

Target Group:



Occupational Profile

Nuclear Medicine Technologist

Standard Occupational Code 29-2033.00

What They Do

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.

Is This For You?

Work Interests are described in the following categories (compatible with Holland's Model). People who tend to succeed in this career are:

Realistic - Enjoy work activities that involve practical, hands-on problems and solutions.

Investigative - Interested in science and logic. They like to analyze, evaluate, and solve problems, and enjoy learning and understanding the causes of events.

Work Values are aspects of work that are satisfying to you. The following work values are generally associated with this career:

Support - Offer supportive management that stands behind employees.

Relationships - Allow employees to provide service to others and work with co-workers in a friendly non-competitive environment.

Working Conditions – Offer job security and good working conditions.

Abilities reflect a person's aptitude to acquire skills and knowledge. The following abilities are important for success in the career:

- Oral Comprehension
- Oral Expression
- Near Vision
- Problem Sensitivity
- Information Ordering
- Written Comprehension

Skills You Need

- Critical Thinking – Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- 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.
- Speaking – Talking to other to convey information effectively.
- Monitoring – Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
- Reading Comprehension – Understanding written sentences and paragraphs in work related documents.

Education & Training

Nuclear medicine technologists need **at least an associate's degree in nuclear medicine technology or related program.**

Where They Work

The South Dakota Industries which employ the largest number of nuclear medicine technologists are:

- General Medical and Surgical Hospitals
- Offices of Physicians
- Medical and Diagnostic Laboratories
- Local Government
- Federal Government

SD Employment & Wages

| 2016 Workers | 2026 Workers | Numeric Change | Percent Change | Average Annual Demand for Workers | Median Annual Wage |
|-----------------|-----------------|-------------------|-------------------|---|--------------------------|
| 150 | 170 | 20 | 12% | 10 | \$65,190 |

Activities: what you might do in a day

- Administer medical substance for imaging or other procedures
- Create advanced digital images of patients using computer imaging systems
- Operate diagnostic imaging equipment
- Process x-rays or other medical images
- Follow protocols or regulations for healthcare activities
- Prepare medications or medical solutions
- Explain medical procedures or test results to patients or family members
- Examine medical instruments or equipment to ensure proper operation
- Monitor the handling of hazardous materials or medical wastes
- Gather medical information from patient histories

Additional References

Career OneStop

www.careeronestop.org

O*Net Online

online.onetcenter.org