

Bianca Mueller

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SUMMARY

Compassionate Biomedical Technician with over two years of experience diagnosing and repairing medical devices, excelling in the Infusion and Respiratory sectors. Proven ability to troubleshoot technical issues and enhance service quality through strong communication. Effective mentor who improves junior technicians' skills, leading to collaborative success. Committed to continuous learning and adapting to new technologies while maintaining high levels of professionalism. Passionate about leveraging technical competencies to impact patient outcomes positively and support operational efficiency in healthcare environments.

EXPERIENCE

Biomedical Technician

January 2025 - Present

University Research Lab

Pittsburgh, PA

Supported a diverse suite of biomedical devices focusing on Infusion and Respiratory systems in a university research setting. Engaged with faculty to ensure optimal functioning of equipment and fostered an environment for growth among undergraduate students.

- Diagnosed and repaired an extensive range of biomedical devices, focusing on functionality and reliability.
- Collaborated with faculty members on preventive maintenance tasks, actively ensuring all lab operations remain seamless.
- Mentored and trained undergraduate students on essential technical skills, significantly enhancing their understanding of biomedical technology.
- Created comprehensive training materials for new technicians, streamlining onboarding and competency development.
- Assisted in resolving complex device malfunctions, ultimately contributing to improved lab research productivity.
- Maintained meticulous records of repairs and routine maintenance in the lab database, promoting compliance with safety regulations.

Biomedical Technician Intern

June 2024 - December 2024

TechMed Innovations

Pittsburgh, PA

Gained hands-on experience by assisting senior technicians in diagnosing and servicing various biomedical devices, which solidified foundational knowledge in the field.

- Contributed to troubleshooting efforts alongside experienced technicians, honing diagnostic capabilities.
- Participated in testing and calibrating medical devices, aligning with established operational protocols.
- Offered customer support by addressing technical inquiries, thus fostering positive client relationships.
- Documented repair actions in detail, aiding in the establishment of robust service records for future reference.
- Helped manage inventory levels of medical supplies, ensuring all equipment remained in peak operating condition.
- Engaged in training sessions covering emerging biomedical technology trends, utilizing newfound knowledge to enhance service effectiveness.

LEADERSHIP & AWARDS

- Dean's List, University of Pittsburgh (2024, 2025)
- Recipient of the Biomedical Engineering Scholarship (2024)

EDUCATION

Bachelor's Degree in Biomedical Engineering

2026

University of Pittsburgh GPA: 3.7

Pittsburgh, PA

Coursework: Medical Device Design, Bioinformatics, Electronic Health Records, Clinical Engineering

CERTIFICATIONS

- Certified Biomedical Equipment Technician (CBET) 2026
- Basic Life Support (BLS) 2025

TECHNICAL SKILLS

- Diagnostic Tools:** Oscilloscope, Multimeter, Calibrator
- Data Management Software:** Microsoft Access, SQLite, OpenEMR
- Biomedical Technologies:** Infusion Pumps, Ventilators, Enteral Feeding Devices
- Testing Standards:** ISO 13485, IEC 60601, FDA Guidelines
- Communication Tools:** Email, Teams, Phone Systems

- **Maintenance Protocols:** Routine Checks, Safety Inspections, QC Analysis
- **Training Methodologies:** Hands-on Workshops, E-Learning Modules, Onboarding Sessions
- **Emergency Procedures:** Crisis Management Plans, Incident Response Strategies, Emergency Training
- **Process Improvement Techniques:** Lean Principles, Six Sigma, Root Cause Analysis
- **Regulatory Compliance Standards:** HIPAA, JCAHO, CMS Regulations

SKILLS

- Technical Troubleshooting
- Database Management
- Equipment Calibration
- Time Management
- Biomedical Device Repair
- Team Mentorship
- Fluidics Systems Understanding
- Documentation Skills
- Preventive Maintenance
- Problem Solving
- Safety Compliance
- Client Relationship Building
- Customer Communication
- Electronics Knowledge
- Conflict Resolution
- Pneumatic Systems Familiarity

PROFESSIONAL AFFILIATIONS

- Member, Biomedical Engineering Society, University of Pittsburgh
- Volunteer, Health Outreach Program, Pittsburgh

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST