

CLINICAL LABORATORY SCIENCE



Individuals working in Laboratory Science use equipment and technology to collect and prepare blood, tissue, and body fluids. They perform laboratory tests, which provide important information in the diagnosis of disease.

Careers within this section include:

Clinical Laboratory Technician

Cytotechnologist

Histotechnologist/Histotechnician

Medical Technologist

Phlebotomist



Clinical Laboratory Technician

What would I do?

To aid in the diagnosis and treatment of diseases, Clinical Laboratory Technicians (CLTs) perform routine laboratory tests on blood, tissue, and body fluids using laboratory instruments such as microscopes and computers. CLTs collect, type, and group blood, and stain slides. Also, CLTs report lab results to other medical personnel, maintain laboratory records, and work with analytical instruments.

Clinical Laboratory Technicians may specialize in one of five areas: blood banking, chemistry, hematology, immunology, or microbiology.

Where would I work?

Clinical Laboratory Technicians work in hospitals, reference laboratories, and research laboratories. They may also work in physicians' offices, nursing homes, pharmaceutical companies, and universities.

What would I earn?

\$39,000–54,000

What do I need to know?

Clinical laboratory scientists must complete four years of college including clinical education leading to a baccalaureate degree. Certification exams are voluntary, although most employers prefer certification through one of three agencies: the Board of Registry of the American Society of Clinical Pathologists, the National Certification Agency for Medical Laboratory Personnel or the American Medical Technologists (AMT).

What schools can I attend?

New Hampshire Community Technical College -
Claremont

Where can I find more information?

American Medical Technologists
10700 West Higgins Road
Suite 150
Rosemont, IL 60018
(847) 823-5169
(800) 275-1268
www.amt1.com

American Society for Clinical Laboratory Science
6701 Democracy Boulevard, Suite 300
Bethesda, MD 20817
(301) 657-2768
www.ascls.org

American Society for Clinical Pathology Board of
Registry
33 W. Monroe Street, Suite 1600
Chicago, IL 60612
(312) 541-4999
(800) 267-2727
www.ascp.org

National Accrediting Agency for Clinical Laboratory
Sciences
8410 W. Bryn Mawr Avenue, Suite 670
Chicago, IL 60631
(773) 714-8880
www.naacls.org

Cytotechnologist

What would I do?

Cytotechnologists are specially trained laboratory technologists who specialize in the microscopic study of cells. Using subtle clues in the cells themselves (changes in size, shape, structure and pattern) cytotechnologists determine the presence or absence of specific diseases and determine which cases warrant further review by a pathologist. Cytotechnologists are involved in the diagnosis of cancer, precancerous lesions, benign tumors and infectious processes from a variety of body sites.

Where would I work?

Cytotechnologists work in hospitals, private laboratories, research facilities, educational institutions, and government facilities.

What would I earn?

\$40,700–52,000

What do I need to know?

Most Cytotechnologists earn a four-year bachelor's degree in Cytotechnology. Some students with a science-related college degree (such as biology) may go on to gain an additional year of clinical training in

Cytotechnology at an accredited school or hospital. Cytotechnologists become certified by taking the national registry examination given by the American Society for Clinical Pathology (ASCP).

What schools can I attend?

At the current time there are no academic institutions in New Hampshire offering a Cytotechnology Program. In the past, New Hampshire students have attended out-of-state schools such as Berkshire Medical Center in Pittsfield, MA, or Fletcher Allen Health Care in Burlington, VT.

Where can I find more information?

American Society for Clinical Pathology
Board of Registry
2100 West Harrison Street
Chicago, IL 60612
(312) 738-1336
www.ascp.org

American Society of Cytopathology
400 West 9th Street, Suite 201
Wilmington, DE 19801
(302) 429-8802
www.cytopathology.org

American Society for Cytotechnology
1500 Sunday Drive, Suite 102
Raleigh, NC 27607
(919) 787-5181
(800) 948-3947
www.asct.com

Histotechnologist/Histotechnician

What would I do?

Histotechnologists (HTLs) and Histotechnicians (HTs) prepare tissue slides for microscopic examination to be used in diagnosis, research, or teaching. Slides are prepared by freezing and cutting tissues, mounting them on slides, and dyeing them to emphasize the details. Histotechnologists perform more complicated tasks than Histotechnicians, and may serve as supervisors or teachers.

Where would I work?

Most HTs and HTLs work in hospital laboratories, but others may work in doctor's offices, research laboratories, pharmaceutical companies, or government agencies.

What would I earn?

\$31,000–41,000

What do I need to know?

Histotechnicians need clinical education in a histotechnician (HT) program accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) or an associate's degree from a community college and training at a hospital.

Histotechnologists first obtain a bachelor's degree and then complete a year of additional laboratory experience. They may also complete an accredited histotechnology program.

Certification for both positions may be required and can be obtained after passing a national exam available through the American Society for Clinical Pathologists.

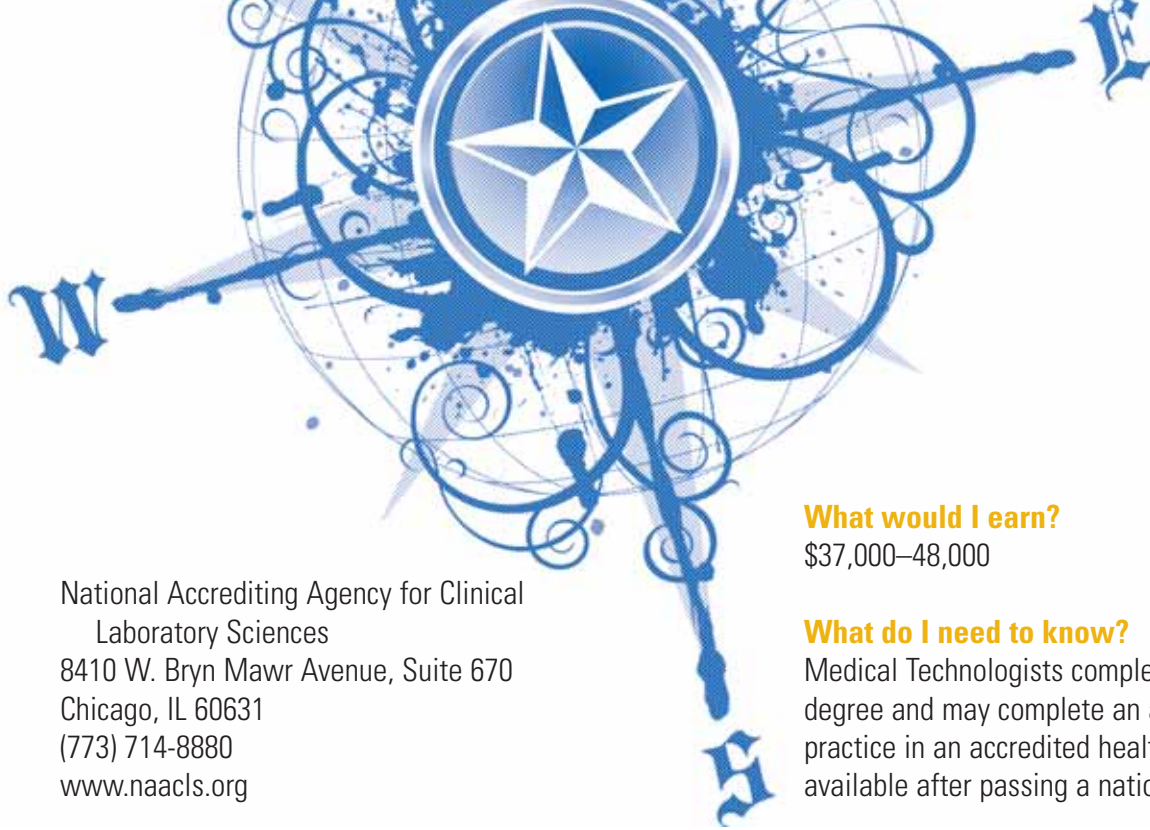
What schools can I attend?

At the current time there are no academic institutions in New Hampshire offering a program for Histotechnologists or Histotechnicians. In the past, New Hampshire students have attended out-of-state schools such as State University of New York in Cobleskill, NY.

Where can I find more information?

American Society for Clinical Laboratory Science
6701 Democracy Boulevard, Suite 300
Bethesda, MD 20817
(301) 657-2768
www.ascls.org

American Society for Clinical Pathology
Board of Registry
33 West Monroe, Suite 1600
Chicago, IL 60603
(312) 541-4999
(800) 267-2727
www.ascp.org



National Accrediting Agency for Clinical
Laboratory Sciences
8410 W. Bryn Mawr Avenue, Suite 670
Chicago, IL 60631
(773) 714-8880
www.naacls.org

National Society for Histotechnology
10320 Little Patuxent Parkway
Columbia, MD 21044
(443) 535-4060
www.nsh.org

Medical Technologist

What would I do?

Medical Technologists (MTs)—also known as Clinical Laboratory Scientists—collect, prepare, and analyze body tissues, blood, and fluids to aid doctors and researchers in the diagnosis of disease. They supervise and train medical laboratory technicians. MTs usually perform more complex tests than medical laboratory technicians.

Laboratories provide opportunities for MTs to specialize in one of many areas, including blood banking, chemistry, hematology, immunohematology, immunology, or microbiology. MTs may work as generalists or supervisors.

Where would I work?

Most Medical Technologists work in hospitals, reference laboratories, or research laboratories. Others may work in physicians' offices, nursing homes, research facilities, pharmaceutical companies, and universities.

What would I earn?

\$37,000–48,000

What do I need to know?

Medical Technologists complete a four-year bachelor's degree and may complete an additional year of clinical practice in an accredited health facility. Certification is available after passing a national competency exam.

What schools can I attend?

University of New Hampshire

Where can I find more information?

American Medical Technologists
10700 West Higgins Road, Suite 150
Rosemont, IL 60018
(847) 823-5169
(800) 275-1268
www.amt1.com

American Society for Clinical Laboratory Science
6701 Democracy Boulevard, Suite 300
Bethesda, MD 20817
(301) 657-2768
www.ascls.org

American Society for Clinical Pathology
Board of Registry
33 West Monroe, Suite 1600
Chicago, IL 60603
(312) 541-4999
www.ascp.org

College of American Pathologists
325 Waukegan Road
Northfield, IL 60093
(800) 323-4040
www.cap.org

National Accrediting Agency for Clinical
Laboratory Sciences
8410 W. Bryn Mawr Avenue, Suite 670
Chicago, IL 60631
(773) 714-8880
www.naacls.org

Phlebotomist

What would I do?

Phlebotomists collect and process blood to be analyzed in a laboratory. They are trained in laboratory safety and must adhere to strict policies and procedures. Phlebotomists may perform special waived laboratory tests such as activated clotting times or point of care glucose testing, or the collection of and throat culture samples. They are the first line of contact the patient has with the laboratory personnel so compassion and empathy for the patient are very important skills. Clerical duties and using computerized systems are a part of their job and attention to detail is critical.

Where would I work?

Phlebotomists work in hospital or private laboratories, physicians' offices, blood banks, insurance companies and home health agencies.

What would I earn?

\$22,776–27,976

What do I need to know?

Phlebotomists complete either on-the-job training or a formal phlebotomy program, which lasts four to eight months. Certification is available through many national credentialing associations; listed on this page are the most recognized associations.

What schools can I attend?

Health Career Training Associates
New Hampshire Community Technical College -
Claremont
New Hampshire Community Technical College -
Manchester

Where can I find more information?

American Medical Technologists
710 Higgins Road
Park Ridge, IL 60068
(847) 823-5169
(800) 275-1268
www.amt1.com

American Society for Clinical Pathology
Board of Registry
2100 West Harrison Street
Chicago, IL 60612
(312) 738-1336
www.ascp.org

American Society of Phlebotomy Technicians
PO Box 1831
Hickory, NC 28603
(828) 327-3000
www.aspt.org

National Accrediting Agency for
Clinical Laboratory Services
8410 W. Bryn Mawr Avenue, Suite 670
Chicago, IL 60631
(773) 714-8880
www.naacls.org

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For more information regarding positions, requirements, or
obtaining and submitting an application contact:
New Hampshire Hospital, Human Resources
36 Clinton Street
Concord, NH 03301
603.271.5855 (tel) 603.271.5845 (fax)