

MAGNETIC RESONANCE IMAGING (MRI)



Penn College Professional Certificate

Magnetic Resonance Imaging (MRI) uses a combination of powerful magnetic fields, pulsing radio frequencies, and a computer to produce body images that are used in medical diagnosis and treatment.

This professional, 9-month, hybrid certificate provides online didactic learning mixed with clinical experiences to educate students registered or certified (or registry/certification eligible) by The American Registry of Radiologic Technologists (ARRT) or Nuclear Medicine Technology Certification Board (NMTCB) to use magnetic equipment, conduct image scans of cross sections of the body, and reconstruct those scans into 3-D images. Students learn how contrast agents aid in viewing specific areas during an MRI procedure.

Study will include:

- An understanding of magnetic fields, pulsing radio-frequencies, and using a computer to produce images of the body
- How contrast agents aid in viewing specific areas during an MRI procedure
- An MRI imaging course
- Clinical experience operating an MRI scanner under the supervision of a board certified radiologist/radiographer
- Preparation to take the American Registry of Radiologic Technologists (ARRT) MRI certification program

ADMISSIONS REQUIREMENTS

Students interested in this professional certificate must be certified (or registry eligible) by The American Registry of Radiologic Technologists (ARRT) in radiography or by the Nuclear Medicine Technology Certification Board (NMTCB). Those in the category of registry-eligible must provide proof of certification before admission to the program.



CURRICULUM

Level 1 Courses

MRI Anatomy and Pathology (I)
 MRI Principle and Equipment (I)
 MRI special topics (I)
 MRI Lab (I)
 MRI Clinical

Level 2 Courses

MRI Anatomy and Pathology (II)
 MRI Principle and Equipment (II)
 MRI special topics (II)
 MRI Lab (II)
 MRI Clinical

Employment Opportunities

Employment of radiologic and MRI technologists is expected to grow faster than average; those with knowledge of more than one diagnostic imaging procedure will have the best opportunities (Bureau of Labor Statistics).

As the baby-boom population grows older, there may be an increase in medical conditions, such as cancer and Alzheimer's disease, which require imaging as a tool for making diagnoses. Radiologic and MRI technologists will be needed to take the images (Bureau of Labor Statistics).

Program approval by:

American Registry of Radiologic Technologists (ARRT) 1255 Northland Drive St. Paul, MN 55120-1155



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