  Phone: 602-954-3834  Associate Degree Program.  [www.wcui.edu](http://www.wcui.edu)
Recommended Sources for MRI Information.

**Soft cover books:**
- Magnetic Resonance, Bioeffects, Safety, and Patient Management, by Frank G. Shellock and Emanuel Kanal, Raven Press
- MRI for Technologists, modules 1-6, Bayer, contact your Bayer, Magnevist Sales Representative.
- MRI for Technologists, by Peggy Woodward / Roger Freimarck, McGraw Hill
- Pocket Atlas of Cross-Sectional Anatomy, by Torsten B. Moller and Emil Reif, Theime Flexibook
- Questions and Answers in Magnetic Resonance Imaging, by Allen D. Elster, MD, Mosby-Yearbook

**Hard cover books:**
- Clinical Magnetic Resonance Imaging, 3rd Edit., by Robert R. Edelman, MD & John R. Hesselink, MD, W.B. Saunders Company

**On-Line:** www.MRIsafety.com  **Practice Tests:** www.armrit.org


Send to: Name: __________________________________________________________

Address: ____________________________________________________________________________

City: ________________________ State: ____________ Zip Code: _________

Payment Options: Check _____ Money Order _____ Make check or MO payable to: ARMRT

Mail to: 2444 NW 8th Street or Fax to: 561-265-5045 Delray Beach, FL 33445

Pay by Credit Card: (check one) MasterCard _____ Visa _____ American Express _____ Discover _____

Card Number: ___________________________ Expiration Date: _____ Verification Code: _____

(On Back of Card)

Print Name on Card: ___________________________

Authorized Signature: __________________________ Date: ____________

For Office Use only: Payment Method: Check#/MO#/CC Approval #: __________________________

Transaction Date: __________________________

Processed by: __________________________
Sample MRI Resume:

John / Jane Doe, ARMRIT
111 Main Street, Apt. 1a
Anywhere, NY  11234

Objective: To obtain a position as a MRI Technologist commensurate with my MRI experience and MRI education.

Work Experience:

January 2003 – present  ACME Imaging, PC, Brooklyn, NY  
MRI Technologist performing MRI studies on 12 patients/day.  
Working with a Hitachi MRP5000 0.2T permanent magnet.

April 2001 – January 2003  Parts Production, Inc., Queens, NY  
Assistant Manager.

October 1995 – April 2001  Smith and Smith, Inc., New York, NY  
Sales Representative.

Education:

May 2002 – May 2003  Institute of Medical Imaging Professions, New York, NY  
at Hospital Medical Center, Queens, NY  
MRI Technologist Program with Clinical training.

September 1993 – June 1995  City Community College, Brooklyn, NY  
Associates Degree in Applied Sciences.

Certification:
ARMRIT Registry Active # 9999
BLS, AHA expires May 2010
IV Insertion Techniques, Hospital Certificate.

References available upon request.
ELIGIBILITY CRITERIA for CANDIDATES of the
ARMRIT MRI TECHNOLOGIST EXAMINATION

1) **Graduate of an ARMRIT Accredited MRI Program:** (within three (3) years of date of graduation).
   Completion of an ARMRIT approved Certification or Degree program that includes at least 1,000 hours of Documented MRI Clinical training (see pages 21 & 22).

2) **Graduate of an MRI Registered Apprenticeship Program:** (within three (3) years of date of graduation).
   Graduates must document a minimum of 2,000 hours of MRI Clinical training from an approved Registered Apprenticeship program. Registration may be by the U.S. Department of Labor, Office of Apprenticeship, or by a State Apprenticeship Agency recognized by the Office of Apprenticeship (see page 21).
   Magnetic Resonance Imaging (MRI) Technologist O*NET Code: 29-2035.00  Rapids Code: 1115

3) **Graduate of a Non-ARMRIT Accredited MRI Tech Program:** (within three (3) years of date of graduation).
   Completion of a Non-ARMRIT approved Certification or Degree program of at least one (1) year of Allied Health Education that includes at least 2000 hours of Documented MRI Clinical training and is licensed by their State.

4) **Medical Imaging or Allied Health Field Cross-Trainers:**
   Individuals from another medical imaging modality or allied health field and have at least 1700 hours of documented MRI Clinical experience such as:
   
   Cardio Vascular Technologist (CVT).
   EEG Technologists.
   Electro-Physiology and Evoked Potential Technologists.
   Emergency Medical Technician (EMT).
   Foreign Medical Graduate (see below for U.S. evaluators).
   Medical Assistants Diploma and/or Certification.
   Nuclear Medicine Technologists certified by the NMTCB or ARRT.
   Nurses (RN, LPN, and LVN).
   Physical Therapist (PT).
   Physical Therapy Technician/Assistant (PT).
   Physicians (MD, DO, DC, DPM).
   Physician Assistants (PA).
   Radiographers certified by the ARRT, LRT, CRT or State license.
   Surgical Technician with National Certification.
   Ultrasonographers certified by the ARDMS or CCI.

5) **Equivalency Clause:**
   On The Job Trained: applicant must prove four (4) years or 6240 hours of documented full-time MRI clinical experience or possess a Associates Degree and 2000 hours of full-time MRI Clinical experience.

**Evaluation of Foreign Academic Credentials**
Eligibility based on a degree from a foreign educational institution, official transcript(s) must be evaluated. Listed below are acceptable agencies:

- **A&M Logos International**- 40 Rector ST., Suite 1504, NY, NY 10006
  Ph.: 212-233-7021  Email: www.amlogos.com
- **Globe Language Service**- 319 Broadway, 2nd Floor, NY, NY 10007
  Ph.: 212-227-1994  Email: info@globelanguage.com
- **The Trustforte Corporation**- 271 Madison Avenue, Third Floor, NY, NY10016
  Ph.: 212 481-4870  Email: info@trustfortecorp.com
- **World Education Services**- Bowling Green Station, P.O. Box 5087, NY, NY 10274
  Ph.: 212-966-6311  Email: www.wes.org
- **Educational Credential Evaluators** - PO Box 514070, Milwaukee WI 53203
  Ph.: 414-289-3400  Email: eval@ece.org

Valid as of 01/15/2020
Applications Must Include the Following Documentation:

Eligibility Categories:

Graduate of an ARMRIT Accredited MRI Technologist Program (see pages 21 & 22):

1) Application, Completely fill-out (incomplete Applications will be returned!).
2) Application fee of $300.00, Non-Refundable!
3) Copy of Certificate or Diploma within three (3) years of graduation.
4) Resume/Curriculum Vitae (CV) (see sample on page 24).
5) Copy of Drivers License or Non-Drivers (Government Issued) Picture ID.

Graduate of an MRI Technologist Registered Apprenticeship Program (see page 21):

1) Application, Completely fill-out (incomplete Applications will be returned!).
2) Application fee of $300.00, Non-Refundable!
3) Copy of Certificate or Diploma within three (3) years of graduation.
4) Original Letter of recommendation, dated within the last twelve (12) months, from your MRI Clinical Supervisor stating you have 2000 hours of MRI Clinical training and are competent as an MRI Technologist.
5) Resume/Curriculum Vitae (CV) (see sample on page 24).
6) Copy of Drivers License or Non-Drivers (Government Issued) Picture ID.

Graduate of a Non-ARMRIT Accredited MRI Technologist Program:

1) Application, Completely fill-out (incomplete Applications will be returned!).
2) Application fee of $300.00, Non-Refundable!
3) Copy of Certificate or Diploma within three (3) years of graduation.
4) Original letter, dated within the last twelve (12) months, from your current Medical Director or Reading Physician stating you have 2000 hours of MRI Clinical training and are competent as an MRI Technologist.
5) Original Letter of recommendation, dated within the last twelve (12) months, from your MRI Clinical Supervisor stating you have 2000 hours of MRI clinical training and are competent as an MRI Technologist.
6) Resume/Curriculum Vitae (CV) (see sample on page 24).
7) Copy of Drivers License or Non-Drivers (Government Issued) Picture ID.

(Continued on Page 27)
Applications Must Include the Following Documentation (continued):

Eligibility Categories:

Cross-Trainer from an Allied Health Field & Foreign Medical Graduates:

1) Application, Completely fill-out (incomplete Applications will be returned!).
2) Application fee of $300.00, Non-Refundable!
3) Copy of Certificate and/or License in the Allied Health Field you cross-trained from.
4) Original letter, dated within the last twelve (12) months, from your current Medical Director or Reading Physician stating you have 1700 hours of MRI Clinical experience and are competent as an MRI Technologist.
5) Original Letter of recommendation, dated within the last twelve (12) months, from your MRI Clinical Supervisor stating you have 1700 hours of MRI Clinical experience and are competent as an MRI Technologist.
7) Resume/Curriculum Vitae (CV) (see sample on page 24).
8) Copy of Drivers License or Non-Drivers (Government Issued) Picture ID.

On The Job Trained – Equivalency Clause:

1) Application, Completely fill-out (incomplete Applications will be returned!).
2) Application fee of $300.00, Non-Refundable!
3) Copy of Certificate or Diploma – Associate or Bachelor Degree.
4) Original letter, dated within the last twelve (12) months, from your current Medical Director or Reading Physician stating you have four (4) years or 6,240 hours of full-time MRI Clinical experience and are competent as an MRI Technologist or possess an Associate Degree and 2000 hours of full-time MRI Clinical experience.
5) Original Letter of recommendation, dated within the last twelve (12) months, from your MRI Clinical Supervisor stating you have four (4) years or 6,240 hours of full-time MRI Clinical experience and are competent as an MRI Technologist or possess an Associate or Bachelor Degree and 2000 hours of full-time MRI Clinical experience.
6) Resume/Curriculum Vitae (CV) (see sample on page 24).
7) Copy of Drivers License or Non-Drivers (Government Issued) Picture ID.

Valid as of 01/15/2020
Application & Examination Process -READ CAREFULLY!!!

Important! Failure to adhere to all time limits and deadlines will lead to revocation of Candidate Status!

1) Fill out all areas of the ARMRT MRI Technologist Examination Application **completely**.
   **Incomplete Applications Will Be Returned!!!**

2) Pay the **Non-refundable** Application Fee of $300 by **check**, **money order**, **credit card**, or pay **online** at ‘ARMRT Services’ on www.armrit.org. **Note:** Computer Based Testing Company fees are separate.

3) Include all necessary documentation (see pages 26 & 27).

4) Evaluation of foreign education *(if applicable)*, see page 25 for acceptable agencies.

5) Send all documentation to: ARMRT.
   2444 NW 8th Street
   **Note: Do Not Send Certified!** Delray Beach, FL 33445

6) Once all documentation is received and reviewed, the Applicant will receive either an 'Application Review Letter’ will be sent to the Applicant or a ‘Secure Email’* will be sent to the Computer Based Testing Company (PSI) verifying the Candidate’s Authorization to sit for the exam.

   **Important:** Candidates must sit for the exam within One (1) Year of the date of this email.

7) An ‘Application Review Letter’ informs the Applicant to provide required documents that were not included in their application package.

8) The Secure Email will provide the Candidate’s information to the Computer Based Testing Company, and PSI, the Computer Based Testing Company, will contact the Candidate by Email with **instructions to schedule their exam online** (check Spam/Junk Mail for this email).
   **Note:** Computer Based Testing Company fees are separate.

9) Upon completion of the exam, you will receive a score sheet from the Computer Based Testing Company. You must immediately alert the Registry by Email: armrit@msn.com or Phone: 561-450-6880

10) Upon successfully passing the exam, a certificate & ID card will be processed.

11) If the exam is failed, the Candidate must visit ‘ARMRT Services’ on the homepage: www.armrit.org and go to Retake Application to process the application online, *with fee*, within **thirty (30) days** of the date of the score sheet. **Note:** Computer Based Testing Company fees are separate.

12) Maximum attempts to pass the exam are three (3). Failure to pass in three (3) attempts requires the Candidate to enroll in a MRI review class and start the application process over.

   *A Candidate who fails to sit for the exam within the one (1) year period must start the application process again! No Exceptions!*
ARMRIT MRI TECHNOLOGIST EXAMINATION *APPLICATION

Print clearly in ink - INCOMPLETE APPLICATIONS WILL BE RETURNED!!!

Name: _____________________________________________  M or F: ___  DOB: __________________

First   M.I.   Last

Home/Mailing Address: _____________________________________________ E-Mail: ___________________

Include: Ave., St., Dr., Rd., Blvd., PO Box  Apt#/Unit#  Mandatory

City: ____________________________  State: _____________  Zip Code: _________  Phone: _____________

Soc. Sec. # (Last 4 digits): ___________________  MRI Clinical Experience (years or hours): _____________

MRI Employer or MRI Clinical Facility: ________________________________________________________

Address: _____________________________________________ City: ______________ State: ______ Zip Code: ______

Employer Phone: ____________________  Medical Director or Supervisor: ____________________________

Name of MRI School, City, State: _____________________________________________________________

MRI Equipment Experience (manufacturer, model, field strength): ___________________________________

________________________________________________________________________________________

Have you ever been convicted of a felony or Misdemeanor? (Circle one)  YES       or        NO

If YES, submit details for review by the Board of Directors.

I, _____________________________________________, attest that all information included in this
Application Form is true and accurate.

Signature of Applicant: _________________________________ Date: __________

Fee: $300 (Non-refundable).  Payment Options: Check ___ Money Order___ made payable to: ARMRIT

Note: Computer Based Testing Company fees are separate.  Mail Application to: (Do Not Send Certified!)

2444 NW 8th Street
Delray Beach, FL 33445

Pay by Credit Card: (check one) MasterCard ____ Visa ____ American Express ____ Discover ______

Card Number: _______________________________ Expiration Date: _______ Verification Code: _____
(On Back of Card)

Print Name on Card: ___________________________________________

Authorized Signature: __________________________________________ Date: __________

To Pay On-Line, Visit: www.armrit.org  Paid On-Line (Check here)____

For Office Use only: Payment Method: Check#/MO#/CC Approval #: ______________________________

Transaction Date: _______________________________ Processed by: ______________________________

As of: Valid as of 01/15/2020