Dear Candidate:

Your inquiry concerning the Nuclear Medicine Program has been received and the application you have requested is enclosed.

The Nuclear Medicine Program accepts students once a year, in the Fall Semester. Applications to the program are accepted on a "delayed entry" admission basis. Please submit the application while in your last semester of pre-requisites, or by March of the year desired to start. A completed application means all official transcripts and evaluation of credits have already been completed by the Registrar's office. At that time, you will receive a formal acceptance letter with details about job shadowing before class starts. Please read all information carefully.

Should a question arise concerning the application process, please call or write to:

Health Careers Enrollment Center
Cuyahoga Community College
2900 Community College Avenue, MHCS 126
Cleveland, OH 44115

PHONE: 216-987-4247 or 216-987-4244

For questions specific to the program, please contact Teresa Taggart (216) 987-5298.

Thank you for your interest in Cuyahoga Community College's Nuclear Medicine Program.

Best Regards,

Teresa Taggart, MS, CNMT

Teresa Taggart, MS, CNMT
Program Manager, Nuclear Medicine

CUYAHOGA COMMUNITY COLLEGE
NUCLEAR MEDICINE PROGRAM INFORMATION

Cuyahoga Community College offers an Associate of Applied Science degree in Nuclear Medicine Technology. The program consists of five semesters of study which includes practical experience in a hospital Nuclear Medicine department, as well as academic classes. The health professional responsible for performing Nuclear Medicine examinations or diagnostic imaging procedures is the Nuclear Medicine Technologist.

WHAT DOES A NUCLEAR MEDICINE TECHNOLOGIST DO?

The Nuclear Medicine technologist is the health professional responsible for performing Nuclear Medicine examinations that aid the physician in the diagnosis and treatment of disease. The trained Nuclear Medicine technologist prepares and administers radiopharmaceuticals and performs patient imaging procedures using radiation detecting devices. They also provide data analysis and patient information to the physician for diagnostic interpretation. The Nuclear Medicine technologist is employed in hospitals, clinics, and doctor's offices. Graduates of the program are eligible for the American Registry of Radiologic Technologist (ARRT) examination for Nuclear Medicine and/or certification exam by the Nuclear Medicine Technology Certification Board (NMTCB).

If you are considering a career as a Nuclear Medicine technologist, a strong science and math background will contribute to your success. You must have genuine interest in working with people under a variety of situations and possess specific personal requirements.

WHAT COURSES ARE INCLUDED IN THE NUCLEAR MEDICINE PROGRAM?

The specific course descriptions are printed in Cuyahoga Community College's Catalog http://catalog.tri-c.edu/programs/nuclear-medicine-aas/#programsequencetext

Upon completion of the program the graduate is eligible for certification by the American Registry of Radiologic Technologists in Nuclear Medicine (ARRT) https://www.arrt.org/earn-arrt-credentials/credential-options/nuclear-medicine-technology and/or by the Nuclear Medicine Technology Certification Board (NMTCB) https://www.nmtcb.org/exam/instructions.php. Any NMT in Ohio also needs to apply for the Ohio State License https://odh.ohio.gov/wps/portal/gov/odh/know-our-programs/radiologic-licensure/education/.

WHAT OPPORTUNITIES ARE AVAILABLE TO GRADUATE NUCLEAR MEDICINE TECHNOLOGISTS?

As a registered Nuclear Medicine Technologist, you will find a wide market for your acquired professional skills. Opportunities for employment are available throughout the country. Graduates are needed in hospitals, clinics, surgical and urgent care facilities providing services to patients around the clock or on various shift assignments. Qualified Nuclear Medicine Technologists can also find job opportunities in education, civil service, radiopharmacies, industry and commercial sales.

Salaries for entry-level Nuclear Medicine Technologists are competitive with other health professionals of similar educational background. Hourly wages nationally averaged out to be $36.83 / hour (April, 2018).

The Bureau of Labor Statistics provides the following salary information. The median annual wage of nuclear medicine technologists was $75,660 (April, 2018).

Graduates of the Associate of Applied Science in Nuclear Medicine may continue on to earn a Bachelor of Science at other colleges after completing selected courses.

If you have any additional specific questions, please call the Nuclear Medicine Program Manager at 216-987-5298.

WHAT KIND OF FINANCIAL AID IS AVAILABLE?

Students may be eligible for several loan and scholarship programs including National Direct Student Loans, Pell Grants, Supplemental Educational Opportunity Grants, Ohio Instructional Grants, Guaranteed Student Loans, and General Scholarship Awards. Veterans may qualify for VA assistance. More information on financial aid or the Federal College Work Study Program can be obtained by contacting the Office of Student Financial Aid at Cuyahoga Community College, Parma, Ohio 44130.

The Western Campus financial aid phone number is1-216-987-5100.

ADMISSION REQUIREMENTS FOR ACCEPTANCE
INTO THE
NUCLEAR MEDICINE PROGRAM

I. Completion of the following application credentials:

A. COLLEGE APPLICATION ADMISSION FORM

Each candidate must submit a completed Application for Admission form, an official high school transcript, and official transcripts from all colleges and universities. Upon receipt and approval of your application, a letter will be sent indicating admission to Cuyahoga Community College as a general admission student. **This admission letter *does not* admit a student to restricted programs like the Nuclear Medicine Program.**

Applicants who are full-time students at Cuyahoga Community College need not file an application for admission to the College. Nor do you need to resubmit any transcripts that were submitted previously to the Office of the Registrar. However, you should submit any transcripts that indicate course work taken elsewhere since your admission. You do need to submit a copy of all your transcripts with the Health Careers Application to the Health Careers Enrollment Center.

Part-time students should change their status to full-time status and submit their high school transcript along with all other official transcripts from colleges and universities they have attended to the Health Careers Enrollment Center. It is not necessary to reapply for Admission to the College.

B. HIGH SCHOOL TRANSCRIPT

All Nuclear Medicine Applicants must be graduates of an accredited High School in the United States or submit General Education Development scores which must show evidence of successfully passing the General Education Development test (GED) with a standard score of 45 or better, or GED equivalency as evaluated by the Ohio Department of Education.

Foreign transcripts should be submitted as soon as possible for evaluation and translation. Contact Admission and Records for specific guidelines for foreign transcripts evaluation to U.S. equivalent.

C. OFFICIAL TRANSCRIPTS

If you are currently not a full-time student at Cuyahoga Community College, a set of official transcripts of all academic records from all schools, colleges, and universities attended are required to be sent directly to the Office of the Registrar's. Allow a minimum of 6 to 8 weeks for transcript evaluation. Your application is not considered complete for admission to the college until the Office of the Registrar evaluates all transcripts.

Two (2) official transcripts of all academic records are required. Send one directly to the Office of the Registrar and one to the Health Careers Enrollment Center along with your Health Careers Application.

Foreign transcripts should be submitted early for evaluation and translation. Contact the Registrar's office for specific guidelines for evaluation of Foreign Transcripts.

D. HEALTH CAREERS APPLICATION

All applicants are required to complete the Health Careers Application.

E. ACADEMIC REQUIREMENTS

1. High School graduate or successful completion of GED equivalency.

2. Completion of Core Courses with cumulative GPA of 2.5 or higher. Core Courses include:

   a. ENG 1010 College Composition I or transfer equivalent.
   MATH 1530 College Algebra or higher, or transfer equivalent.
   CHEM 1300, or 130H General Chemistry 1 or transfer equivalent
   CHEM 130L General Chemistry Laboratory I, or transfer equivalent
   BIO 2331/2341 Anatomy & Physiology I and II
   PHYS 1050 Everyday Physics. Accept PHYS-1210 in place of PHYS-1050 for those students intending on pursuing a Bachelors degree.
   NOTE: PHYS 1050 is only offered Fall Semester.

3. 2.00 GPA required for core courses for admission to NMED program, and a 2.50 overall GPA must be maintained while waiting for entry into the first program major course. A "C" or higher must be maintained in all Nuclear Medicine courses while in the program.

Only one of the above courses may be repeated once to improve a grade of less than a "C". A grade of less than a "C" received over seven (7) years ago will not count toward the "one course" repeat rule.

All Math and Science courses must have been completed within the past (7) years at the time the application is submitted. Math and Science courses completed over seven (7) years prior to the date of application to the Nuclear Medicine Program cannot be used to meet admission requirements.

F. EXTERNAL AGENCY/ACCREDITATION REQUIREMENTS

1. Evidence of current certification in the Basic Life Support Course for Health Care Providers (Course C) according to the American Heart Association standards will be required prior to receiving clinical assignment (this is not required prior to program admission). Verify certification by submitting a photocopy of both sides of your CPR card.

2. Candidates will be required to present evidence of good health verified by a physical examination prior to being granted permission to enter clinical training. Please refer to Health Requirements for Western Campus Health Career Students.

3. Must be able to communicate effectively in both the academic setting and in routine and emergency situations in the clinical health care setting. Students must be able to communicate effectively and efficiently with other members of the health care team as well as with patients. In emergency situations, the student must be able to understand and convey information essential for the safe and effective care of patients in a clear, unambiguous, and rapid fashion. In addition, the student must have the ability to relate information to and receive information from patients in an accurate, caring, sensitive and confidential manner.

G. PHSYICAL AND MENTAL REQUIRMENTS TO PERFORM ESSENTIAL FUNCTION OF A NUCLEAR MEDICINE STUDENT

1. Because the work of a Nuclear Medicine technologist deals with critical life and death situations, health requirements mandate that the student submit evidence of good health and appropriate immunizations to the program prior to their first clinical assignment. Students will be dropped from the program if significant limiting health conditions are present which prevent the student from performing the normal functions of a student in Nuclear Medicine technology and/or constitute a hazard to the health or safety of patients. Students must be able to perform the essential functions of a Nuclear Medicine student.

1.1. Nuclear Medicine Students must have the following physical and intellectual capabilities:

1.1.1. Vision must be corrected, to be able to read and appropriately adjust instrumentation equipment, and to accurately view acquired images and to be able to carefully observe patients throughout their procedure.

1.1.2. Must be able to distinguish audible sounds, to hear information essential for the safe and effective care of patients.

1.1.3. Must have full use of both hands, wrists, and shoulders.

1.1.4. Must have enough physical stamina to complete the course of didactic and clinical study as required. Long periods of sitting, standing, lifting, or moving are required in the clinical settings. Strength and mobility are needed to assist in emergency situations and activities associated with daily practice. Must have manual dexterity, and adeptness to coordinate the hands and eyes for manipulation of equipment controls, keyboard, and monitor.

Specifically required:

- •Ability to lift, handle and carry accessories and other supplemental equipment.
- •Ability to move/transfer and skillfully position patients weighing up to 400 pounds.
- •Ability to stand, bend and stoop over long periods of time, watching a computer monitor in a dimly lit room for up to 10 hours a day.
- •Ability to utilize various Nuclear Medicine apparatus and to move and manipulate imaging collimators weighing up to 350 pounds.

1.1.5. Must be able to communicate effectively in both the academic setting and in routine and emergency situations in the clinical health care setting. Throughout the program, the student must show evidence of effective written and verbal English communication skills. Communication includes not only speech, but also reading and writing. Students must be able to communicate effectively and efficiently with other members of the health care team as well as with patients. In emergency situations, the student

must be able to understand and convey information essential for the safe and effective care of patients in a clear, unambiguous, and rapid fashion. In addition, the student must have the ability to relate information to and receive information from patients in an accurate, caring, sensitive and confidential manner.

1.1.6. Must be able to measure, calculate reason, analyze, integrate, and synthesize in a timely fashion. Must possess the ability to think in the abstract, specifically, to be able to comprehend two dimensional relationships and understand the relationship of structures. The student must possess and utilize the ability to apply knowledge previously learned and use critical thinking skills.

1.1.7. Must possess the emotional health and stability required for the full utilization of their intellectual abilities, for the exercise of good judgment, for the prompt completion of all responsibilities attendant to the diagnosis and care of patients. Must be able to tolerate physically, mentally and emotionally taxing workloads and function effectively under stress. The student must be able to display flexibility, versatility, dependability, diplomacy, compassion, integrity, motivation, and interpersonal and professional skills at all times in the clinical setting.

1.1.8. Must be free from health or medical disorders (physical or mental) that limit the ability to completely and efficiently perform the duties of a Nuclear Medicine student. Must not be chemically dependent

EQUAL OPPORTUNITY EDUCATIONAL PROGRAM

In conformance with the state and federal guidelines, the Nuclear Medicine Program at Cuyahoga Community College is an equal opportunity educational program; this program does not discriminate on the basis of age, color, creed, disability, marital status, national origin, race or sex. In order to protect the privacy of its applicants, information on identified individuals to third parties may be released only after receiving written permission from the candidate involved in compliance with FERPA guidelines.

Limited enrollment capacity of the Nuclear Medicine Program, like other Health Career Programs at Cuyahoga Community College, means that not all who apply can be accepted immediately. The number of students accepted into the program is determined by the availability of space in the program's hospital/clinical affiliates. It is likely that there may be some qualified candidates who cannot be accommodated by the program immediately. Candidates with completed applications and meeting all admission core course requirements will be accepted into the program on a space-availability basis. Others with completed applications and meeting all requirements will be placed on a waiting list. The program will accept students in Fall Semester. Acceptance into academic classes does not guarantee immediate clinical placement.

NATIONAL REGISTRY EXAMINATION

Graduates of the Nuclear Medicine Program receive an Associate of Applied Science Degree in Nuclear Medicine and become eligible to take the ARRT and/or NMTCB National Registry Examinations for Nuclear Medicine. A Registered Nuclear Medicine Technologist may use the abbreviation R.T. (N) or C.N.M.T. after his/her name.

STATE LICENSURE

State law requires that all Nuclear Medicine Technologists be licensed. Licenses are obtained by applying to the State of Ohio Department of Health.

STUDENT FEES

Student Semester Credit Rates are published in the Scheduling Booklet and on the following website link: http://catalog.tri-c.edu/paying-for-college/tuition-and-fees/

Other expenses which the student Nuclear Medicine Technologist should be aware of include, but are not limited to:

- Physical Exam & Immunizations
- Hospital Uniform(s) & Shoes
- Transportation for Clinical Experiences
- Physical Examination Fee
- Lab and Clinical Fees
- Name Badge
- CastleBranch (BCI/Fingerprinting)
- Parking Fees
- State License Fee
- Malpractice Insurance
- Health Insurance
- Registration Fee for the Registry Examination
- Basic Heart Saver (CPR) Certification
- Trajecsys, Clinical Tracking Record
- Text Books

For General Information and Application Forms

Please write or call:

Health Careers Enrollment Center
Cuyahoga Community College
2900 Community College Avenue, MHCS 126
Cleveland, OH 44115
PHONE: 216- 987-4247 or 216-987-4244

Contact Information for the Office of the Registrar

Office of the Registrar
Cuyahoga Community College
P.O. Box 5966
Cleveland, Ohio 44101

CUYAHOGA COMMUNITY COLLEGE

Associate of Applied Science Degree in Nuclear Medicine

Course No.		Course Title	Credit Hrs.
PROGRAM ADMISSION REQUIREMENTS			
BIO	2331 / 2341	Anatomy & Physiology I and II	8
MATH	1530	College Algebra or Higher	4
PHYS	1050	Everyday Physics	2
ENG	1010	College Composition I	3
CHEM	1300	General Chemistry or Honors General Chemistry	4
CHEM	130L	General Chemistry Lab	1
		TOTAL	**22**

1st SEMESTER

MA	1010	Introduction to Medical Terminology	2
NMED	1010	Nuclear Medicine Math and Statistics	1
NMED	1100	Computers in Nuclear Medicine	1
NMED	1301	Nuclear Medicine Procedures I	3
NMED	130L	Nuclear Medicine Laboratory I	1
NMED	1501	Radiation Physics	2
NMED	1603	Radiopharmacy & Pharmacology for Nuclear Medicine	3
NMED	1701	Nuclear Medicine Instrumentation	3
		TOTAL	**16**

2nd SEMESTER

NMED	1200	Radiation Safety and Biology	2
NMED	1401	Patient Care for the Nuclear Medicine Technologist	1
NMED	1770	Immunology and Pathophysiology for Sectional Imaging	2
NMED	1780	Sectional Anatomy for Advanced Molecular Imaging	2
NMED	2301	Nuclear Medicine Procedures II	3
NMED	230L	Nuclear Medicine Laboratory II	1
NMED	2600	Molecular and Fusion Imaging	2
NMED	2660	Nuclear Medicine Therapy	1
		TOTAL	**14**

SUMMER SEMESTER

NMED	2940	Nuclear Medicine Field Experience I	3
NMED	2700	Nuclear Medicine Research Methods	1
PHIL	*2050*	*Bioethics*	*3*
		TOTAL	**7**

3rd SEMESTER

NMED	2950	Nuclear Medicine Field Experience II	4
ENG	*1020*	*College Composition II*	*3*
		TOTAL	**7**

4th SEMESTER

NMED	2960	Nuclear Medicine Field Experience III	4
PSY	*1010*	*General Psychology or (PSY101H) Honors Psychology*	*3*
		TOTAL	**6**
		PROGRAM TOTAL	**73**

CUYAHOGA COMMUNITY COLLEGE
Nuclear Medicine Program

OBSERVATION VERIFICATION FORM

To increase applicant's awareness of the responsibilities of a Nuclear Medicine Technologist, verification of observation of Nuclear Medicine Department activities is required. All **accepted** applicants are required to visit any two of the clinical affiliates. A list of affiliates names, addresses and phone numbers is found below. It is the applicant's responsibility to make an appointment at least two weeks in advance with the Nuclear Medicine Department representative of the hospital. Appropriate dress (business casual) is required for the observation visit. Expect to spend a minimum of 4 hours observing each of two clinical affiliates (total of 8 hours). Observation verification forms must be completed and returned by the applicant to the Program Manager at orientation prior to starting the program.

NUCLEAR MEDICINE PROGRAM
CLINICAL AFFILIATES

Mr. Setha Pich
Affiliate Education Supervisor

MetroHealth
2500 MetroHealth Drive
Cleveland, Ohio 44109
Phone: 216-778-4759

Mr. Jason Szmania
Affiliate Education Supervisor

Elyria Memorial Hospital
630 E. River Rd.
Elyria, OH 44035
Phone: 440-326-5422

Ms. Janine Tessean
Affiliate Education Supervisor

University Hospitals of Cleveland
11100 Euclid Avenue
Cleveland, OH 44106
Phone: 216-844-3107

Mr. Jay Tolaro
Radiology Supervisor
St. John Medical Center
29000 Center Ridge Rd.
Westlake, OH 44145 Phone: 440-827-5787

For all **Cleveland Clinic (CC)** sites below please contact: Amy Graska BS RT (R)(M) Supervisor Radiology Lakewood Hospital 14519 Detroit Ave. Lakewood, OH 44195 (216) 529-8395 e-mail: amgras@ccf.org. **DO NOT CONTACT CC sites directly!**

Michael Conrad
Affiliate Education Supervisor Medina Hospital—***CC***
1000 East Washington Street
Medina, OH 44256

Mr. Nick Jordan
Affiliate Education Supervisor
Cleveland Clinic Foundation--***CC*** 9500 Euclid Avenue
Cleveland, OH 44106

Gaurav Banerji
Affiliate Education Supervisor South Pointe Hospital--***CC***
20000 Harvard Rd. Warrensville Hts., OH 44122

Ms. Kathy Cunningham
Affiliate Education Supervisor
Fairview Hospital--***CC***
8101 Lorain Ave.
Cleveland, OH 44111

This letter of invitation is not an acceptance letter, but rather, an opportunity for prospective students to become acquainted with the field of Nuclear Medicine. **Once a student is accepted into the Nuclear Medicine Program, he or she will be required to complete an Observation Verification Form, indicating a scheduled visit has been completed. This form will be sent to you along with your acceptance letter.**