



The School of Science

BACHELOR OF SCIENCE IN CLINICAL LABORATORY SCIENCE with Concentrations in Cytotechnology and Medical Laboratory Science

The clinical laboratory science program is offered by Monmouth University's Department of Chemistry, Medical Technology, and Physics in collaboration with the University of Medicine and Dentistry of New Jersey-School of Health Related Professions (UMDNJ-SHRP). The curriculum is composed of a three-year, pre-professional component and a 15-month, professional component. The pre-professional component is conducted at Monmouth University. The professional component is conducted at the UMDNJ-SHRP Newark campus and at affiliated clinical and research facilities.

Concentrations are available in cytotechnology and medical laboratory science. Monmouth University and UMDNJ jointly confer the bachelor of science degree upon successful completion of the professional component.

The Monmouth Advantage

The capstone experience of the clinical laboratory science curriculum is the 15-month, professional component at UMDNJ-SHRP. This program provides a unique combination of academic and practical experience. The professional who completes this program is poised for a successful career of service and leadership in health-delivery support systems. Monmouth University students have shown that they are exceptionally well-prepared for all aspects of this experience.

Career Preparation

Clinical laboratory scientists play a major role in patient care by providing laboratory data that is crucial for medical research, the diagnosis of diseases, management of patient therapy, and maintenance of health. They perform a wide variety of analytical procedures requiring expertise in the use of state-of-the-art technology and instrumentation, as well as organizational, problem solving, and communication skills. Clinical laboratory scientists analyze body fluids, tissues, and cells. They look for microorganisms, test for the chemical components of blood and other body fluids, check blood types, and monitor drug levels in patients. Clinical laboratory scientists also use modern automated equipment and sophisticated laboratory instruments. Major disciplines in clinical laboratory science include clinical chemistry, clinical immunology, clinical microbiology, hematology, immunohematology, cytotechnology, toxicology, and urinalysis.

Clinical laboratory scientists find employment in a variety of settings including hospitals; commercial and reference laboratories; HMOs; veterinary

laboratories; physicians' offices; health clinics; pharmaceutical and cosmetic companies; local, state, or federal health agencies; research and teaching institutions; and the military. Clinical laboratory scientists can work hand-in-hand with scientific researchers to test drugs and study diseases, such as AIDS. They can also work in cytotechnology—a science that plays an important role in the ability to discover cancer cells in patients.

Employment opportunities with competitive salaries are available nationwide. A baccalaureate degree in clinical laboratory science is an excellent starting point for career advancement in technical areas, education, management, medicine, sales, marketing, healthcare administration, healthcare law, public health, consultation, and research. Starting salaries depend on the difficulty of the discipline and the degree of responsibility. The vacancy rate is eleven percent across the nation, so trained medical laboratory scientists easily find good positions with good working conditions. Multiple job offers and signing bonuses are common for top students.

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- www.monmouth.edu/cls
- <http://shrp.umdj.edu/programs/cls>

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