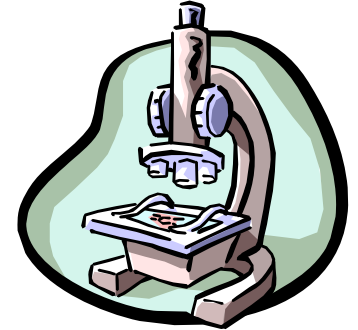




# A Closer Look at Clinical Laboratory Science

## Aptitudes Necessary?

- Ability to perform complex laboratory procedures
- Work well under stress
- Strong problem solving skills
- Can work independently and with others
- Good organizational skills



## What professions are in this field?

- **Clinical laboratory scientist:** analyze human blood, tissues, and fluid; supervise medical laboratory tests; requires bachelor's degree
- **Clinical laboratory technician:** perform routine clinical laboratory tests; requires 2-year associate's degree
- **Cytotechnologist:** prepare and evaluate cell samples; usually requires bachelor's degree + one year of special instruction
- **Histologic technician:** prepare slides of body tissue for microscopic examination; requires hospital-based on-the job training or associate's degree
- **Histotechnologist:** perform complex procedures and analyses used to diagnose, prevent, and treat diseases; requires bachelor's degree and one year of lab experience or completion of histotechnology program
- **Phlebotomist:** draw blood samples by venipuncture, skin puncture, or arterial collection for medical tests or donations; programs are usually 16-34 weeks long



## Where do clinical laboratory scientists work?

- Hospitals
- Clinics
- Research labs
- Public health labs
- Physicians' offices

## **Clinical Laboratory Scientist**

### **Educational Programs:**

(Bachelor)

Angelo State University  
Lamar University  
Midwestern State University  
Prairie View A&M University  
Sam Houston State University  
Stephen F. Austin State University  
Tarleton State University  
Texas A&M University  
Texas Southern University  
Texas State University  
Texas Tech University Health Sciences Center  
Texas Woman's University  
University of Houston  
University of North Texas  
University of Texas at Arlington  
University of Texas at Austin  
University of Texas at El Paso  
University of Texas M.D. Anderson Cancer Center  
University of Texas at San Antonio  
University of Texas at Tyler  
University of Texas Health Science Center at San Antonio  
University of Texas Medical Branch at Galveston  
University of Texas Southwestern Medical Center at Dallas  
West Texas A&M University

### **Professional Associations**

[www.ascls.org](http://www.ascls.org)

National Accrediting Agency for Clinical Laboratory Sciences

[www.naacls.org](http://www.naacls.org)

American Society of Clinical Pathologists

[www.ascp.org](http://www.ascp.org)

## **Clinical Laboratory Technician**

### **Educational Programs:**

(Associate)

Alamo Community College  
Amarillo College  
Austin Community College  
Central Campus – San Jacinto College District  
Central Texas College District  
Dallas County Community College District  
Del Mar College  
El Centro College – Houston Community College System  
El Paso County Community College District  
Grayson County College  
Kilgore College  
Lamar State College - Orange  
Laredo Community College  
McLennan Community College  
Navarro College  
Odessa College  
Temple College

Texas A&M University – Kingsville

Tyler Junior College

University of Texas Brownsville

Victoria College

Wharton County Junior College

### **Professional Associations:**

American Society of Clinical Pathologist

[www.ascp.org](http://www.ascp.org)

## **Cytotechnologist**

### **Educational Programs:**

(Certificate)

Brooke Army Medical Center – San Antonio  
University of North Texas  
University of Texas Health Science Center at San Antonio  
University of Texas M.D. Anderson Cancer Center – Houston

### **Professional Associations:**

American Society for Cytotechnology

[www.asct.com](http://www.asct.com)

American Society of Cytopathology

[www.cytopathology.org](http://www.cytopathology.org)

American Society of Clinical Pathologist

[www.ascp.org](http://www.ascp.org)

## **Histologic Technician/Histotechnologist**

### **Educational Programs:**

(Certificate)

Brooke Army Medical Center Hospital – San Antonio  
St. Luke's Episcopal Hospital – Houston  
Methodist Hospital – Houston  
Seton Medical Center – Austin  
University of Texas M.D. Anderson Cancer Center – Houston

### **Professional Associations:**

American Society of Clinical Pathologist

[www.ascp.org](http://www.ascp.org)

National Society for Histotechnology

[www.nsh.org](http://www.nsh.org)

## **Phlebotomist**

### **Educational Programs:**

(Certificate)

Angelina College  
Austin Community College  
Central Texas College  
Collin County Community College  
Sam Houston State University  
Wharton County Junior College  
San Jacinto College

### **Professional Associations:**

American Society of Phlebotomy Technicians, Inc.

[www.aspt.org](http://www.aspt.org)

National Phlebotomy Association

[www.sept.com/whoisnpa.htm](http://www.sept.com/whoisnpa.htm)

American Society of Clinical Pathologist

[www.ascp.org](http://www.ascp.org)