

Angela Tarrant MT(ASCP) SM cm

Faculty Medical Laboratory  
Technician Program  
Otero Junior College

**Sorry, sir, we don't have the facilities for a CAT scan, but we can certainly get you a lab report**



# BUILDING A MEDICAL LABORATORY TECHNICIAN PROGRAM FROM THE GROUND UP



Why this program and  
why Otero Junior College?



In 1970 there were 791 MT programs. By 2003 about 70 percent of these programs had closed.

The Clinical Laboratory Workforce: The Changing Picture of Supply , Demand, Education, and Practice, US Department of Health and Human Services 2005

30% of individual laboratorian respondents plan to leave the workforce within the next 4 years.

25% of laboratory workers are older than 55 years.



Otero Junior College serves three rural, economically depressed counties in southeastern Colorado.

Just over 33% of all service area residents are of Hispanic descent and 38% live below the poverty level.

The region had an unemployment rate of 8.67% in 2013, compared to a state unemployment rate of 6.1% during the same period.



78% of service area residents have attained a high school diploma, compared with nearly 89% state-wide and 85% nationally.















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Audrey Dehdouh-Berg, M.Ed  
Director of Resource  
Development/Grant Management



Elizabeth Huff MS MT(ASCP)SM

Director for the Program

Cathy Bollacker  
MT(ASCP)

Phlebotomy  
Director

Medical  
Laboratory  
Curriculum  
Designer



Lavona Tyskca MA

Career Coach



# PHLEBOTOMY CERTIFICATE

The Medical Laboratory  
Program includes an optional  
Phlebotomy Certificate.

# NAACLS Accredited Program

- ▣ Achieved Accreditation by National Accrediting Agency for the Clinical Laboratory Sciences on April 30, 2014
- ▣ Awarded Initial Approval for Four Years



# Phlebotomy Certificate

- ▣ Two semester program
  - MLT 131 Introduction to Hematology
  - HPR Phlebotomy – requires 100 vein punctures and 100 hours of clinical time

# Phlebotomy Wage Statistic

Median wages (2012)	\$14.29 hourly, \$29,730 annual
Employment (2012)	101,000 employees
Projected growth (2012-2022)	Much faster than average (22% or higher)
Projected job openings (2012- 2022)	46,400
Top industries (2012)	<u><a href="#">Health Care and Social Assistance</a></u>



National Data Source: [Bureau of Labor Statistics, Occupational Employment Statistics Survey](#)  
State Data Source: [Colorado Labor Market Information](#)

# Medical Laboratory Technician Program

- ▣ 5 Semesters
- ▣ 451 hours of clinical internships
- ▣ Theory Classes are hybrid format with laboratories stacked on 2 days to accommodate working adults and commuters.

# Accreditation

We just received word yesterday that our preliminary report has been accepted by NAAACLS. As soon as they receive our self-study, we will obtain serious status and our students can take their board exams.

# MLT Wage Statistics

Median wages (2012)	\$17.90 hourly, \$37,240 annual
Employment (2012)	162,000 employees
Projected growth (2012-2022)	Much faster than average (22% or higher)
Projected job openings (2012-2022)	90,200
Top industries (2012)	<u><a href="#">Health Care and Social Assistance</a></u>

National Data Source: [Bureau of Labor Statistics, Occupational Employment Statistics Survey](#)

State Data Source: [Colorado Labor Market Information](#)



# MEDICAL LABORATORY TECHNICIAN

Associate of Applied Science

FOR MORE INFORMATION,  
CONTACT:

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[angela.tarrant@ojc.edu](mailto:angela.tarrant@ojc.edu)

# MEDICAL LABORATORY TECHNICIAN

Associate of Applied Science

## ABOUT THE PROGRAM

The Medical Laboratory Technician (MLT) program at Otero Junior College is designed to prepare qualified laboratory professionals for entry-level employment in:

- hospitals
- outpatient clinics
- private medical laboratories.

Students will prepare for a career in Medical Laboratory Technology through online/hybrid formats, classroom laboratory practice, and supervised clinical experience. They will complete classes in general education along with Hematology, Clinical Chemistry, Clinical Microbiology, Immunology/Immunochemistry, Urinalysis, and Parasitology/Mycology. The program is designed to allow students to graduate with an AAS degree in two years. Three semesters will be spent at the OJC campus and two semesters will be partially spent in clinical rotations at an affiliated clinical facility.

Upon successful completion of the program, graduates are eligible to take national examinations to become certified Medical Laboratory Technicians.

An optional Phlebotomy certificate can be obtained by completing the Intro to Hematology course plus the Phlebotomy course.

## ACCREDITATION INFORMATION

The OJC MLT program is seeking accreditation by the National Accreditation Agency for Clinical Laboratory Science (NAACLS), 5600 North River Road, Suite 720, Rosemont, Illinois 60018.

Full accreditation of the OJC MLT program will be completed after the first class graduates and a site visit is conducted by the NAACLS accreditation team.

## FINANCIAL AID INFORMATION

Financial aid is awarded through grants, work-study, loans and scholarships. Students may apply for financial aid by filling out the Free Application for Federal Student Aid (FAFSA) at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

**For more information on funding your education, contact**

**Angela Benfatti**

Director of Financial Aid

719-384-6834

[angela.benfatti@ojc.edu](mailto:angela.benfatti@ojc.edu)

### Gainful Employment Information

The US Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation". You may access Gainful Employment information for a career as a Medical Laboratory Technician at: [www.ojc.edu/dpMedLabTech.aspx](http://www.ojc.edu/dpMedLabTech.aspx)



WE'RE FOCUSED ON YOUR FUTURE!

## Otero Junior College

1802 Colorado Ave.

La Junta, Colorado 81050

719-384-6831 [www.ojc.edu](http://www.ojc.edu)

[www.ojc.edu/dpMedLabTech.aspx](http://www.ojc.edu/dpMedLabTech.aspx)

The College prohibits and will not tolerate discrimination or harassment that violates federal or state law, Board Policy 3-120 or Board Policy 4-120. The College does not discriminate on the basis of sex/gender, race, color, age, creed, national or ethnic origin, physical or mental disability, veteran status, pregnancy status, religion or sexual orientation. The College complies with Titles VI and VII of the Civil Rights Act of 1964, the Civil Rights Act of 1991, the Education Amendments of 1972 (Title IX), the Age Discrimination in Employment Act, the Rehabilitation Act of 1973, the Americans with Disabilities Act, Pregnancy Discrimination Act of 1978, Vietnam Era Veterans Readjustment Assistance Act of 1974, Executive Order 11246, and sections 241-241-301, C.R.S. et seq. Inquiries should be directed to: Affirmative Action Officer, Otero Junior College, 1802 Colorado Ave. Macdonald Hall Room 221, La Junta, CO 81050 719-384-6824.

## MEDICAL LABORATORY TECHNICIAN ASSOCIATE OF APPLIED SCIENCE



### FIRST YEAR

#### Spring Semester

ENG 121 English Composition I .....	3
CIS 118 Intro to PC Applications .....	3
MLT 131 Intro to Hematology .....	2
BIO 111 Biology .....	5
MAT 121 College Algebra .....	4

#### Summer Semester

*HPR 112 Phlebotomy .....	4
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#### Fall Semester

BIO 201 Anatomy & Physiology I .....	4
COM 125 Interpersonal Communication or COM 115 Public Speaking .....	3
MLT 132 Hematology II .....	4
CHE 111 General College Chemistry .....	5

### SECOND YEAR

#### Spring Semester

BIO 202 Anatomy & Physiology II .....	4
MLT 231 Clinical Microbiology .....	4
MLT 141 Immunology/Immunochemistry .....	4
MLT 241 Intro to Clinical Chemistry .....	2
MLT 142 Urinalysis .....	2

#### Summer Semester

MLT 232 Parasitology/Mycology .....	2
MLT 180 Internship I—Blood Bank .....	1
MLT 282 Internship IV—Microbiology .....	2

#### Fall Semester

MLT 242 Clinical Chemistry II .....	4
MLT 253 Seminar/Comprehensive Exams .....	1
MLT 280 Internship III—Chemistry .....	5
MLT 182 Internship II—Hem., Coag., UA .....	5

## PHLEBOTOMY CERTIFICATE



#### Spring Semester

MLT 131 Intro to Hematology .....	2
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#### Summer Semester

HPR 112 Phlebotomy .....	4
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The Phlebotomy certificate may be obtained by completing the Intro to Hematology course plus the Phlebotomy course.

The OJC Phlebotomy program is designed to prepare qualified phlebotomists for entry level employment. With the successful completion of the two required courses over two semesters, the student will be eligible to take ASCP certification exams.

Phlebotomists work in various healthcare settings such as hospital laboratories, outpatient clinics, corporate laboratory drawing stations, and blood donor facilities.

\*HPR112 is not required to obtain the MLT Associate of Applied Science degree, but is offered to students who may wish to obtain the Phlebotomy Certificate while earning their degree.



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Email us at:  
[Information@ojc.edu](mailto:Information@ojc.edu)

# Labor Market and Workforce Investors.

Many of the local hospitals have laboratory directors who sit on our advisory board.

They advise us on the skills they need to see in the students/future employees.

They allow our student to complete their clinical internships at their sites.



# Clinical Sites

- ▣ Arkansas Valley Regional Med Center, La Junta, CO
- ▣ Prowers Medical Center, Lamar, CO
- ▣ Weisbrod Memorial Hospital, Eads, CO
- ▣ Spanish Peaks Regional Health Center, Walsenburg, CO
- ▣ St Mary Corwin Hospital, Pueblo, CO
- ▣ St. Thomas More, Canon City
- ▣ Heart of the Rockies in Salida, CO
- ▣ Quest Diagnostics, Pueblo, CO



# WHAT IS A MEDICAL LABORATORY TECHNICIAN?

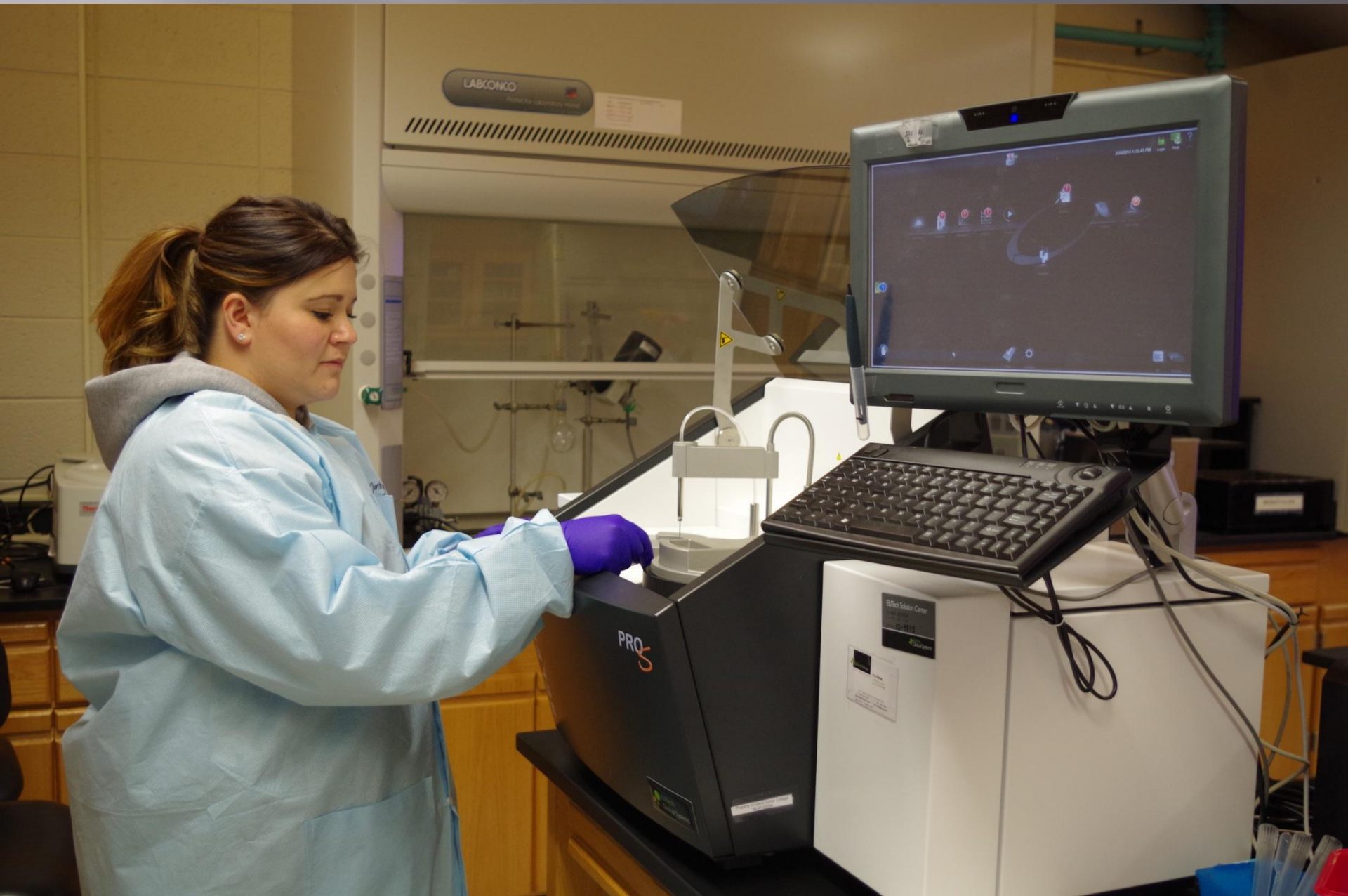
- ▣ Yes, we draw blood, but we do so much more.





# Chemistry

- ▣ Medical Technologist do a lot of chemical analysis on blood.
- ▣ We check glucose, salt balance, cholesterol,
- ▣ We also check hormones and enzymes such as those produced during a heart attack and much more.
- ▣ Chemistry involves using very high tech instruments and analyzing the data with computers.

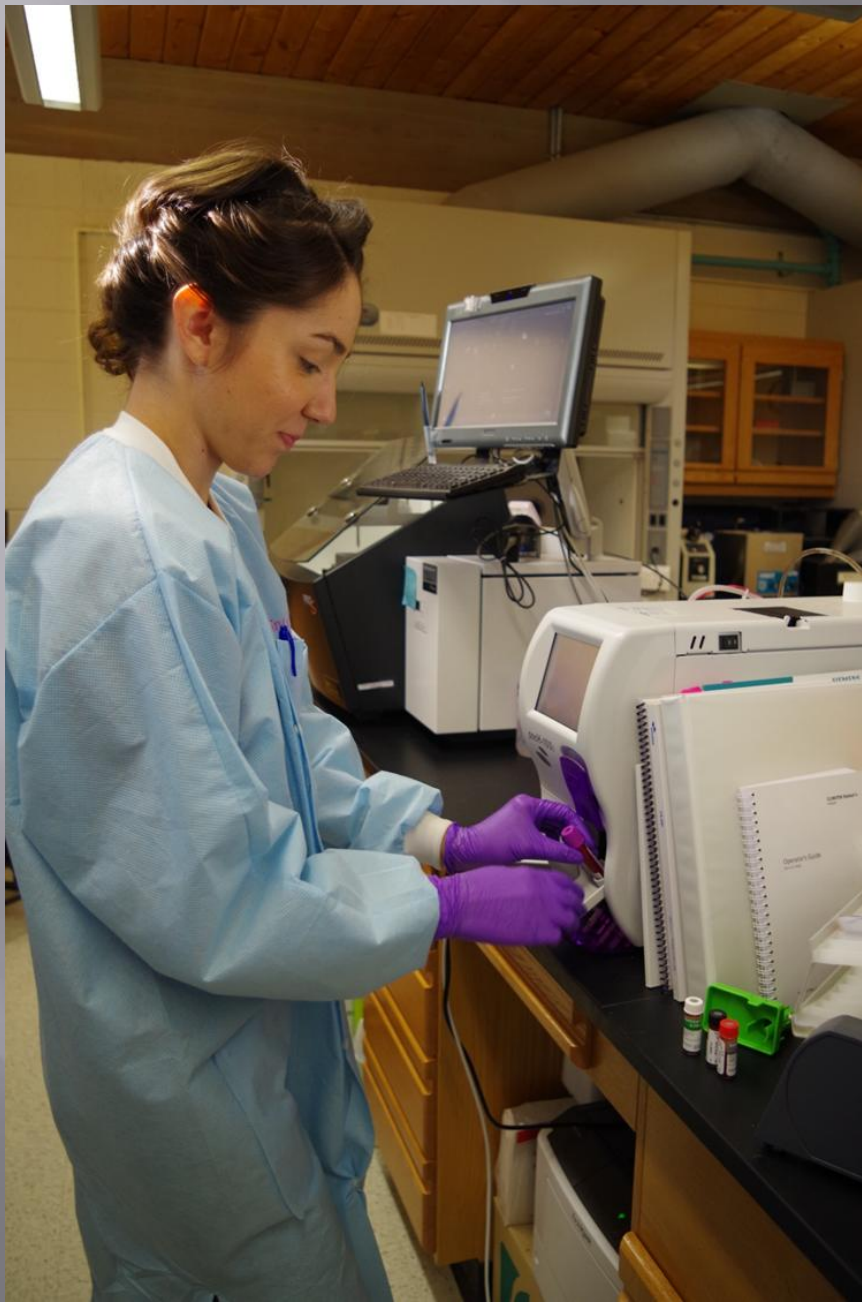






# Hematology

- ▣ We review blood smears and do complete blood counts for White Blood Cells, Red Blood Cells, and platelets.
- ▣ We also do clotting and coagulation tests.



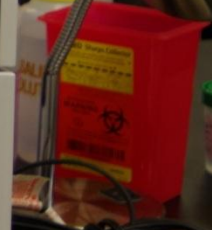
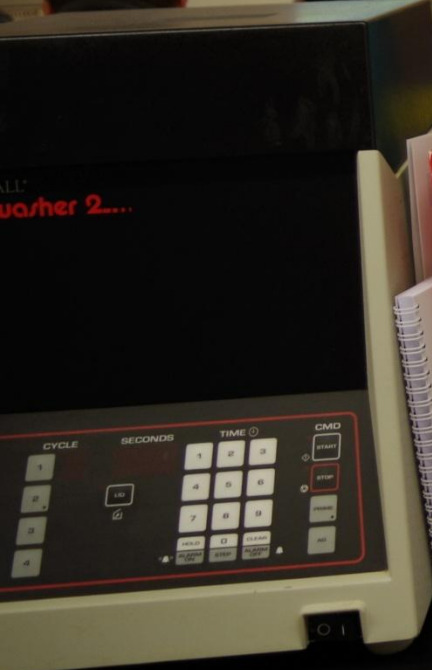


sysmex

CA-600 series

SIEMENS  
Hemostasis Hotline  
1-800-242-3233  
(11150)

Service Manual  
SPINALL Cellanalyzer 2  
CELL COUNTING SYSTEM

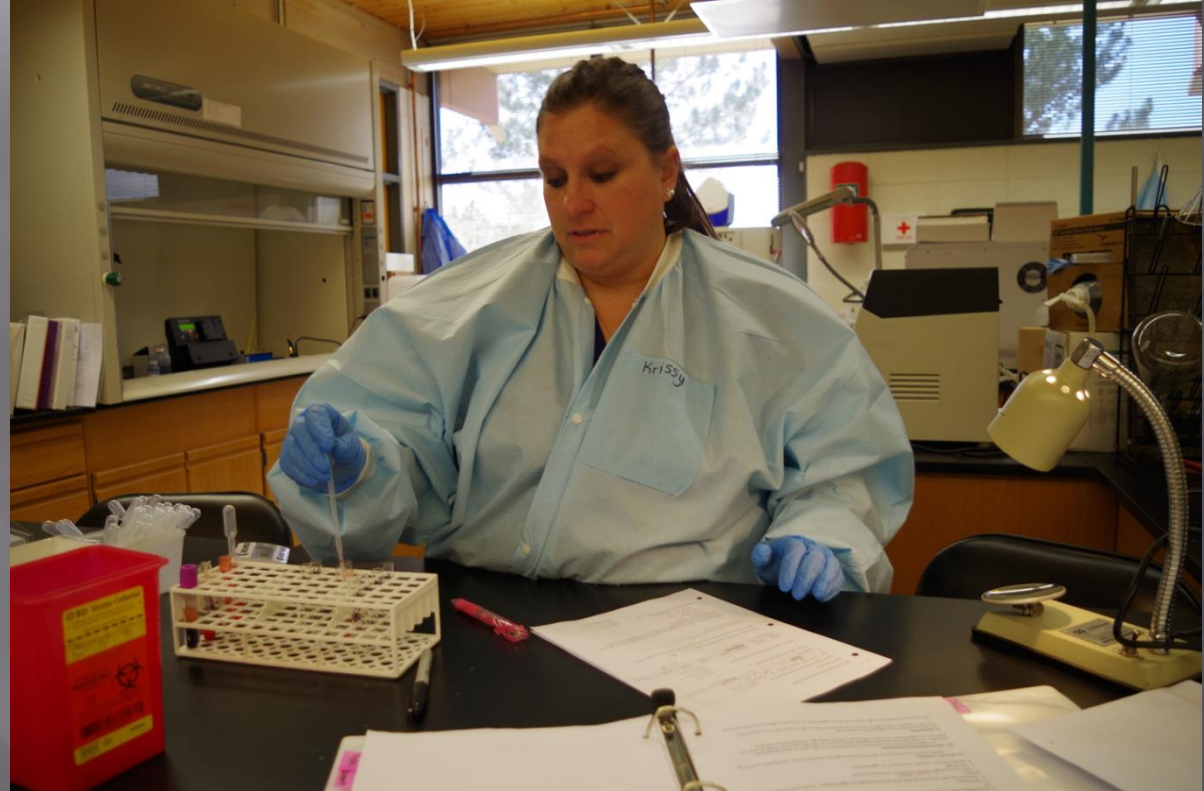


# **We review blood smears for any abnormalities**





We also type blood and crossmatch units for transfusion.



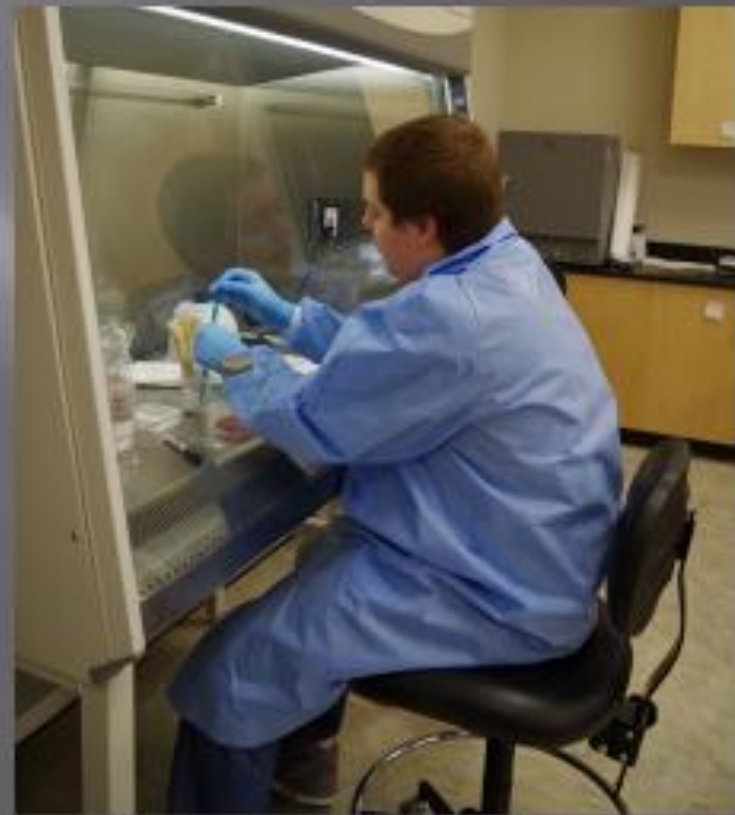


We also run tests on urine.





We grow organisms in Microbiology and then test them to see what antibiotics kill them.



**Our laboratory tests make a real difference in the lives of patients.**

**Our ability to help diagnose disease gives the answers doctors need to diagnose and treat their patients.**

**The MLT program at OJC is committed to preparing students for a career as a Medical Laboratory Technician. With our clinical affiliates and advisors, we are rising to meet the upcoming staff shortages that are happening across the country, especially in our areas.**

My Story is I started collage with little experience of school. I dropped out of high school my junior year with my second child and got my GED. ..I realized I needed to make more money for myself and my kids. I started collage in the fall of 2013...

One, this program is made for people who work or people like me, who have a family at home. The program made it so that classes are usually held one or two days out of the week. This is such a plus in my life I only need a baby sister two days a week...

This program was the best thing for me. I have two more semesters to go. I am so very close to becoming an MLT.I have come from being a disappointment to my family and myself to becoming a collage graduate and a MLT. I have found a career that I love to do and so interested in it. My future would be dull without this amazing opportunity of this program!

