



## BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

**T**he medical technology program at Monmouth University is offered by the Department of Chemistry, Medical Technology, and Physics in the School of Science.

The curriculum provides a broad knowledge of both life and physical sciences and allows students to obtain specialized experience in performing and understanding numerous standardized and specialized laboratory procedures.

### Who is the Medical Technologist?

The medical technologist works within the fields of medicine and science, performing a full range of laboratory tests from simple blood tests to complex genetic and forensic tests. Medical technologists do much more than examine specimens through a microscope; they operate complex electronic equipment, computers, and precision instruments. Medical technologists work in critical areas of the laboratory, such as chemistry, hematology, immunology, and microbiology. Medical technology practitioners play an important role in healthcare delivery and patient health maintenance. Their many choices of work settings include hospitals, independent laboratories, clinics, public health facilities, and industry (pharmaceutical firms, molecular diagnostics, molecular biotechnology, and in vitro fertilization laboratories). To prepare for a career in medical technology, one should have a solid foundation in the sciences, especially biology and chemistry.

### The Monmouth Advantage

Students complete 96 credits of collegiate work prescribed by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and then complete a 12-month training period in an NAACLS-approved hospital. Monmouth University has affiliation agreements with Jersey Shore University Medical Center, Neptune, and Monmouth Medical Center, Long Branch. During the clinical internship, students rotate through hospital departments gaining practical experience, usually in the tests and procedures of blood banking, chemistry, hematology, immunology, and microbiology. To participate in an internship, students must maintain a 2.75 or 3.0 overall grade point average (depending on the hospital), particularly in science courses. Successful completion of the internship qualifies students to take the American Society of Clinical Pathology (ASCP) board of certification exam. Passing this test ensures continuation in this career and career advancement.

### Career Prospects

Medical technologists can become laboratory managers, technical specialists, teachers, or researchers. Medical technology

is an excellent background for graduate study in biology, chemistry, pharmacy, medicine, and dentistry.

Starting salaries for graduates are rising in this region. Many hospitals and laboratories also offer sign-on bonuses. And with a 14 percent job vacancy rate for medical technologists, positions are readily available for qualified graduates.

Graduates work in clinical laboratories of hospitals, research laboratories, veterinary offices, public health laboratories, and the pharmaceutical industry. They work in fields such as molecular diagnostics, stem cell research, flow cytometry, immunology, bone marrow transplantation, coagulation analysis, laboratory information systems, microbiology, and virology.

Long-term career opportunities are particularly enticing in the field of medical technology. The medical technologist has the potential to climb the ladder as a laboratory supervisor, laboratory manager, and then as a director of laboratory services, a position that currently yields a salary of up to more than \$100,000 in the northern New Jersey/Metro region.

## *valuable online resources*

- Apply Online
- Curriculum Charts
- Department Faculty Members
- [www.monmouth.edu/med\\_tech](http://www.monmouth.edu/med_tech)

**For complete information on all undergraduate programs within the School of Science, please visit [www.monmouth.edu/science](http://www.monmouth.edu/science).**