



Mariana Mcdaniel

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SUMMARY

Compassionate Medical Laboratory Scientist with a Bachelor's in Biological Sciences, passionate about delivering laboratory excellence. Adept at interpreting laboratory results and processing blood components, ensuring patient safety through rigorous compliance with quality control protocols. Proficient in using advanced laboratory techniques for antibody screening and compatibility testing. Committed to maintaining high standards of operational efficiency while managing equipment and inventory. Enjoys collaborative environments, bringing strong communication skills and a team-centric approach to achieve shared goals. Eager to contribute to a healthcare setting dedicated to delivering exceptional patient care.

EDUCATION

Bachelor's Degree in Biological Sciences

University of Illinois GPA: 3.8

2026

Chicago, IL

Coursework: Microbiology, Hematology, Biochemistry, Clinical Lab Techniques

TECHNICAL SKILLS

- **Laboratory Equipment:** Flow Cytometer, Centrifuge, Hematology Analyzer
- **Quality Control Methods:** Proficiency Testing, Standard Operating Procedures, Quality Checks
- **Data Analysis Tools:** SPSS, GraphPad Prism, Microsoft Excel
- **Technical Standards:** CLIA, CAP, AABB
- **Cryopreservation Techniques:** Controlled Rate Freezer, Cryovials, Sterile Storage
- **Safety Protocols:** Biohazard Handling, Personal Protective Equipment, Waste Disposal Processes
- **Inventory Management Systems:** Lab Inventory Software, LIMS, Manual Record Keeping
- **Communication Platforms:** Microsoft Teams, Email, Laboratory Record Management System
- **Research Methodologies:** Experimental Design, Statistical Analysis, Literature Review
- **Technical Writing:** Lab Reports, Research Papers, Standard Operating Procedures

SKILLS

- Laboratory Techniques
- Antibody Screening
- Inventory Management
- Good Manufacturing Practices
- Blood Component Processing
- Compatibility Testing
- Team Collaboration
- Quality Control
- Technical Troubleshooting
- Research Methodologies

EXPERIENCE

Medical Laboratory Intern

University Research Lab

June 2025 - Present

Chicago, IL

Effective Medical Laboratory Intern supporting clinical laboratory operations. Engaged actively in processing blood specimens and interpreting test results while upholding strict adherence to quality standards. Collaborated with team members to ensure exceptional analytical accuracy and reliability.

- Evaluated and recorded laboratory test results meticulously, ensuring each report complied with established standards.
- Contributed significantly in preparing blood components like red cells and plasma, following rigorous standard operating procedures.
- Conducted thorough compatibility testing and antibody screenings utilizing advanced laboratory machinery.
- Assisted in troubleshooting technical issues related to laboratory instruments, contributing to seamless operations.
- Monitored expiration dates on blood products and maintained robust inventory management to ensure quality compliance.
- Participated actively in ongoing quality assurance initiatives, demonstrating commitment to laboratory excellence.

Capstone Project Developer

Academic Research Project

January 2025 - May 2025

Chicago, IL

Innovative Capstone Project Developer focusing on pioneering research in blood component cryopreservation. Applied fundamental principles of GMP and evaluated diverse techniques for optimal preservation outcomes. Collaboratively resolved project challenges using teamwork and ingenuity.

- Formulated a notable research investigation examining methods for the effective cryopreservation of hematopoietic progenitor cells.

- Implemented sterile handling practices within the lab environment, thus ensuring safety through tightly controlled methodologies.
- Analyzed the success rates of assorted cryopreservation strategies, refining approaches that improved resultant data quality.
- Articulated findings to both faculty mentors and peers, fostering open dialogue on scientific discoveries and research impact.
- Collaborated dynamically with other students, tackling interdepartmental hurdles during the project's lifecycle.
- Earned commendations for diligence in execution and groundbreaking contributions within the laboratory study.

LEADERSHIP & AWARDS

- Dean's List, University of Illinois, 2024-2026
- Recipient of the Academic Excellence Scholarship, 2024

CERTIFICATIONS

- Certified Medical Laboratory Scientist (MLS) 📅 2026
- CPR Certification 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, University of Illinois Medical Laboratory Science Club, 2023-Present
- Volunteer, Community Health Outreach Program, 2024-Present

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST