

# CLINICAL LABORATORY SCIENCES

DEGREES OFFERED: Bachelor of Science in Medical Technology  
Bachelor of Science in Medical Biotechnology

## CAREER SNAPSHOT

The Clinical Laboratory Sciences encompass two related fields, medical technology and medical biotechnology.

*Medical Technologists* develop, perform and supervise laboratory testing to diagnose and treat disease and to provide vital data for research studies. Many medical technologists work in hospital or physicians' office laboratories conducting measurements from simple blood tests to complex analyses for cancer, AIDS, bone marrow abnormalities, therapeutic drug monitoring, infectious disease and molecular diagnoses.

*Medical Biotechnologists* work with a team to conduct medical research in academic or industrial settings. In university laboratories, biotechnologists perform experiments that are part of a research study. In industrial laboratories, biotechnologists help develop and manufacture pharmaceutical drugs or vaccines. Both types of laboratories are involved in research designed to treat or prevent illness.



## UPSTATE MEDICAL UNIVERSITY OFFERS:

- Abundant opportunities for students to gain excellent laboratory skills through hands-on experience with basic methods in the student laboratories and advanced techniques in clinical (Med Tech) or research (Med Biotech) laboratories.
- Exposure to modern equipment in professional laboratory settings.
- Being part of a medical university, with opportunities to learn from core faculty and guest lecturers who are experts in biomedical specialty areas.
- Students learn to correlate laboratory findings with their medical significance.
- Students are exposed to diverse career options.
- State University of New York tuition

*The Medical Technology program also offers a master's degree.*

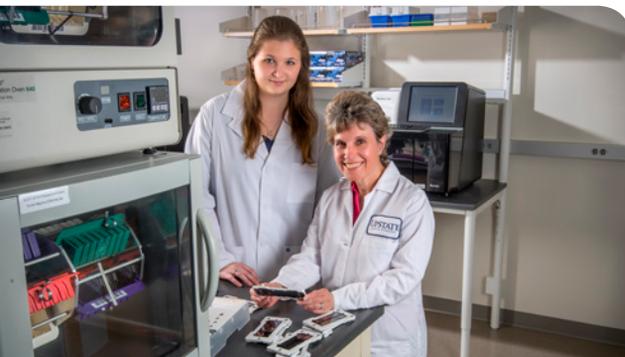
## CLINICAL OPPORTUNITIES

Med Tech students are guaranteed placement in clinical rotations, with multiple placements to experience clinical laboratory science in a variety of settings; in the near future, Med Biotech students will have opportunities at Upstate's Biotech Accelerator and Cord Blood Bank Center.

Recent clinical sites for our CLS students include Bassett Medical Center (Cooperstown), Oswego Hospital, Samaritan Medical Center (Watertown), Laboratory Alliance of Central New York (Liverpool), Syracuse VA Medical Center, Upstate University Hospital and Cancer Center, and the University of Rochester Medical Center.

## LICENSES AND ACCREDITATION

The Clinical Laboratory Sciences bachelor's degree programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences.



## OUTCOMES

### Medical Technology:

Our graduates have an average pass rate of 98 percent on national certification exams; the national average is 78 percent, making Upstate a great choice.

### Medical Biotechnology:

From 2011 to 2014, 100 percent of our graduates were employed within six months or were pursuing additional education.

### Masters in Medical Technology:

The primary purpose of this program is to offer graduate work leading to the Master of Science degree designed for the advancement of knowledge in one of two fields of specialization in medical technology: hematology or microbiology. The program is for certified medical technologists and does not meet requirements for NYS licensure.

*"The faculty is with us every step of the way. It's very comforting. They're extraordinary. They want all of us to succeed. This is what they do. They're not researchers somewhere else doing this on the side."*

— Danielle Safaty, Class of 2016

**UPSTATE**  
MEDICAL UNIVERSITY  
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**For more program details or to apply, visit:**

[www.upstate.edu/chp/mt](http://www.upstate.edu/chp/mt) (Medical Technology)

[www.upstate.edu/chp/mb](http://www.upstate.edu/chp/mb) (Medical Biotechnology)