

Elena Klein

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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
Coursework: Microbiology, Bioengineering, Genetics, Environmental Science

2026
Champaign, IL

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

SKILLS

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|-------------------------|-------------------------------|------------------------------------|--------------------------|
| • Biotechnology | • Data Analysis | • Laboratory Equipment Maintenance | • Quality Assurance |
| • Bioreactor Operations | • Laboratory Safety | • Collaboration | • Research Methodologies |
| • Analytical Testing | • Technical Documentation | • Problem-Solving | • Health Assessments |
| • Molecular Biology | • Health and Safety Practices | • Experimental Design | • Documentation |

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.

- 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

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST