OCCLSA

The Oklahoma Consortium of Clinical Laboratory Science Affiliates is a group of representatives from accredited hospitals and affiliated universities that are involved in the education of medical laboratory scientists. The OCCLSA is prepared to meet the challenges and rewards of the future in medical laboratory science education in order to promote the advancement of knowledge in the field and to prepare capable individuals to perform in clinical laboratories. Its purpose is to bring together the university and accredited hospital faculty involved in the education of medical laboratory scientists and to analyse the instructional curriculum of both the university and accredited hospital based programs.

The Medical Laboratory Scientist

Also referred to as medical technologists or clinical laboratory scientists, medical laboratory scientists have the best of both worlds with the challenges and rewards of a combination of medicine and technology. They are vital health care detectives that perform laboratory testing on patient samples to provide information needed to diagnose or monitor treatment. They uncover and provide laboratory information from laboratory analyses that assist physicians in patient diagnosis and treatment, as well as in disease monitoring or prevention. Examples of common laboratory tests include diagnostic testing for:

- Anemia
- Cancer
- Heart Attacks
- Diabetes
- Strep throat
- Identification of bacteria or viruses that cause infections
- Drugs of abuse
- Infectious mononucleosis
- Blood transfusion compatibility

Sophisticated biomedical instrumentation and technology, computers, microscopes, and methods requiring manual dexterity are used to perform laboratory testing on blood and body fluids. A few duties include operating computerized instruments, identifying abnormal cells, assuring safe transfusion of blood products, culturing and identifying bacteria and viruses, correlating test results with patient’s condition, selecting and evaluating lab equipment, and monitoring the quality of testing. In addition, they consult with other members of the healthcare team, have the ability to relate to people, and demonstrate a commitment to patient care. A variety of disciplines within the profession keeps the field exciting and interesting:

- Clinical Chemistry
- Hematology
- Immunology
- Immunohematology (blood bank/transfusion medicine)
- Microbiology
- Molecular Biology

Is this profession right for you?

- Have a strong interest in science?
- Want a career in health care with minimal patient contact?
- Like challenge and responsibility?
- Like to solve problems?
- Are you a team player?
- Work well under pressure?
- Are you self-motivated?
- Enjoy working with computers and new technology?
- Are you detail-oriented?

Job Prospects

According to the US Bureau of Labor Statistics, the profession is projected to have a 22 percent increase in employment from 2012 to 2022-twice that of all other occupations. Students typically receive one or two job offers in their final semester while doing their clinical internships. Currently there is a shortage in many parts of the U.S. meaning greater job security and employment at higher salaries for graduates.

Earning Potential

The salary for laboratory professionals varies according to their level and geographic location. According to the American Society for Clinical Pathology (ASCP) 2013 Wage Survey of Clinical Laboratories in the United States, the national average is $56,430 per year for medical laboratory scientists and $77,113 per year at the supervisory level. Salaries are higher for those who become managers or lab directors.

Educational Requirements

Medical laboratory scientists complete a baccalaureate degree program that includes in depth courses for each major discipline as well as management and education courses. Such courses are offered through a hospital-based program that provides the senior year for students from affiliated universities. College graduates who meet a program’s prerequisites are also eligible to apply to a medical laboratory science program.

How to become a Medical Laboratory Scientist

1) Medical laboratory scientists (also known as medical technologists or clinical laboratory scientists) must have a B.S. degree in medical laboratory science/medical technology or one of the life sciences.

2) To work as a medical laboratory scientist (MLS), you need to be certified by the Board of Certification (BOC) of the American Society for Clinical Pathology (ASCP) once you have a degree.

3) To be eligible to take the MLS Board of Certification examination, you must complete a clinical internship accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). These programs prepare students with a combination of lectures and clinical rotations in hematology, clinical chemistry, microbiology, mycology, parasitology, immunology, immunohematology (blood bank), and sometimes genetics. Accreditation of medical laboratory science programs by NAACLS ensures that the programs maintain high educational standards.

Contact an OCCLSA member for more information.

Medical Laboratory Science Hospital Programs

3401 West Gore Boulevard
Lawton, OK 73505
Phone: 580-355-8699 ext 4762/3616
FAX: 580-585-5462
Program Director: Stacey Paryag, MPA, AHI(AMT), MLS(ASCP)CM
Email: paryags@ccmhonline.com
Phone: 940-781-3910
Medical Director: Carol Cooke Dittman, M.D.

Mercy

430 North Monte Vista
Ada, OK 74820
Phone: 580-272-1625 or 580-421-1596
FAX: 580-421-1525
Program Director: Leah Babcock, MSHR, MT(ASCP)
Email: leah.babcock@mercy.net
Medical Director: Larry Cartmell, M.D.

Mercy

1011 14th Avenue N.W.
Ardmore, OK 73401
Phone: 580-220-6339
FAX: 580-220-6205
Program Director: Karen Ford, MBA, MT(ASCP)BB
Email: karen.ford@mercy.net
Phone: 580-220-6063
Program Educator: Kari Butler, MLS, AMT
Email: kari.butler@mercy.net
Phone: 580-220-6339

Saint Francis Health System

6161 South Yale Avenue
Tulsa, OK 74136
Phone: 918-494-6342
FAX: 918-494-1497
Program Director: Nathaniel D. Harden, MS, MLS(ASCP)
Email: ndharden@saintfrancis.com
Medical Director: Sigrid Wayne, M.D.

University Affiliates

Oklahoma State University
213 Life Sciences East
Stillwater, OK 74078-3017
Phone: 405-744-9965
FAX: 405-744-6730
Email: dana.hatter@okstate.edu
Advisor: Dana Hatter, M.S.

University of Central Oklahoma
College of Math & Science
Edmond, OK 73034
Phone: 405-974-5733
FAX: 405-974-5726
Email: aewing2@uco.edu
Advisor: Anne Ewing, Ph.D

Cameron University
Department of Biological Sciences
2800 West Gore Boulevard
Lawton, OK 73501-6377
Phone: 580-581-2373
FAX: 580-591-8003
Email: carlag@cameron.edu
Email: loreeg@cameron.edu
Advisor: Carla Guthridge, Ph.D
Loree Gaines, DVM, MPH

East Central University
Department of Biology
Ada, OK 74820
Phone: 580-559-5657
FAX: 580-559-5606
Email: tcluck@ecok.edu
Advisor: Terry Cluck, Ph.D

Southwestern Oklahoma State University
Department of Biological Sciences
Weatherford, OK 73096
Phone: 580-774-3046
FAX: 580-774-7140
Email: arden.aspedon@swosu.edu
Advisor: Arden Aspedon, Ph.D

Northeastern State University
3100 East New Orleans Street
Broken Arrow, OK 74014
Phone: 918-449-6471
Email: ruskosks@nsuok.edu
Advisor: Sallie Ruskoski, Ph.D, MT(ASCP)

Oral Roberts University
Biology and Chemistry Department
7777 South Lewis Avenue
Tulsa, OK 74171
Phone: 918-495-6297
Email: hreed@oru.edu
Advisor: Hal Reed, Ph.D

Midwestern State University
Department of Biology
College of Science and Mathematics
3410 Taft Boulevard
Wichita Falls, TX 76310
Phone: 940-397-4523
FAX: 940-397-4831
Email: asma.javed@mwsu.edu
Advisor: Asma Javed, BS, MS, CLS(ASCP)