



Elena Klein

Bioprocess Research Technician

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SUMMARY

Innovative and driven Bioprocess Research Technician with extensive training in biology and bioengineering. Hands-on experience operating bioreactors and conducting analytical tests. Passionate about contributing to environmental biotechnology efforts through collaboration and effective research. Known for a commitment to safety and quality assurance, while performing DNA isolation and qPCR analyses with precision. Dedicated team player who thrives in a collaborative setting, adept at managing data archiving and sample management, ensuring accuracy and reliability in experimental results. Eager to support impactful scientific projects alongside a motivated team.

EDUCATION

Bachelor of Science in Biology

University of Illinois 🎓 GPA: 3.8 📅 2026 📍 Champaign, IL

Coursework: Microbiology, Bioengineering, Genetics, Environmental Science

TECHNICAL SKILLS

- **Bioreactor Technologies:** Batch Systems, Continuous Culture, Fermentation Processes
- **Analytical Instrumentation:** HPLC, GC, UV-Vis Spectroscopy
- **Molecular Biology Techniques:** qPCR, DNA Extraction, Gel Electrophoresis
- **Safety Procedures:** Hazard Assessments, Chemical Handling, Waste Disposal
- **Data Management Tools:** Microsoft Excel, SPSS, Laboratory Information Systems
- **Project Collaboration Tools:** Trello, Asana, JIRA
- **Statistical Analysis Software:** R, Python, SAS
- **Communication Platforms:** Slack, Microsoft Teams, Zoom
- **Educational Resources:** PubMed, Google Scholar, Academic Journals
- **Quality Management Standards:** ISO 9001, Good Laboratory Practices, CAAB

EXPERIENCE

Biological Research Intern

University Research Lab 📅 June 2025 - Present 📍 Chicago, IL

Supports diverse biological research projects through hands-on experience in laboratory settings. Focused on operating bioreactors, maintaining laboratory equipment, and contributing to reliable data collection and analysis.

- Operated and monitored bioreactors and fermenters for environmental applications, ensuring compliance with safety protocols.
- Conducted literature reviews supporting research initiatives, summarizing findings effectively for team presentations.
- Collected and analyzed samples, actively contributing to pilot-scale experiments that influenced decision-making.
- Performed DNA isolation and prepared samples for qPCR analysis, enhancing overall laboratory efficiency.
- Utilized spectrophotometry and chromatography for analytical testing, providing precise results beneficial to ongoing research pursuits.
- Collaborated with colleagues to streamline laboratory operations, manage samples, and organize data accurately.

Undergraduate Research Assistant

Academic Research Group 📅 September 2023 - May 2025 📍 Evanston, IL

Contributed to academic research projects through operational support and data handling. Enhanced laboratory protocol adherence while engaging in various biotechnology tasks.

STRENGTHS

- 🔬 **Analytical Testing Expertise**
Skilled in operating complex analytical instruments, enabling accurate testing and evaluation of samples across numerous projects.
- 💬 **Research Communication**
Demonstrated ability to present intricate data findings clearly, promoting project clarity and securing stakeholder engagement.
- 👥 **Team Collaboration**
Fostered strong relationships within multidisciplinary teams, driving successful outcomes through collective problem-solving.
- ⚠️ **Laboratory Safety Compliance**
Proactive approach towards health and safety initiatives, advocating for rigorous standards in laboratory environments across projects.
- 📁 **Sample Management Skills**
Efficiently managed sample collection, organization, and archival processes, ensuring functionally aligned laboratory efforts.

SKILLS

Biotechnology

Bioreactor Operations

Analytical Testing

Molecular Biology Data Analysis

Laboratory Safety

Technical Documentation

Health and Safety Practices

Laboratory Equipment Maintenance

Collaboration Problem-Solving

Experimental Design

Quality Assurance

Research Methodologies

Health Assessments

Documentation

LANGUAGES

English Native

Spanish Proficient

MY CAREER



● Biological Research Intern at University Research Lab (1.2 Years)

● Undergraduate Research Assistant at Academic Research Group (1.7 Years)

- Assisted with operation of analytical instrumentation such as FT-IR and HPLC systems, gaining valuable technical skills.
- Supported health and safety initiatives by conducting hazard assessments, fostering safe lab practices for all team members.
- Compiled and presented experimental results during weekly meetings, encouraging collaborative communication among peers.
- Engaged in extensive data collection and analysis, furthering project objectives and establishing best practices.
- Developed strong technical documentation skills through clear and detailed reporting of research activities and outcomes.
- Collaborated with faculty and fellow students to refine methodologies and evolve project directions positively.

LEADERSHIP & AWARDS

- Dean's List, University of Illinois, 2024-2026
- Recipient of the Undergraduate Research Scholarship, 2025

CERTIFICATIONS

- Certified in Laboratory Safety Procedures 📅 2025
- Training in Molecular Biology Techniques 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Biology Club
- Volunteer, Environmental Awareness Initiative

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST